

# ESO Staff Publications (2021)

## Peer-reviewed publications by ESO scientists

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The list below includes papers that are (co-)authored by ESO authors, with or without use of ESO data. It is ordered alphabetically by first ESO-affiliated author.

- Abdul-Masih, M.**, Sana, H., Hawcroft, C., Almeida, L.A., Brands, S.A., de Mink, S.E., Justham, S., Langer, N., Mahy, L., Marchant, P., et al. , 2021, *Constraining the overcontact phase in massive binary evolution. I. Mixing in V382 Cyg, VFTS 352, and OGLE SMC-SC10 108086*, A&A, 651, A96 [ADS](#)
- Johnston, C., Aimar, N., **Abdul-Masih, M.**, Bowman, D.M., White, T.R., Hawcroft, C., Sana, H., Sekaran, S., Dsilva, K. & Tkachenko, A., 2021, *Characterization of the variability in the O+B eclipsing binary HD 165246*, MNRAS, 503, 1124 [ADS](#)
- Menon, A., Langer, N., de Mink, S.E., Justham, S., Sen, K., Szécsi, D., de Koter, A., **Abdul-Masih, M.**, Sana, H. & Mahy, L., 2021, *Detailed evolutionary models of massive contact binaries - I. Model grids and synthetic populations for the Magellanic Clouds*, MNRAS, 507, 5013 [ADS](#)
- Bonoli, S., Marin-Franch, A., Varela, J., Vázquez Ramió, H., Abramo, L.R., Cenarro, A.J., Dupke, R.A., Vilchez, J.M., Cristóbal-Hornillos, D., González Delgado, R.M., ..., **Abril Ibañez, J.**, et al. , 2021, *The miniJPAS survey: A preview of the Universe in 56 colors*, A&A, 653, A31 [ADS](#)
- Sánchez-Sáez, P., Reyes, I., Valenzuela, C., Förster, F., Eyheramendy, S., Elorrieta, F., Bauer, F.E., Cabrera-Vives, G., Estévez, P.A., Catelan, M., ..., **Abril, J.**, et al. , 2021, *Alert Classification for the ALerCE Broker System: The Light Curve Classifier*, AJ, 161, 141 [ADS](#)
- Gravity Collaboration, **Abuter, R.**, Amorim, A., Bauböck, M., Baganoff, F., Berger, J.P., Boyce, H., Bonnet, H., Brandner, W., Clénet, Y., et al. , 2021, *Constraining particle acceleration in Sgr A\* with simultaneous GRAVITY, Spitzer, NuSTAR, and Chandra observations*, A&A, 654, A22 [ADS](#)
- Gravity Collaboration, **Abuter, R.**, Amorim, A., Bauböck, M., Berger, J.P., Bonnet, H., Brandner, W., Clénet, Y., Dallilar, Y., Davies, R., et al. , 2021, *Detection of faint stars near Sagittarius A\* with GRAVITY*, A&A, 645, A127 [ADS](#)
- Gravity Collaboration, **Abuter, R.**, Amorim, A., Bauböck, M., Berger, J.P., Bonnet, H., Brandner, W., Clénet, Y., Davies, R., de Zeeuw, P.T., et al. , 2021, *Improved GRAVITY astrometric accuracy from modeling optical aberrations*, A&A, 647, A59 [ADS](#)
- Gravity Collaboration, Rodríguez-Coira, G., Paumard, T., Perrin, G., Vincent, F., **Abuter, R.**, Amorim, A., Bauböck, M., Berger, J.P., Bonnet, H., et al. , 2021, *MOLsphere and pulsations of the Galactic Center's red supergiant GCIRS 7 from VLTI/GRAVITY*, A&A, 651, A37 [ADS](#)
- Agliozzo, C.**, Phillips, N., Mehner, A., Baade, D., Scicluna, P., Kemper, F., Asmus, D., de Wit, W.J. & Pignata, G., 2021, *The contribution by luminous blue variable stars to the dust content of the Magellanic Clouds*, A&A, 655, A98 [ADS](#)
- Leto, P., Triglio, C., Krtićka, J., Fossati, L., Ignace, R., Shultz, M.E., Buemi, C.S., Cerrigone, L., Umana, G., Ingallinera, A., ..., **Agliozzo, C.**, et al. , 2021, *A scaling relationship for non-thermal radio emission from ordered magnetospheres: from the top of the main sequence to planets*, MNRAS, 507, 1979 [ADS](#)
- Pennock, C.M., van Loon, J.T., Filipović, M.D., Andernach, H., Haberl, F., Kothes, R., Lenc, E., Rudnick, L., White, S.V., **Agliozzo, C.**, et al. , 2021, *The ASKAP-EMU Early Science Project: 888 MHz radio continuum survey of the Large Magellanic Cloud*, MNRAS, 506, 3540 [ADS](#)
- Ding, X., Treu, T., Birrer, S., **Agello, A.**, Sluse, D., Fassnacht, C., Auger, M.W., Wong, K.C., Suyu, S.H., Morishita, T., et al. , 2021, *Testing the evolution of correlations between supermassive black holes and their host galaxies using eight strongly lensed quasars*, MNRAS, 501, 269 [ADS](#)
- Duarte-Cabral, A., Colombo, D., Urquhart, J.S., Ginsburg, A., Russeil, D., Schuller, F., Anderson, L.D., Barnes, P.J., Beltrán, M.T., Beuther, H., ..., **Agurto, C.**, et al. , 2021, *The SEDIGISM survey: molecular clouds in the inner Galaxy*, MNRAS, 500, 3027 [ADS](#)
- Costantin, L., Pérez-González, P.G., Méndez-Abreu, J., Huertas-Company, M., Dimauro, P., **Alcalde-Pampliega, B.**, Buitrago, F., Ceverino, D., Daddi, E., Domínguez-Sánchez, H., et al. , 2021, *A Duality in the Origin of Bulges and Spheroidal Galaxies*, ApJ, 913, 125 [ADS](#)
- Barna, B., Szalai, T., Jha, S.W., Camacho-Neves, Y., Kwok, L., Foley, R.J., Kilpatrick, C.D., Coulter, D.A., Dimitriadis, G., Rest, A., ..., **Anderson, J.P.**, et al. , 2021, *SN 2019muj - a well-observed Type Ia supernova that bridges the luminosity gap of the class*, MNRAS, 501, 1078 [ADS](#)
- Boselli, A., Lupi, A., Epinat, B., Amram, P., Fossati, M., **Anderson, J.P.**, Boissier, S., Boquien, M., Consolandi, G., Côté, P., et al. , 2021, *A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE). IX. The effects of ram pressure stripping down to the scale of individual HII regions in the dwarf galaxy IC 3476*, A&A, 646, A139 [ADS](#)
- Castrillo, A., Ascasibar, Y., Galbany, L., Sánchez, S.F., Badenes, C., **Anderson, J.P.**, Kuncarayakti, H., Lyman, J.D. & Díaz, A.I., 2021, *The delay time distribution of supernovae from integral-field spectroscopy of nearby galaxies*, MNRAS, 501, 3122 [ADS](#)
- Clark, P., Maguire, K., Bulla, M., Galbany, L., Sullivan, M., **Anderson, J.P.** & Smartt, S.J., 2021, *Probing the progenitors of Type Ia supernovae using circumstellar material interaction signatures*, MNRAS, 507, 4367 [ADS](#)
- Dong, Y., Valenti, S., Bostroem, K.A., Sand, D.J., Andrews, J.E., Galbany, L., Jha, S.W., Eweis, Y., Kwok, L., Hsiao, E.Y., ..., **Anderson, J.P.**, et al. , 2021, *Supernova 2018cuf: A Type IIP Supernova with a Slow Fall from Plateau*, ApJ, 906, 56 [ADS](#)
- Gutiérrez, C.P., Bersten, M.C., Orellana, M., Pastorello, A., Ertini, K., Folatelli, G., Pignata, G., **Anderson, J.P.**, Smartt, S., Sullivan, M., et al. , 2021, *The double-peaked Type Ia supernova 2019cad: another SN 2005bf-like object*, MNRAS, 504, 4907 [ADS](#)
- Hinkle, J.T., Holoien, T.W.S., Auchettl, K., Shappee, B.J., Neustadt, J.M.M., Payne, A.V., Brown, J.S., Kochanek, C.S., Stanek, K.Z., Graham, M.J., ..., **Anderson, J.P.**, et al. , 2021, *Discovery and follow-up of ASASSN-19dj: an X-ray and UV luminous TDE in*

- an extreme post-starburst galaxy*, MNRAS, 500, 1673 [\[ADS\]](#)
- Hiramatsu, D., Howell, D.A., Moriya, T.J., Goldberg, J.A., Hosseinzadeh, G., Arcavi, I., **Anderson, J.P.**, Gutiérrez, C.P., Burke, J., McCully, C., et al. , 2021, *Luminous Type II Short-Plateau Supernovae 2006Y, 2006ai, and 2016egz: A Transitional Class from Stripped Massive Red Supergiants*, ApJ, 913, 55 [\[ADS\]](#)
- Lu, J., Ashall, C., Hsiao, E.Y., Hoeflich, P., Galbany, L., Baron, E., Phillips, M.M., Contreras, C., Burns, C.R., Suntzeff, N.B., ..., **Anderson, J.P.**, et al. , 2021, *ASASSN-15hy: An Underluminous, Red O3fg-like Type Ia Supernova*, ApJ, 920, 107 [\[ADS\]](#)
- Medler, K., Mazzali, P.A., Teffs, J., Prentice, S.J., Ashall, C., Amenouche, M., **Anderson, J.P.**, Burke, J., Chen, T.W., Galbany, L., et al. , 2021, *SN 2020cpg: an energetic link between Type IIb and Ib supernovae*, MNRAS, 506, 1832 [\[ADS\]](#)
- Ouchi, R., Maeda, K., **Anderson, J.P.** & Sawada, R., 2021, *Are Stripped Envelope Supernovae Really Deficient in 56Ni?*, ApJ, 922, 141 [\[ADS\]](#)
- Parrag, E., Inserra, C., Schulze, S., **Anderson, J.**, Chen, T.-W., Leloudas, G., Galbany, L., Gutiérrez, C.P., Hiramatsu, D., Kankare, E., et al. , 2021, *SN 2019hcc: a Type II supernova displaying early O II lines*, MNRAS, 506, 4819 [\[ADS\]](#)
- Pastorello, A., Fraser, M., Valerin, G., Reguitti, A., Itagaki, K., Ochner, P., Williams, S.C., Jones, D., Munday, J., Smartt, S.J., ..., **Anderson, J.P.**, et al. , 2021, *Forbidden hugs in pandemic times. I. Luminous red nova AT 2019zhd, a new merger in M 31*, A&A, 646, A119 [\[ADS\]](#)
- Perley, D.A., Ho, A.Y.Q., Yao, Y., Fremling, C., **Anderson, J.P.**, Schulze, S., Kumar, H., Anupama, G.C., Barway, S., Bellm, E.C., et al. , 2021, *Real-time discovery of AT2020xnd: a fast, luminous ultraviolet transient with minimal radioactive ejecta*, MNRAS, 508, 5138 [\[ADS\]](#)
- Prentice, S.J., Inserra, C., Schulze, S., Nicholl, M., Mazzali, P.A., Vergani, S.D., Galbany, L., **Anderson, J.P.**, Ashall, C., Chen, T.W., et al. , 2021, *Transitional events in the spectrophotometric regime between stripped envelope and superluminous supernovae*, MNRAS, 508, 4342 [\[ADS\]](#)
- Tucker, M.A., Shappee, B.J., Hinkle, J.T., Neustadt, J.M.M., Eracleous, G., Kochanek, C.S., Prieto, J.L., Payne, A.V., Galbany, L., **Anderson, J.P.**, et al. , 2021, *An AMUSING look at the host of the periodic nuclear transient ASASSN-14ko reveals a second AGN*, MNRAS, 506, 6014 [\[ADS\]](#)
- Gaia Collaboration, Klioner, S.A., Mignard, F., Lindegren, L., Bastian, U., McMillan, P.J., Hernández, J., Hobbs, D., Ramos-Lerate, M., Biermann, M., ..., **Anderson, R.I.**, et al. , 2021, *Gaia Early Data Release 3. Acceleration of the Solar System from Gaia astrometry*, A&A, 649, A9 [\[ADS\]](#)
- Gaia Collaboration, Luri, X., Chemin, L., Clementini, G., Delgado, H.E., McMillan, P.J., Romero-Gómez, M., Balbinot, E., Castro-Ginard, A., Mor, R., ..., **Anderson, R.I.**, et al. , 2021, *Gaia Early Data Release 3. Structure and properties of the Magellanic Clouds*, A&A, 649, A7 [\[ADS\]](#)
- Gaia Collaboration, Brown, A.G.A., Vallenari, A., Prusti, T., de Bruijne, J.H.J., Babusiaux, C., Biermann, M., Creevey, O.L., Evans, D.W., Eyer, L., ..., **Anderson, R.I.**, et al. , 2021, *Gaia Early Data Release 3. Summary of the contents and survey properties*, A&A, 649, A1 [\[ADS\]](#)
- Gaia Collaboration, Smart, R.L., Sarro, L.M., Rybizki, J., Reylé, C., Robin, A.C., Hambly, N.C., Abbas, U., Barstow, M.A., de Bruijne, J.H.J., ..., **Anderson, R.I.**, et al. , 2021, *Gaia Early Data Release 3. The Gaia Catalogue of Nearby Stars*, A&A, 649, A6 [\[ADS\]](#)
- Gaia Collaboration, Antoja, T., McMillan, P.J., Kordopatis, G., Ramos, P., Helmi, A., Balbinot, E., Cantat-Gaudin, T., Chemin, L., Figueras, F., ..., **Anderson, R.I.**, et al. , 2021, *Gaia Early Data Release 3. The Galactic anticentre*, A&A, 649, A8 [\[ADS\]](#)
- Graczyk, D., Pietrzyński, G., Galan, C., Gieren, W., Tkachenko, A., **Anderson, R.I.**, Gallenne, A., Górski, M., Hajdu, G., Kaluszyński, M., et al. , 2021, *The surface brightness-colour relations based on eclipsing binary stars and calibrated with Gaia EDR3*, A&A, 649, A109 [\[ADS\]](#)
- Pilecki, B., Pietrzyński, G., **Anderson, R.I.**, Gieren, W., Taormina, M., Narloch, W., Evans, N.R. & Storm, J., 2021, *Cepheids with Giant Companions. I. Revealing a Numerous Population of Double-lined Binary Cepheids*, ApJ, 910, 118 [\[ADS\]](#)
- Plachy, E., Pál, A., Bódi, A., Szabó, P., Molnár, L., Szabados, L., Benkő, J.M., **Anderson, R.I.**, Bellinger, E.P., Bhardwaj, A., et al. , 2021, *TESS Observations of Cepheid Stars: First Light Results*, ApJS, 253, 11 [\[ADS\]](#)
- Bewketu Belete, A., **Andreani, P.**, Fernández-Ontiveros, J.A., Hatziminaoglou, E., Combes, F., Sirressi, M., Slater, R., Ricci, C., Dasyra, K., Cicone, C., et al. , 2021, *Molecular gas kinematics in the nuclear region of nearby Seyfert galaxies with ALMA*, A&A, 654, A24 [\[ADS\]](#)
- Aoki, M.**, Primas, F., Pasquini, L., Weiss, A., Salaris, M. & Carollo, D., 2021, *Lithium in NGC 2243 and NGC 104*, A&A, 653, A13 [\[ADS\]](#)
- Aniyan, S., Ponomareva, A.A., Freeman, K.C., **Arnaboldi, M.**, Gerhard, O.E., Coccato, L., Kuijken, K. & Merrifield, M., 2021, *Resolving the Disc-Halo Degeneracy - II: NGC 6946*, MNRAS, 500, 3579 [\[ADS\]](#)
- Barbosa, C.E., Spiniello, C., **Arnaboldi, M.**, Coccato, L., Hilker, M. & Richtler, T., 2021, *What does (not) drive the variation of the low-mass end of the stellar initial mass function of early-type galaxies*, A&A, 645, L1 [\[ADS\]](#)
- Pulsoni, C., Gerhard, O., **Arnaboldi, M.**, Pillepich, A., Rodríguez-Gomez, V., Nelson, D., Hernquist, L. & Springel, V., 2021, *The stellar halos of ETGs in the IllustrisTNG simulations. II. Accretion, merger history, and dark halo connection*, A&A, 647, A95 [\[ADS\]](#)
- Schuller, F., Urquhart, J.S., Csengeri, T., Colombo, D., Duarte-Cabral, A., Mattern, M., Ginsburg, A., Pettitt, A.R., Wyrowski, F., Anderson, L., **Azagra, F.**, et al. , 2021, *The SEDIGISM survey: First Data Release and overview of the Galactic structure*, MNRAS, 500, 3064 [\[ADS\]](#)
- Ghoreyshi, M.R., Carciofi, A.C., Jones, C.E., Faes, D.M., **Baade, D.** & Rivinius, T., 2021, *A Multi-Observing Technique Study of the Dynamical Evolution of the Viscous Disk around the Be Star  $\omega$  CMa*, ApJ, 909, 149 [\[ADS\]](#)
- Hoeflich, P., Ashall, C., Bose, S., Baron, E., Stritzinger, M.D., Davis, S., Shahbandeh, M., Anand, G.S., **Baade, D.**, Burns, C.R., et al. , 2021, *Measuring an Off-center Detonation through Infrared Line Profiles: The Peculiar Type Ia Supernova SN 2020qxp/ASASSN-20jq*, ApJ, 922, 186 [\[ADS\]](#)
- Labadie-Bartz, J., **Baade, D.**, Carciofi, A.C., Rubio, A., Rivinius, T., Borre, C.C., Martayan, C. & Siverd, R.J., 2021, *Short-term variability and mass loss in Be stars - VI. Frequency groups in  $\gamma$  Cas detected by TESS*, MNRAS, 502, 242 [\[ADS\]](#)
- Maud, J.R., Yang, Y., Steele, I.A., **Baade, D.**, Jermak, H., Schulze, S., Bruch, R., Gal-Yam, A., Höflich, P.A., Ofek, E., et al. , 2021, *RINGO3 polarimetry of very young ZTF supernovae*, MNRAS, 503, 312 [\[ADS\]](#)
- Weiss, W.W., Zwintz, K., Kuschnig, R., Handler, G., Moffat, A.F.J., **Baade, D.**, Bowman, D.M., Granzer, T., Kallinger, T., Koudelka, O.F., et al. , 2021, *Space Photometry with Brite-Constellation*, Univ, 7, 199 [\[ADS\]](#)
- Bachmann, A.**, van der Burg, R.F.J., Fensch, J., Brammer, G. & Muzzin, A., 2021, *Low surface brightness galaxies in  $z > 1$  galaxy clusters: HST approaching the progenitors of local ultra diffuse galaxies*, A&A, 646, L12 [\[ADS\]](#)

- Venuti, L., Cody, A.M., Rebull, L.M., **Beccari, G.**, Irwin, M.J., Thanvantri, S., Howell, S.B. & Barentsen, G., 2021, *Multicolor Variability of Young Stars in the Lagoon Nebula: Driving Causes and Intrinsic Timescales*, *AJ*, 162, 101 [\[ADS\]](#)
- Fluetsch, A., Maiolino, R., Carniani, S., Arribas, S., **Belfiore, F.**, Bellocchi, E., Cazzoli, S., Cicone, C., Cresci, G., Fabian, A.C., et al. , 2021, *Properties of the multiphase outflows in local (ultra)luminous infrared galaxies*, *MNRAS*, 505, 5753 [\[ADS\]](#)
- Berg, T.A.M.**, Fumagalli, M., D'Odorico, V., Ellison, S.L., López, S., Becker, G.D., Christensen, L., Cupani, G., Denney, K.D. & Sánchez-Ramírez, R., 2021, *Sub-damped Lyman  $\alpha$  systems in the XQ-100 survey - II. Chemical evolution at  $2.4 \leq z \leq 4.3$* , *MNRAS*, 502, 4009 [\[ADS\]](#)
- GRAVITY Collaboration, Abuter, R., Aymar, N., Amorim, A., Ball, J., Bauböck, M., **Berger, J.P.**, Bonnet, H., Bourdarot, G., Brandner, W., et al. , 2021, *The mass distribution in the Galactic Centre from interferometric astrometry of multiple stellar orbits*, arXiv:2112.07478 [\[ADS\]](#)
- Berton, M.** & Järvelä, E., 2021, *Peaked sources and narrow-line Seyfert 1s: A love story*, *AN*, 342, 1066 [\[ADS\]](#)
- Foschini, L., Lister, M.L., Antón, S., **Berton, M.**, Ciroi, S., Marchã, M.J.M., Tornikoski, M., Järvelä, E., Romano, P. & Vercellone, S., 2021, *A New Sample of Gamma-Ray Emitting Jetted Active Galactic Nuclei—Preliminary Results*, *Univ*, 7, 372 [\[ADS\]](#)
- Marziani, P., **Berton, M.**, Panda, S. & Bon, E., 2021, *Optical Singly-Ionized Iron Emission in Radio-Quiet and Relativistically Jetted Active Galactic Nuclei*, *Univ*, 7, 484 [\[ADS\]](#)
- Cangemi, F., **Beuchert, T.**, Siegert, T., Rodriguez, J., Grinberg, V., Belmont, R., Gouiffès, C., Kreykenbohm, I., Laurent, P. & Pottschmidt, K., 2021, *Potential origin of the state-dependent high-energy tail in the black hole microquasar Cygnus X-1 as seen with INTEGRAL*, *A&A*, 650, A93 [\[ADS\]](#)
- Kantzas, D., Markoff, S., **Beuchert, T.**, Lucchini, M., Chhotray, A., Cecobello, C., Tetarenko, A.J., Miller-Jones, J.C.A., Bremer, M., Garcia, J.A., et al. , 2021, *A new lepto-hadronic model applied to the first simultaneous multiwavelength data set for Cygnus X-1*, *MNRAS*, 500, 2112 [\[ADS\]](#)
- Dhillon, V.S., **Bezawada, N.**, Black, M., Dixon, S.D., Gamble, T., Gao, X., Henry, D.M., Kerry, P., Littlefair, S.P., Lunney, D.W., et al. , 2021, *HiPERCAM: a quintuple-beam, high-speed optical imager on the 10.4-m Gran Telescopio Canarias*, *MNRAS*, 507, 350 [\[ADS\]](#)
- Bhattacharya, S.**, Arnaboldi, M., Gerhard, O., McConnachie, A., Caldwell, N., Hartke, J. & Freeman, K.C., 2021, *The survey of planetary nebulae in Andromeda (M 31). III. Constraints from deep planetary nebula luminosity functions on the origin of the inner halo substructures in M 31*, *A&A*, 647, A130 [\[ADS\]](#)
- Li, J.-T., Wang, F., Yang, J., Zhang, Y., Fu, Y., **Bian, F.**, Bregman, J.N., Fan, X., Li, Q. & Wu, X.-B., 2021, *Chandra Detection of Three X-Ray Bright Quasars at  $z > 5$* , *ApJ*, 906, 135 [\[ADS\]](#)
- Rigby, J.R., Florian, M., Acharyya, A., Bayliss, M., Gladders, M.D., Sharon, K., Brammer, G., Momcheva, I., LaMassa, S., **Bian, F.**, et al. , 2021, *A Comparison of Rest-frame Ultraviolet and Optical Emission-line Diagnostics in the Lensed Galaxy SDSS J1723+3411 at Redshift  $z = 1.3293$* , *ApJ*, 908, 154 [\[ADS\]](#)
- Wang, F., Yang, J., Fan, X., Hennawi, J.F., Barth, A.J., Banados, E., **Bian, F.**, Boutsia, K., Connor, T., Davies, F.B., et al. , 2021, *A Luminous Quasar at Redshift 7.642*, *ApJL*, 907, L1 [\[ADS\]](#)
- Yang, J., Wang, F., Fan, X., Barth, A.J., Hennawi, J.F., Nanni, R., **Bian, F.**, Davies, F.B., Farina, E.P., Schindler, J.-T., et al. , 2021, *Probing Early Supermassive Black Hole Growth and Quasar Evolution with Near-infrared Spectroscopy of 37 Reionization-era Quasars at  $6.3 < z \leq 7.64$* , *ApJ*, 923, 262 [\[ADS\]](#)
- Zhu, Y., Becker, G.D., Bosman, S.E.I., Keating, L.C., Christenson, H.M., Bañados, E., **Bian, F.**, Davies, F.B., D'Odorico, V., Eilers, A.-C., et al. , 2021, *Chasing the Tail of Cosmic Reionization with Dark Gap Statistics in the Ly $\alpha$  Forest over  $5 < z < 6$* , *ApJ*, 923, 223 [\[ADS\]](#)
- Biggs, A.D.**, 2021, *The time delay of CLASS B1600+434 from VLA multi-frequency and polarization monitoring*, *MNRAS*, 505, 2610 [\[ADS\]](#)
- Bittner, A.**, de Lorenzo-Cáceres, A., Gadotti, D.A., Sánchez-Blázquez, P., Neumann, J., Coelho, P., Falcón-Barroso, J., Fragkoudi, F., Kim, T., Martín-Navarro, I., et al. , 2021, *Galaxies within galaxies in the TIMER survey: stellar populations of inner bars are scaled replicas of main bars*, *A&A*, 646, A42 [\[ADS\]](#)
- Chornay, N., Walton, N.A., Jones, D., **Boffin, H.M.J.**, Rejkuba, M. & Wesson, R., 2021, *Towards a more complete sample of binary central stars of planetary nebulae with Gaia*, *A&A*, 648, A95 [\[ADS\]](#)
- Frasca, A., **Boffin, H.M.J.**, Manara, C.F., Alcalá, J.M., Ábrahám, P., Covino, E., Fang, M., Gangi, M., Herczeg, G.J., Kóspál, Á., et al. , 2021, *PENELLOPE. II. CVSO 104: A pre-main sequence close binary with an optical companion in Ori OB1*, *A&A*, 656, A138 [\[ADS\]](#)
- Jerabkova, T., **Boffin, H.M.J.**, Beccari, G., de Marchi, G., de Bruijne, J.H.J. & Prusti, T., 2021, *The 800 pc long tidal tails of the Hyades star cluster. Possible discovery of candidate epicyclic overdensities from an open star cluster*, *A&A*, 647, A137 [\[ADS\]](#)
- Rain, M.J., Carraro, G., Ahumada, J.A., Villanova, S., **Boffin, H.** & Monaco, L., 2021, *The Blue Straggler Population of the Open Clusters Trumpler 5, Trumpler 20, and NGC 2477*, *AJ*, 161, 37 [\[ADS\]](#)
- Bardou, L., Gendron, É., Rousset, G., Gratadour, D., Basden, A., **Bonaccini Calia, D.**, Buey, T., Centrone, M., Chemla, F., Gach, J.-L., et al. , 2021, *ELT-scale elongated LGS wavefront sensing: on-sky results*, *A&A*, 649, A158 [\[ADS\]](#)
- Kokoulina, E., Matter, A., Lopez, B., Pantin, E., Ysard, N., Weigelt, G., Habart, E., Varga, J., Jones, A., Meilland, A., ..., **Bristow, P.**, et al. , 2021, *First MATISSE L-band observations of HD 179218. Is the inner 10 au region rich in carbon dust particles?*, *A&A*, 652, A61 [\[ADS\]](#)
- Varga, J., Hogerheijde, M., van Boekel, R., Klarmann, L., Petrov, R., Waters, L.B.F.M., Lagarde, S., Pantin, E., Berio, P., Weigelt, G., ..., **Bristow, P.**, et al. , 2021, *The asymmetric inner disk of the Herbig Ae star HD 163296 in the eyes of VLT/MATISSE: evidence for a vortex?*, *A&A*, 647, A56 [\[ADS\]](#)
- Bonato, M., Prandoni, I., De Zotti, G., Best, P.N., Bondi, M., **Calistro Rivera, G.**, Cochrane, R.K., Gürkan, G., Haskell, P., Kondapally, R., et al. , 2021, *The LOFAR Two-metre Sky Survey Deep Fields. A new analysis of low-frequency radio luminosity as a star-formation tracer in the Lockman Hole region*, *A&A*, 656, A48 [\[ADS\]](#)
- Calistro Rivera, G.**, Alexander, D.M., Rosario, D.J., Harrison, C.M., Stalevski, M., Rakshit, S., Fawcett, V.A., Morabito, L.K., Klindt, L., Best, P.N., et al. , 2021, *The multiwavelength properties of red QSOs: Evidence for dusty winds as the origin of QSO reddening*, *A&A*, 649, A102 [\[ADS\]](#)
- Gludemans, A.J., Duncan, K.J., Röttgering, H.J.A., Shimwell, T.W., Venemans, B.P., Best, P.N., Brügger, M., **Calistro Rivera, G.**, Drabant, A., Hardcastle, M.J., et al. , 2021, *Low frequency radio properties of the  $z > 5$  quasar population*, *A&A*, 656, A137 [\[ADS\]](#)
- Macfarlane, C., Best, P.N., Sabater, J., Gürkan, G., Jarvis, M.J., Röttgering, H.J.A., Baldi, R.D., **Calistro Rivera, G.**, Duncan, K.J., Morabito, L.K., et al. , 2021, *The radio loudness of SDSS quasars from the LOFAR Two-metre Sky Survey: ubiquitous jet activity and*

- constraints on star formation, MNRAS, 506, 5888 [\[ADS\]](#)
- Ramasawmy, J., Geach, J.E., Hardcastle, M.J., Best, P.N., Bonato, M., Bondi, M., **Calistro Rivera, G.**, Cochrane, R.K., Conway, J.E., Coppin, K., et al. , 2021, *Low-frequency radio spectra of submillimetre galaxies in the Lockman Hole*, A&A, 648, A14 [\[ADS\]](#)
- Tasse, C., Shimwell, T., Hardcastle, M.J., O'Sullivan, S.P., van Weeren, R., Best, P.N., Bester, L., Hugo, B., Smirnov, O., Sabater, J., **Calistro-Rivera, G.**, et al. , 2021, *The LOFAR Two-meter Sky Survey: Deep Fields Data Release 1. I. Direction-dependent calibration and imaging*, A&A, 648, A1 [\[ADS\]](#)
- Zhai, S., Shi, Y., **Chen, J.**, Bing, L., Chen, Y., Yu, X. & Li, S., 2021, *Probing possible effects of circumgalactic media on the metal content of galaxies through the mass-metallicity relationship*, MNRAS, 504, 1959 [\[ADS\]](#)
- Rubin, D., **Cikota, A.**, Aldering, G., Fruchter, A., Perlmutter, S. & Sako, M., 2021, *Going Forward with the Nancy Grace Roman Space Telescope Transient Survey: Validation of Precision Forward-modeling Photometry for Undersampled Imaging*, PASP, 133, 064001 [\[ADS\]](#)
- Cullen, F., Shapley, A.E., McLure, R.J., Dunlop, J.S., Sanders, R.L., Topping, M.W., Reddy, N.A., Amorin, R., Begley, R., Bolzonella, M., ..., **Cirasuolo, M.**, et al. , 2021, *The NIRVANDELS Survey: a robust detection of  $\alpha$ -enhancement in star-forming galaxies at  $z \approx 3.4$* , MNRAS, 505, 903 [\[ADS\]](#)
- Garilli, B., McLure, R., Pentericci, L., Franzetti, P., Gargiulo, A., Carnall, A., Cucciati, O., Iovino, A., Amorin, R., Bolzonella, M., ..., **Cirasuolo, M.**, et al. , 2021, *The VANDELS ESO public spectroscopic survey. Final data release of 2087 spectra and spectroscopic measurements*, A&A, 647, A150 [\[ADS\]](#)
- Gillman, S., Tiley, A.L., Swinbank, A.M., Dudzevičiūtė, U., Sharples, R.M., Smail, I., Harrison, C.M., Bunker, A.J., Bureau, M., **Cirasuolo, M.**, et al. , 2021, *The evolution of gas-phase metallicity and resolved abundances in star-forming galaxies at  $z \approx 0.6$ -1.8*, MNRAS, 500, 4229 [\[ADS\]](#)
- Looser, T.J., Lilly, S.J., Sin, L.P.T., Henriques, B.M.B., Maiolino, R. & **Cirasuolo, M.**, 2021, *Optimizing high-redshift galaxy surveys for environmental information*, MNRAS, 504, 3029 [\[ADS\]](#)
- Buzzo, M.L., Cortesi, A., Hernandez-Jimenez, J.A., **Coccatto, L.**, Werle, A., Beraldo e Silva, L., Grossi, M., Vika, M., Barbosa, C.E., Lucatelli, G., et al. , 2021, *Recovering the origins of the lenticular galaxy NGC 3115 using multiband imaging*, MNRAS, 504, 2146 [\[ADS\]](#)
- Galán-de Anta, P.M., Sarzi, M., Spriggs, T.W., Nedelchev, B., Pinna, F., Martín-Navarro, I., **Coccatto, L.**, Corsini, E.M., de Zeeuw, P.T., Falcón-Barroso, J., et al. , 2021, *The Fornax 3D project: PNe populations and stellar metallicity in edge-on galaxies*, A&A, 652, A109 [\[ADS\]](#)
- Martín-Navarro, I., Pinna, F., **Coccatto, L.**, Falcón-Barroso, J., van de Ven, G., Lyubenova, M., Corsini, E.M., Fahrion, K., Gadotti, D.A., Iodice, E., et al. , 2021, *Fornax 3D project: Assessing the diversity of IMF and stellar population maps within the Fornax Cluster*, A&A, 654, A59 [\[ADS\]](#)
- Rubino, M., Pizzella, A., Morelli, L., **Coccatto, L.**, Portaluri, E., Debattista, V.P., Corsini, E.M. & Dalla Bontà, E., 2021, *Detectability of large-scale counter-rotating stellar disks in galaxies with integral-field spectroscopy*, A&A, 654, A30 [\[ADS\]](#)
- Spiniello, C., Tortora, C., D'Ago, G., **Coccatto, L.**, La Barbera, F., Ferré-Mateu, A., Napolitano, N.R., Spavone, M., Scognamiglio, D., Arnaboldi, M., et al. , 2021, *INSPIRE: Investigating Stellar Population In RElics. I. Survey presentation and pilot study*, A&A, 646, A28 [\[ADS\]](#)
- Spiniello, C., Tortora, C., D'Ago, G., **Coccatto, L.**, La Barbera, F., Ferré-Mateu, A., Pulsioni, C., Arnaboldi, M., Gallazzi, A., Hunt, L., et al. , 2021, *INSPIRE: Investigating Stellar Population In RElics. II. First data release (DR1)*, A&A, 654, A136 [\[ADS\]](#)
- Spriggs, T.W., Sarzi, M., Galán-de Anta, P.M., Napiwotzki, R., Viaene, S., Nedelchev, B., **Coccatto, L.**, Corsini, E.M., Fahrion, K., Falcón-Barroso, J., et al. , 2021, *The Fornax3D project: Planetary nebulae catalogue and independent distance measurements to Fornax cluster galaxies*, A&A, 653, A167 [\[ADS\]](#)
- Murphy, A., Dougados, C., Whelan, E.T., Bacciotti, F., Coffey, D., **Comerón, F.**, Eislöffel, J. & Ray, T.P., 2021, *A MUSE spectro-imaging study of the Th 28 jet: Precession in the inner jet*, A&A, 652, A119 [\[ADS\]](#)
- Schneider, N., Röllig, M., Polehampton, E.T., **Comerón, F.**, Djupvik, A.A., Makai, Z., Buchbender, C., Simon, R., Bontemps, S., Güsten, R., et al. , 2021, *Globules and pillars in Cygnus X. III. Herschel and upGREAT/SOFIA far-infrared spectroscopy of the globule IRAS 20319+3958 in Cygnus X*, A&A, 653, A108 [\[ADS\]](#)
- Álvarez-Hernández, A., Torres, M.A.P., Rodríguez-Gil, P., Shahbaz, T., Anupama, G.C., Gazeas, K.D., Pavana, M., Raj, A., Hakala, P., Stone, G., ..., **Corral-Santana, J.M.**, et al. , 2021, *The intermediate polar cataclysmic variable GK Persei 120 years after the nova explosion: a first dynamical mass study*, MNRAS, 507, 5805 [\[ADS\]](#)
- Carballo-Bello, J.A., Martínez-Delgado, D., **Corral-Santana, J.M.**, Alfaro, E.J., Navarrete, C., Vivas, A.K. & Catelan, M., 2021, *A revised view of the Canis Major stellar overdensity with DECam and Gaia: new evidence of a stellar warp of blue stars*, MNRAS, 501, 1690 [\[ADS\]](#)
- Davison, T.A.**, Norris, M.A., Leaman, R., Kuntschner, H., Boecker, A. & van de Ven, G., 2021, *Mapping accreted stars in early-type galaxies across the mass-size plane*, MNRAS, 507, 3089 [\[ADS\]](#)
- Davison, T.A.**, Kuntschner, H., Husemann, B., Norris, M.A., Dalcanton, J.J., De Rosa, A., Duc, P.-A., Bianchi, S., Capelo, P.R. & Vignali, C., 2021, *Old and new major mergers in the SOSIMPLE galaxy, NGC 7135*, MNRAS, 502, 2296 [\[ADS\]](#)
- Drouart, G., Seymour, N., Broderick, J.W., Afonso, J., Chhetri, R., **De Breuck, C.**, Emonts, B., Galvin, T.J., Lehnert, M.D., Morgan, J., et al. , 2021, *The nature and likely redshift of GLEAM J0917-0012*, PASA, 38, e049 [\[ADS\]](#)
- Jin, S., Dannerbauer, H., Emonts, B., Serra, P., Lagos, C.D.P., Thomson, A.P., Bassini, L., Lehnert, M., Allison, J.R., Champagne, J.B., ..., **De Breuck, C.**, et al. , 2021, *COALAS. I. ATCA CO(1-0) survey and luminosity function in the Spiderweb protocluster at  $z = 2.16$* , A&A, 652, A11 [\[ADS\]](#)
- Koss, M.J., Strittmatter, B., Lamperti, I., Shimizu, T., Trakhtenbrot, B., Sainonge, A., Treister, E., Ciccone, C., Mushotzky, R., Oh, K., ..., **De Breuck, C.**, et al. , 2021, *BAT AGN Spectroscopic Survey. XX. Molecular Gas in Nearby Hard-X-Ray-selected AGN Galaxies*, ApJS, 252, 29 [\[ADS\]](#)
- Lee, M.M., Nagao, T., **De Breuck, C.**, Carniani, S., Cresci, G., Hatsukade, B., Kawabe, R., Kohno, K., Maiolino, R., Mannucci, F., et al. , 2021, *Dense and Warm Neutral Gas in BR 1202-0725 at  $z = 4.7$  as Traced by the [O I] 145  $\mu$ m Line*, ApJ, 913, 41 [\[ADS\]](#)
- Lelli, F., Di Teodoro, E.M., Fraternali, F., Man, A.W.S., Zhang, Z.-Y., **De Breuck, C.**, Davis, T.A. & Maiolino, R., 2021, *A massive stellar bulge in a regularly rotating galaxy 1.2 billion years after the Big Bang*, Sci, 371, 713 [\[ADS\]](#)
- Rotermund, K.M., Chapman, S.C., Phadke, K.A., Hill, R., Pass, E., Aravena, M., Ashby, M.L.N., Babul, A., Béthermin, M., Canning, R., **de Breuck, C.**, et al. , 2021, *Optical and near-infrared observations of the SPT2349-56 proto-cluster core at  $z = 4.3$* , MNRAS, 502, 1797 [\[ADS\]](#)
- Wang, G.C.P., Hill, R., Chapman, S.C., Weiß, A., Scott, D., Apostolovski, Y., Aravena, M., Archipley, M.A., Béthermin, M., Canning, R.E.A., **De Breuck, C.**, et al. ,

- 2021, *Overdensities of submillimetre-bright sources around candidate protocluster cores selected from the South Pole Telescope survey*, MNRAS, 508, 3754 [\[ADS\]](#)
- Vazzano, M.M., Fernández-López, M., Plunkett, A., **de Gregorio-Monsalvo, I.**, Santamaría-Miranda, A., Takahashi, S. & Lopez, C., 2021, *Outflows, envelopes, and disks as evolutionary indicators in Lupus young stellar objects*, A&A, 648, A41 [\[ADS\]](#)
- Hirsch, L.A., Rosenthal, L., Fulton, B.J., Howard, A.W., Ciardi, D.R., Marcy, G.W., Nielsen, E., Petigura, E.A., **de Rosa, R.J.**, Isaacson, H., et al. , 2021, *Understanding the Impacts of Stellar Companions on Planet Formation and Evolution: A Survey of Stellar and Planetary Companions within 25 pc*, AJ, 161, 134 [\[ADS\]](#)
- Nguyen, M.M., **De Rosa, R.J.** & Kalas, P., 2021, *First Detection of Orbital Motion for HD 106906 b: A Wide-separation Exoplanet on a Planet Nine-like Orbit*, AJ, 161, 22 [\[ADS\]](#)
- Ruffio, J.-B., Konopacky, Q.M., Barman, T., Macintosh, B., Hoch, K.K.W., **De Rosa, R.J.**, Wang, J.J., Czekala, I. & Marois, C., 2021, *Deep Exploration of the Planets HR 8799 b, c, and d with Moderate-resolution Spectroscopy*, AJ, 162, 290 [\[ADS\]](#)
- Ward-Duong, K., Patience, J., Follette, K., **De Rosa, R.J.**, Rameau, J., Marley, M., Saumon, D., Nielsen, E.L., Rajan, A., Greenbaum, A.Z., et al. , 2021, *Gemini Planet Imager Spectroscopy of the Dusty Substellar Companion HD 206893 B*, AJ, 161, 5 [\[ADS\]](#)
- Frost, A.J., Oudmaijer, R.D., Lumsden, S.L. & **de Wit, W.J.**, 2021, *Tying the Geometrical Traits of Massive Young Stellar Objects and Their Disks to a Potential Evolutionary Sequence Using Infrared Observations*, ApJ, 920, 48 [\[ADS\]](#)
- Frost, A.J., Oudmaijer, R.D., **de Wit, W.J.** & Lumsden, S.L., 2021, *Unveiling the traits of massive young stellar objects through a multi-scale survey*, A&A, 648, A62 [\[ADS\]](#)
- Koumpia, E., **de Wit, W.J.**, Oudmaijer, R.D., Frost, A.J., Lumsden, S., Caratti o Garatti, A., Goodwin, S.P., Stecklum, B., Mendigutía, I. & Ilee, J.D., 2021, *The first interferometric survey of massive YSOs in the K-band. Hot dust, ionised gas, and binarity at au scales*, A&A, 654, A109 [\[ADS\]](#)
- Marcos-Arenal, P., Mendigutía, I., Koumpia, E., Oudmaijer, R.D., Vioque, M., Guzmán-Díaz, J., Wichittanakom, C., **de Wit, W.J.**, Montesinos, B. & Ilee, J.D., 2021, *K-band GRAVITY/VLTI interferometry of "extreme" Herbig Be stars. The size-luminosity relation revisited*, A&A, 652, A68 [\[ADS\]](#)
- Borsa, F., Allart, R., Casasayas-Barris, N., Taberner, H., Zapatero Osorio, M.R., Cristiani, S., Pepe, F., Rebolo, R., Santos, N.C., Adibekyan, V., ..., **Dekker, H.**, et al. , 2021, *Atmospheric Rossiter-McLaughlin effect and transmission spectroscopy of WASP-121b with ESPRESSO*, A&A, 645, A24 [\[ADS\]](#)
- Pepe, F., Cristiani, S., Rebolo, R., Santos, N.C., **Dekker, H.**, Cabral, A., Di Marcantonio, P., Figueira, P., Lo Curto, G., Lovis, C., et al. , 2021, *ESPRESSO at VLT. On-sky performance and first results*, A&A, 645, A96 [\[ADS\]](#)
- Lovell, J.B., Marino, S., Wyatt, M.C., Kennedy, G.M., MacGregor, M.A., Stapelfeldt, K., **Dent, B.**, Krist, J., Matrà, L., Kral, Q., et al. , 2021, *High-resolution ALMA and HST images of  $q^1$  Eri: an asymmetric debris disc with an eccentric Jupiter*, MNRAS, 506, 1978 [\[ADS\]](#)
- Nicastro, F., Kaastra, J., Argiroffi, C., Behar, E., Bianchi, S., Bocchino, F., Borgani, S., Branduardi-Raymont, G., Bregman, J., Churazov, E., **Diaz-Trigo, M.**, et al. , 2021, *The Voyage of Metals in the Universe from Cosmological to Planetary Scales: the need for a Very High-Resolution, High Throughput Soft X-ray Spectrometer*, ExA, 51, 1013 [\[ADS\]](#)
- Otten, G.P.P.L., Vigan, A., Muslimov, E., N'Diaye, M., Choquet, E., Seemann, U., Dohlen, K., Houllé, M., Cristofari, P., Phillips, M.W., ..., **Dorn, R.**, et al. , 2021, *Direct characterization of young giant exoplanets at high spectral resolution by coupling SPHERE and CRILES+*, A&A, 646, A150 [\[ADS\]](#)
- Goicoechea, J.R., Aguado, A., Cuadrado, S., Roncero, O., Pety, J., Bron, E., Fuente, A., Riquelme, D., Chapillon, E., Herrera, C. & **Duran, C.A.**, 2021, *Bottlenecks to interstellar sulfur chemistry. Sulfur-bearing hydrides in UV-illuminated gas and grains*, A&A, 647, A10 [\[ADS\]](#)
- Anand, G.S., Lee, J.C., Van Dyk, S.D., Leroy, A.K., Rosolowsky, E., Schinnerer, E., Larson, K., Kourkchi, E., Kreckel, K., Scheuermann, F., ..., **Emsellem, E.**, et al. , 2021, *Distances to PHANGS galaxies: New tip of the red giant branch measurements and adopted distances*, MNRAS, 501, 3621 [\[ADS\]](#)
- Andrews, J.E., Jencson, J.E., Van Dyk, S.D., Smith, N., Neustadt, J.M.M., Sand, D.J., Kreckel, K., Kochanek, C.S., Valenti, S., Strader, J., ..., **Emsellem, E.**, et al. , 2021, *The Blue Supergiant Progenitor of the Supernova Imposter AT 2019krl*, ApJ, 917, 63 [\[ADS\]](#)
- Barnes, A.T., Glover, S.C.O., Kreckel, K., Ostriker, E.C., Bigiel, F., Belfiore, F., Bešlić, I., Blanc, G.A., Chevance, M., Dale, D.A., ..., **Emsellem, E.**, et al. , 2021, *Comparing the pre-SNe feedback and environmental pressures for 6000 H II regions across 19 nearby spiral galaxies*, MNRAS, 508, 5362 [\[ADS\]](#)
- Bešlić, I., Barnes, A.T., Bigiel, F., Puschign, J., Pety, J., Herrera Contreras, C., Leroy, A.K., Usero, A., Schinnerer, E., Meidt, S.E., **Emsellem, E.**, et al. , 2021, *Dense molecular gas properties on 100 pc scales across the disc of NGC 3627*, MNRAS, 506, 963 [\[ADS\]](#)
- den Brok, M., Krajnović, D., **Emsellem, E.**, Brinchmann, J. & Maseda, M., 2021, *Dynamical modelling of the twisted galaxy PGC 046832*, MNRAS, 508, 4786 [\[ADS\]](#)
- Derkenne, C., McDermid, R.M., Poci, A., Remus, R.-S., Jørgensen, I. & **Emsellem, E.**, 2021, *Total mass density slopes of early-type galaxies using Jeans dynamical modelling at redshifts  $0.29 < z < 0.55$* , MNRAS, 506, 3691 [\[ADS\]](#)
- Emsellem, E.**, Schinnerer, E., Santoro, F., Belfiore, F., Pessa, I., McElroy, R., Blanc, G.A., Congiu, E., Groves, B., Ho, I.-T., et al. , 2021, *The PHANGS-MUSE survey -- Probing the chemo-dynamical evolution of disc galaxies*, arXiv:2110.03708 [\[ADS\]](#)
- Leroy, A.K., Hughes, A., Liu, D., Pety, J., Rosolowsky, E., Saito, T., Schinnerer, E., Schruha, A., Usero, A., Faesi, C.M., ..., **Emsellem, E.**, et al. , 2021, *PHANGS-ALMA Data Processing and Pipeline*, ApJS, 255, 19 [\[ADS\]](#)
- Leroy, A.K., Schinnerer, E., Hughes, A., Rosolowsky, E., Pety, J., Schruha, A., Usero, A., Blanc, G.A., Chevance, M., **Emsellem, E.**, et al. , 2021, *PHANGS-ALMA: Arcsecond CO(2-1) Imaging of Nearby Star-forming Galaxies*, ApJS, 257, 43 [\[ADS\]](#)
- Meidt, S.E., Leroy, A.K., Querejeta, M., Schinnerer, E., Sun, J., van der Wel, A., **Emsellem, E.**, Henshaw, J., Hughes, A., Kruijssen, J.M.D., et al. , 2021, *The Organization of Cloud-scale Gas Density Structure: High-resolution CO versus  $3.6 \mu\text{m}$  Brightness Contrasts in Nearby Galaxies*, ApJ, 913, 113 [\[ADS\]](#)
- Müller, O., Durrell, P.R., Marleau, F.R., Duc, P.-A., Lim, S., Posti, L., Agnello, A., Sánchez-Janssen, R., Poulain, M., Habas, R., **Emsellem, E.**, et al. , 2021, *Dwarf Galaxies in the MATLAS Survey: Hubble Space Telescope Observations of the Globular Cluster System in the Ultra-diffuse Galaxy MATLAS-2019*, ApJ, 923, 9 [\[ADS\]](#)
- Pagotto, I., Krajnović, D., den Brok, M., **Emsellem, E.**, Brinchmann, J., Weilbacher, P.M., Kollatschny, W. & Steinmetz, M., 2021, *Optical emission lines in the most massive galaxies: Morphology, kinematics, and ionisation properties*, A&A, 649, A63 [\[ADS\]](#)
- Pessa, I., Schinnerer, E., Belfiore, F., **Emsellem, E.**, Leroy, A.K., Schruha, A., Kruijssen, J.M.D., Pan, H.A., Blanc, G.A., Sanchez-Blazquez, P., et al. , 2021, *Star*

- formation scaling relations at  $\sim 100$  pc from PHANGS: Impact of completeness and spatial scale, *A&A*, 650, A134 [\[ADS\]](#)
- Pinna, F., Neumayer, N., Seth, A., **Emsellem, E.**, Nguyen, D.D., Böker, T., Cappellari, M., McDermid, R.M., Voggel, K. & Walcher, C.J., 2021, *Resolved Nuclear Kinematics Link the Formation and Growth of Nuclear Star Clusters with the Evolution of Their Early- and Late-type Hosts*, *ApJ*, 921, 8 [\[ADS\]](#)
- Querejeta, M., Schinnerer, E., Meidt, S., Sun, J., Leroy, A.K., **Emsellem, E.**, Klessen, R.S., Muñoz-Mateos, J.C., Salo, H., Laurikainen, E., et al. , 2021, *Stellar structures, molecular gas, and star formation across the PHANGS sample of nearby galaxies*, *A&A*, 656, A133 [\[ADS\]](#)
- Spavone, M., Krajnović, D., **Emsellem, E.**, Iodice, E. & den Brok, M., 2021, *Assembly history of massive galaxies. A pilot project with VEGAS deep imaging and M3G integral field spectroscopy*, *A&A*, 649, A161 [\[ADS\]](#)
- Stuber, S.K., Saito, T., Schinnerer, E., **Emsellem, E.**, Querejeta, M., Williams, T.G., Barnes, A.T., Bigiel, F., Blanc, G., Dale, D.A., et al. , 2021, *Frequency and nature of central molecular outflows in nearby star-forming disk galaxies*, *A&A*, 653, A172 [\[ADS\]](#)
- Turner, J.A., Dale, D.A., Lee, J.C., Boquien, M., Chandar, R., Deger, S., Larson, K.L., Mok, A., Thilker, D.A., Ubeda, L., ..., **Emsellem, E.**, et al. , 2021, *PHANGS-HST: star cluster spectral energy distribution fitting with CIGALE*, *MNRAS*, 502, 1366 [\[ADS\]](#)
- Williams, T.G., Schinnerer, E., **Emsellem, E.**, Meidt, S., Querejeta, M., Belfiore, F., Bešlić, I., Bigiel, F., Chevance, M., Dale, D.A., et al. , 2021, *Applying the Tremaine-Weinberg Method to Nearby Galaxies: Stellar-mass-based Pattern Speeds and Comparisons with ISM Kinematics*, *AJ*, 161, 185 [\[ADS\]](#)
- Gebruers, S., Straumit, I., Tkachenko, A., Mombarg, J.S.G., Pedersen, M.G., Van Reeth, T., Li, G., Lampens, P., **Escorza, A.**, Bowman, D.M., et al. , 2021, *A homogeneous spectroscopic analysis of a Kepler legacy sample of dwarfs for gravity-mode asteroseismology*, *A&A*, 650, A151 [\[ADS\]](#)
- Karinkuzhi, D., Van Eck, S., Jorissen, A., **Escorza, A.**, Shetye, S., Merle, T., Siess, L., Goriely, S. & Van Winckel, H., 2021, *Sr and Ba abundances: Comparing machine-learning with star-by-star analyses. High-resolution re-analysis of suspected LAMOST barium stars*, *A&A*, 654, A140 [\[ADS\]](#)
- Serenelli, A., Weiss, A., Aerts, C., Angelou, G.C., Baroch, D., Bastian, N., Beck, P.G., Bergemann, M., Bestenlehner, J.M., Czekala, I., ..., **Escorza, A.**, et al. , 2021, *Weighing stars from birth to death: mass determination methods across the HRD*, *A&ARv*, 29, 4 [\[ADS\]](#)
- Benisty, M., Bae, J., **Facchini, S.**, Keppler, M., Teague, R., Isella, A., Kurtovic, N.T., Pérez, L.M., Sierra, A., Andrews, S.M., et al. , 2021, *A Circumplanetary Disk around PDS70c*, *ApJL*, 916, L2 [\[ADS\]](#)
- Facchini, S.**, Teague, R., Bae, J., Benisty, M., Keppler, M. & Isella, A., 2021, *The Chemical Inventory of the Planet-hosting Disk PDS 70*, *AJ*, 162, 99 [\[ADS\]](#)
- Ginski, C., **Facchini, S.**, Huang, J., Benisty, M., Vaendel, D., Stapper, L., Dominik, C., Bae, J., Ménard, F., Muro-Arena, G., et al. , 2021, *Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): Late Infall Causing Disk Misalignment and Dynamic Structures in SU Aur*, *ApJL*, 908, L25 [\[ADS\]](#)
- Long, F., Bosman, A.D., Cazzoletti, P., van Dishoeck, E.F., Öberg, K.I., **Facchini, S.**, Tazzari, M., Guzmán, V.V. & Testi, L., 2021, *Exploring HNC and HCN line emission as probes of the protoplanetary disk temperature*, *A&A*, 647, A118 [\[ADS\]](#)
- Rosotti, G.P., Ilee, J.D., **Facchini, S.**, Tazzari, M., Booth, R.A., Clarke, C. & Kama, M., 2021, *High-resolution observations of molecular emission lines toward the CI Tau proto-planetary disc: planet-carved gaps or shadowing?*, *MNRAS*, 501, 3427 [\[ADS\]](#)
- Wölfer, L., **Facchini, S.**, Kurtovic, N.T., Teague, R., van Dishoeck, E.F., Benisty, M., Ercolano, B., Lodato, G., Miotello, A., Rosotti, G., et al. , 2021, *A highly non-Keplerian protoplanetary disc. Spiral structure in the gas disc of CQ Tau*, *A&A*, 648, A19 [\[ADS\]](#)
- Fahrion, K.**, Lyubenova, M., van de Ven, G., Hilker, M., Leaman, R., Falcón-Barroso, J., Bittner, A., Coccato, L., Corsini, E.M., Gadotti, D.A., et al. , 2021, *Diversity of nuclear star cluster formation mechanisms revealed by their star formation histories*, *A&A*, 650, A137 [\[ADS\]](#)
- Müller, O., Pawłowski, M.S., Lelli, F., **Fahrion, K.**, Rejkuba, M., Hilker, M., Kanehisa, J., Libeskind, N. & Jerjen, H., 2021, *The coherent motion of Cen A dwarf satellite galaxies remains a challenge for  $\Lambda$ CDM cosmology*, *A&A*, 645, L5 [\[ADS\]](#)
- Müller, O., **Fahrion, K.**, Rejkuba, M., Hilker, M., Lelli, F., Lutz, K., Pawłowski, M.S., Coccato, L., Anand, G.S. & Jerjen, H., 2021, *The properties of dwarf spheroidal galaxies in the Cen A group. Stellar populations, internal dynamics, and a heart-shaped Ha ring*, *A&A*, 645, A92 [\[ADS\]](#)
- Falkendal, T.**, Lehnert, M.D., Vernet, J., De Breuck, C. & Wang, W., 2021, *ALMA and MUSE observations reveal a quiescent multi-phase circumgalactic medium around the  $z \approx 3.6$  radio galaxy 4C 19.71*, *A&A*, 645, A120 [\[ADS\]](#)
- Faure, B., Bournaud, F., **Fensch, J.**, Daddi, E., Behrendt, M., Burkert, A. & Richard, J., 2021, *Hierarchical fragmentation in high redshift galaxies revealed by hydrodynamical simulations*, *MNRAS*, 502, 4641 [\[ADS\]](#)
- Adibekyan, V., Santos, N.C., Dorn, C., Sousa, S.G., Hakobyan, A.A., Bitsch, B., Mordasini, C., Barros, S.C.C., Delgado Mena, E., Demangeon, O.D.S., ..., **Figueira, P.**, et al. , 2021, *Composition of super-Earths, super-Mercuries, and their host stars*, *CoBAO*, 68, 447 [\[ADS\]](#)
- Adibekyan, V., Santos, N.C., Demangeon, O.D.S., Faria, J.P., Barros, S.C.C., Oshagh, M., **Figueira, P.**, Delgado Mena, E., Sousa, S.G., Israelian, G., et al. , 2021, *Stellar clustering and orbital architecture of planetary systems*, *A&A*, 649, A111 [\[ADS\]](#)
- Adibekyan, V., Dorn, C., Sousa, S.G., Santos, N.C., Bitsch, B., Israelian, G., Mordasini, C., Barros, S.C.C., Delgado Mena, E., Demangeon, O.D.S., ..., **Figueira, P.**, et al. , 2021, *A compositional link between rocky exoplanets and their host stars*, *Sci*, 374, 330 [\[ADS\]](#)
- Artigau, É., Hébrard, G., Cadieux, C., Vandal, T., Cook, N.J., Doyon, R., Gagné, J., Moutou, C., Martioli, E., Frasca, A., ..., **Figueira, P.**, et al. , 2021, *TOI-1278 B: SPIRou Unveils a Rare Brown Dwarf Companion in Close-in Orbit around an M Dwarf*, *AJ*, 162, 144 [\[ADS\]](#)
- Boucher, A., Darveau-Bernier, A., Pelletier, S., Lafrenière, D., Artigau, É., Cook, N.J., Allart, R., Radica, M., Doyon, R., Benneke, B., ..., **Figueira, P.**, et al. , 2021, *Characterizing Exoplanetary Atmospheres at High Resolution with SPIRou: Detection of Water on HD 189733 b*, *AJ*, 162, 233 [\[ADS\]](#)
- Cointepas, M., Almenara, J.M., Bonfils, X., Bouchy, F., Astudillo-Defru, N., Murgas, F., Otegi, J.F., Wyttenbach, A., Anderson, D.R., Artigau, É., ..., **Figueira, P.**, et al. , 2021, *TOI-269 b: an eccentric sub-Neptune transiting a M2 dwarf revisited with ExTrA*, *A&A*, 650, A145 [\[ADS\]](#)
- Demangeon, O.D.S., Zapatero Osorio, M.R., Alibert, Y., Barros, S.C.C., Adibekyan, V., Taberner, H.M., Antoniadis-Karnavas, A., Camacho, J.D., Suárez Mascareño, A., Oshagh, M., ..., **Figueira, P.**, et al. , 2021, *Warm terrestrial planet with half the mass of Venus transiting a nearby star*, *A&A*, 653, A41 [\[ADS\]](#)
- Gomes da Silva, J., Santos, N.C., Adibekyan, V., Sousa, S.G., Campante, T.L., **Figueira, P.**, Bossini, D., Delgado-Mena, E., Monteiro, M.J.P.F.G., de Laverny, P., et al. , 2021, *Stellar chromospheric activity of 1674 FGK stars from the AMBRE-HARPS sample. I. A catalogue of homogeneous chromospheric activity*, *A&A*, 646, A77 [\[ADS\]](#)

- Lam, K.W.F., Csizmadia, S., Astudillo-Defru, N., Bonfils, X., Gandolfi, D., Padovan, S., Esposito, M., Hellier, C., Hirano, T., Livingston, J., ..., **Figueira, P.**, et al. , 2021, *GJ 367b: A dense, ultrashort-period sub-Earth planet transiting a nearby red dwarf star*, *Sci*, 374, 1271 [\[ADS\]](#)
- Leleu, A., Alibert, Y., Hara, N.C., Hooton, M.J., Wilson, T.G., Robutel, P., Delisle, J.B., Laskar, J., Hoyer, S., Lovis, C., ..., **Figueira, P.**, et al. , 2021, *Six transiting planets and a chain of Laplace resonances in TOI-178*, *A&A*, 649, A26 [\[ADS\]](#)
- Lillo-Box, J., Faria, J.P., Suárez Mascareño, A., **Figueira, P.**, Sousa, S.G., Taberner, H., Lovis, C., Silva, A.M., Demangeon, O.D.S., Benatti, S., et al. , 2021, *HD 22496 b: The first ESPRESSO stand-alone planet discovery*, *A&A*, 654, A60 [\[ADS\]](#)
- Murgas, F., Astudillo-Defru, N., Bonfils, X., Crossfield, I., Almenara, J.M., Livingston, J., Stassun, K.G., Korth, J., Orell-Miquel, J., Morello, G., ..., **Figueira, P.**, et al. , 2021, *TOI-674b: An oasis in the desert of exo-Neptunes transiting a nearby M dwarf*, *A&A*, 653, A60 [\[ADS\]](#)
- Osborn, A., Armstrong, D.J., Cale, B., Brahm, R., Wittenmyer, R.A., Dai, F., Crossfield, I.J.M., Bryant, E.M., Adibekyan, V., Cloutier, R., ..., **Figueira, P.**, et al. , 2021, *TOI-431/HIP 26013: a super-Earth and a sub-Neptune transiting a bright, early K dwarf, with a third RV planet*, *MNRAS*, 507, 2782 [\[ADS\]](#)
- Osborn, H.P., Armstrong, D.J., Adibekyan, V., Collins, K.A., Delgado-Mena, E., Howell, S.B., Hellier, C., King, G.W., Lillo-Box, J., Nielsen, L.D., ..., **Figueira, P.**, et al. , 2021, *A hot mini-Neptune in the radius valley orbiting solar analogue HD 110113*, *MNRAS*, 502, 4842 [\[ADS\]](#)
- Otegi, J.F., Bouchy, F., Helled, R., Armstrong, D.J., Stalport, M., Psaridi, A., Delisle, J.B., Stassun, K.G., Delgado-Mena, E., Santos, N.C., ..., **Figueira, P.**, et al. , 2021, *TESS and HARPS reveal two sub-Neptunes around TOI 1062*, *A&A*, 653, A105 [\[ADS\]](#)
- Schmidt, T.M., Molaro, P., Murphy, M.T., Lovis, C., Cupani, G., Cristiani, S., Pepe, F.A., Rebolo, R., Santos, N.C., Abreu, M., ..., **Figueira, P.**, et al. , 2021, *Fundamental physics with ESPRESSO: Towards an accurate wavelength calibration for a precision test of the fine-structure constant*, *A&A*, 646, A144 [\[ADS\]](#)
- Seidel, J.V., Ehrenreich, D., Allart, R., Højimakers, H.J., Lovis, C., Bourrier, V., Pino, L., Wyttenbach, A., Adibekyan, V., Alibert, Y., ..., **Figueira, P.**, et al. , 2021, *Into the storm: diving into the winds of the ultra-hot Jupiter WASP-76 b with HARPS and ESPRESSO*, *A&A*, 653, A73 [\[ADS\]](#)
- Sozzetti, A., Damasso, M., Bonomo, A.S., Alibert, Y., Sousa, S.G., Adibekyan, V., Zapatero Osorio, M.R., González Hernández, J.I., Barros, S.C.C., Lillo-Box, J., ..., **Figueira, P.**, et al. , 2021, *A sub-Neptune and a non-transiting Neptune-mass companion unveiled by ESPRESSO around the bright late-F dwarf HD 5278 (TOI-130)*, *A&A*, 648, A75 [\[ADS\]](#)
- Taberner, H.M., Zapatero Osorio, M.R., Allart, R., Borsa, F., Casasayas-Barris, N., Demangeon, O., Ehrenreich, D., Lillo-Box, J., Lovis, C., Pallé, E., ..., **Figueira, P.**, et al. , 2021, *ESPRESSO high-resolution transmission spectroscopy of WASP-76 b*, *A&A*, 646, A158 [\[ADS\]](#)
- Van Eylen, V., Astudillo-Defru, N., Bonfils, X., Livingston, J., Hirano, T., Luque, R., Lam, K.W.F., Justesen, A.B., Winn, J.N., Gandolfi, D., ..., **Figueira, P.**, et al. , 2021, *Masses and compositions of three small planets orbiting the nearby M dwarf L231-32 (TOI-270) and the M dwarf radius valley*, *MNRAS*, 507, 2154 [\[ADS\]](#)
- Fiorellino, E.**, Elia, D., André, P., Men'shchikov, A., Pezzuto, S., Schisano, E., Könyves, V., Arzoumanian, D., Benedettini, M., Ward-Thompson, D., et al. , 2021, *The census of dense cores in the Serpens region from the Herschel Gould Belt Survey*, *MNRAS*, 500, 4257 [\[ADS\]](#)
- Fiorellino, E.**, Manara, C.F., Nisini, B., Ramsay, S., Antonucci, S., Giannini, T., Biazzo, K., Alcalà, J. & Fedele, D., 2021, *KMOS study of the mass accretion rate from Class I to Class II in NGC 1333\**, *A&A*, 650, A43 [\[ADS\]](#)
- Pezzuto, S., Benedettini, M., Di Francesco, J., Palmeirim, P., Sadavoy, S., Schisano, E., Li Causi, G., André, P., Arzoumanian, D., Bernard, J.P., ..., **Fiorellino, E.**, et al. , 2021, *Physical properties of the ambient medium and of dense cores in the Perseus star-forming region derived from Herschel Gould Belt Survey observations*, *A&A*, 645, A55 [\[ADS\]](#)
- Fragkoudi, F.**, Grand, R.J.J., Pakmor, R., Springel, V., White, S.D.M., Marinacci, F., Gomez, F.A. & Navarro, J.F., 2021, *Revisiting the tension between fast bars and the  $\Lambda$ CDM paradigm*, *A&A*, 650, L16 [\[ADS\]](#)
- Xi, H., Staveley-Smith, L., For, B.-Q., **Freudling, W.**, Zwaan, M., Hoppmann, L., Liang, F.-H. & Peng, B., 2021, *The Arecibo Ultra-Deep Survey*, *MNRAS*, 501, 4550 [\[ADS\]](#)
- Martig, M., Pinna, F., Falcón-Barroso, J., **Gadotti, D.A.**, Husemann, B., Minchev, I., Neumann, J., Ruiz-Lara, T. & van de Ven, G., 2021, *NGC 5746: Formation history of a massive disc-dominated galaxy*, *MNRAS*, 508, 2458 [\[ADS\]](#)
- Gravity Collaboration, Amorim, A., Bauböck, M., Bentz, M.C., Brandner, W., Bolzer, M., Clénet, Y., Davies, R., de Zeeuw, P.T., Dexter, J., ..., **Garcia, P.J.V.**, et al. , 2021, *A geometric distance to the supermassive black hole of NGC 3783*, *A&A*, 654, A85 [\[ADS\]](#)
- Gravity Collaboration, Amorim, A., Bauböck, M., Brandner, W., Bolzer, M., Clénet, Y., Davies, R., de Zeeuw, P.T., Dexter, J., Drescher, A., ..., **Garcia, P.J.V.**, et al. , 2021, *The central parsec of NGC 3783: a rotating broad emission line region, asymmetric hot dust structure, and compact coronal line region*, *A&A*, 648, A117 [\[ADS\]](#)
- Gendron-Marsolais, M.L.**, Hull, C.L.H., Perley, R., Rudnick, L., Kraft, R., Hlavacek-Larrondo, J., Fabian, A.C., Roediger, E., van Weeren, R.J., Richard-Laferrrière, A., et al. , 2021, *VLA Resolves Unexpected Radio Structures in the Perseus Cluster of Galaxies*, *ApJ*, 911, 56 [\[ADS\]](#)
- Gentile Fusillo, N.P.**, Tremblay, P.E., Cukanovaite, E., Vorontseva, A., Lallement, R., Hollands, M., Gänsicke, B.T., Burdge, K.B., McCleery, J. & Jordan, S., 2021, *A catalogue of white dwarfs in Gaia EDR3*, *MNRAS*, 508, 3877 [\[ADS\]](#)
- Gentile Fusillo, N.P.**, Manser, C.J., Gänsicke, B.T., Toloza, O., Koester, D., Denny, E., Brown, W.R., Farihi, J., Hollands, M.A., Hoskin, M.J., et al. , 2021, *White dwarfs with planetary remnants in the era of Gaia - I. Six emission line systems*, *MNRAS*, 504, 2707 [\[ADS\]](#)
- Manser, C.J., Denny, E., Gänsicke, B.T., Debes, J.H., **Gentile Fusillo, N.P.**, Hermes, J.J., Hollands, M., Izquierdo, P., Kaiser, B.C., Marsh, T.R., et al. , 2021, *Velocity-imaging the rapidly precessing planetary disc around the white dwarf HE 1349-2305 using Doppler tomography*, *MNRAS*, 508, 5657 [\[ADS\]](#)
- Hollands, M.A., Tremblay, P.-E., Gänsicke, B.T., Koester, D. & **Gentile-Fusillo, N.P.**, 2021, *Alkali metals in white dwarf atmospheres as tracers of ancient planetary crusts*, *NatAs*, 5, 451 [\[ADS\]](#)
- BICEP/Keck Collaboration, SPTpol Collaboration, Ade, P.A.R., Ahmed, Z., Amiri, M., Anderson, A.J., Austermann, J.E., Avva, J.S., Barkats, D., Thakur, R.B., ..., **George, E.M.**, et al. , 2021, *A demonstration of improved constraints on primordial gravitational waves with delensing*, *PhRvD*, 103, 022004 [\[ADS\]](#)
- Millea, M., Daley, C.M., Chou, T.L., Anderes, E., Ade, P.A.R., Anderson, A.J., Austermann, J.E., Avva, J.S., Beall, J.A., Bender, A.N., ..., **George, E.M.**, et al. , 2021, *Optimal Cosmic Microwave Background Lensing Reconstruction and Parameter Estimation with SPTpol Data*, *ApJ*, 922, 259 [\[ADS\]](#)
- Reichardt, C.L., Patil, S., Ade, P.A.R., Anderson, A.J., Austermann, J.E., Avva, J.S., Baxter, E., Beall, J.A., Bender, A.N., Benson, B.A., ..., **George, E.M.**, et al. ,

- 2021, *An Improved Measurement of the Secondary Cosmic Microwave Background Anisotropies from the SPT-SZ + SPTpol Surveys*, ApJ, 908, 199 [\[ADS\]](#)
- Jones, G.C., Vergani, D., Romano, M., **Ginolfi, M.**, Fudamoto, Y., Béthermin, M., Fujimoto, S., Lemaux, B.C., Morselli, L., Capak, P., et al. , 2021, *The ALPINE-ALMA [C II] Survey: kinematic diversity and rotation in massive star-forming galaxies at  $z \sim 4.4$ -5.9*, MNRAS, 507, 3540 [\[ADS\]](#)
- Pozzi, F., Calura, F., Fudamoto, Y., Dessauges-Zavadsky, M., Gruppioni, C., Talia, M., Zamorani, G., Béthermin, M., Cimatti, A., Enia, A., ..., **Ginolfi, M.**, et al. , 2021, *The ALPINE-ALMA [CII] survey. Dust mass budget in the early Universe*, A&A, 653, A84 [\[ADS\]](#)
- Romano, M., Cassata, P., Morselli, L., Jones, G.C., **Ginolfi, M.**, Zanella, A., Béthermin, M., Capak, P., Faisst, A., Le Fèvre, O., et al. , 2021, *The ALPINE-ALMA [CII] survey. The contribution of major mergers to the galaxy mass assembly at  $z \sim 5$* , A&A, 653, A111 [\[ADS\]](#)
- Geisler, D., Villanova, S., O'Connell, J.E., Cohen, R.E., Moni Bidin, C., Fernández-Trincado, J.G., Muñoz, C., Minniti, D., Zoccali, M., Rojas-Arriagada, A., ..., **Gran, F.**, et al. , 2021, *CAPOS: The bulge Cluster APOGee Survey. I. Overview and initial ASPCAP results*, A&A, 652, A157 [\[ADS\]](#)
- Gran, F.**, Zoccali, M., Rojas-Arriagada, A., Saviane, I., Contreras Ramos, R., Beaton, R., Bizyaev, D., Cohen, R.E., Fernández-Trincado, J.G., García-Hernández, D.A., et al. , 2021, *APOGEE view of the globular cluster NGC 6544*, MNRAS, 504, 3494 [\[ADS\]](#)
- Dottori, H., Díaz, R.J., **Grosbøl, P.**, Bueno, A. & Gimeno, G., 2021, *The Population of H II Regions in NGC 7020*, AJ, 161, 191 [\[ADS\]](#)
- Do, A., Shappee, B.J., De Cuyper, J.-P., Tonry, J.L., Hunt, C., Schweizer, F., Phillips, M.M., Burns, C.R., Beaton, R. & **Hainaut, O.**, 2021, *Blast from the past: constraining progenitor models of SN 1972E*, MNRAS, 508, 3649 [\[ADS\]](#)
- Hainaut, O.R.**, Micheli, M., Cano, J.L., Martín, J., Faggioli, L. & Cennamo, R., 2021, *Elimination of a virtual impactor of 2006 QV89 via deep non-detection*, A&A, 653, A124 [\[ADS\]](#)
- Piro, C., Meech, K.J., Bufanda, E., Kleyna, J.T., Keane, J.V., **Hainaut, O.**, Micheli, M., Bauer, J., Denneau, L., Weryk, R., et al. , 2021, *Characterizing the Manx Candidate A/2018 V3*, PSJ, 2, 33 [\[ADS\]](#)
- Harrington, K.C.**, Weiss, A., Yun, M.S., Magnelli, B., Sharon, C.E., Leung, T.K.D., Vishwas, A., Wang, Q.D., Frayer, D.T., Jiménez-Andrade, E.F., et al. , 2021, *Turbulent Gas in Lensed Planck-selected Starbursts at  $z \sim 1$ -3.5*, ApJ, 908, 95 [\[ADS\]](#)
- Jarugula, S., Vieira, J.D., Weiss, A., Spilker, J.S., Aravena, M., Archipley, M., Béthermin, M., Chapman, S.C., Dong, C., Greve, T.R., **Harrington, K.**, et al. , 2021, *Molecular Line Observations in Two Dusty Star-forming Galaxies at  $z = 6.9$* , ApJ, 921, 97 [\[ADS\]](#)
- Bisigello, L., Gruppioni, C., Calura, F., Feltre, A., Pozzi, F., Vignali, C., Barchiesi, L., Rodighiero, G., Negrello, M., Carrera, F.J., ..., **Hatziminaoglou, E.**, et al. , 2021, *Simulating infrared spectro-photometric surveys with a SPRITZ, PASA, 38, e064* [\[ADS\]](#)
- Lacy, M., Surace, J.A., Farrah, D., Nyland, K., Afonso, J., Brandt, W.N., Clements, D.L., Lagos, C.D.P., Maraston, C., Pforr, J., ..., **Hatziminaoglou, E.**, et al. , 2021, *A Spitzer survey of Deep Drilling Fields to be targeted by the Vera C. Rubin Observatory Legacy Survey of Space and Time*, MNRAS, 501, 892 [\[ADS\]](#)
- Spinoglio, L., Mordini, S., Fernández-Ontiveros, J.A., Alonso-Herrero, A., Armus, L., Bisigello, L., Calura, F., Carrera, F.J., Cooray, A., Dannerbauer, H., ..., **Hatziminaoglou, E.**, et al. , 2021, *Mid-IR cosmological spectrophotometric surveys from space: Measuring AGN and star formation at the cosmic noon with a SPICA-like mission*, PASA, 38, e021 [\[ADS\]](#)
- Fürst, F., Walton, D.J., **Heida, M.**, Bachetti, M., Pinto, C., Middleton, M.J., Brightman, M., Earnshaw, H.P., Barret, D., Fabian, A.C., et al. , 2021, *Long-term pulse period evolution of the ultra-luminous X-ray pulsar NGC 7793 P13*, A&A, 651, A75 [\[ADS\]](#)
- Walton, D.J., **Heida, M.**, Bachetti, M., Fürst, F., Brightman, M., Earnshaw, H., Evans, P.A., Fabian, A.C., Grefenstette, B.W., Harrison, F.A., et al. , 2021, *A new transient ultraluminous X-ray source in NGC 7090*, MNRAS, 501, 1002 [\[ADS\]](#)
- Bacon, R., Mary, D., Garel, T., Blaizot, J., Maseda, M., Schaye, J., Wisotzki, L., Conseil, S., Brinchmann, J., Leclercq, F., ..., **Herenz, C.**, et al. , 2021, *The MUSE Extremely Deep Field: The cosmic web in emission at high redshift*, A&A, 647, A107 [\[ADS\]](#)
- Herrero Alonso, Y., Krumpel, M., Wisotzki, L., Miyaji, T., Garel, T., Schmidt, K.B., Diener, C., Urrutia, T., Kerutt, J., **Herenz, E.C.**, et al. , 2021, *The MUSE-Wide survey: Three-dimensional clustering analysis of Lyman- $\alpha$  emitters at  $3.3 < z < 6$* , A&A, 653, A136 [\[ADS\]](#)
- Schmidt, K.B., Kerutt, J., Wisotzki, L., Urrutia, T., Feltre, A., Maseda, M.V., Nanayakkara, T., Bacon, R., Boogaard, L.A., Conseil, S., ..., **Herenz, E.C.**, et al. , 2021, *Recovery and analysis of rest-frame UV emission lines in 2052 galaxies observed with MUSE at  $1.5 < z < 6.4$* , A&A, 654, A80 [\[ADS\]](#)
- Wofford, A., Vidal-García, A., Feltre, A., Chevillard, J., Charlot, S., Stark, D.P., **Herenz, E.C.** & Hayes, M., 2021, *Stars and gas in the most metal-poor galaxies - I. COS and MUSE observations of SBS 0335-052E*, MNRAS, 500, 2908 [\[ADS\]](#)
- Heritier, C.T.**, Fusco, T., Oberti, S., Neichel, B., Esposito, S. & Madec, P.Y., 2021, *SPRINT, system parameters recurrent invasive tracking: a fast and least-cost online calibration strategy for adaptive optics*, MNRAS, 504, 4274 [\[ADS\]](#)
- Bischetti, M., Feruglio, C., Piconcelli, E., Duras, F., Pérez-Torres, M., **Herrero, R.**, Venturi, G., Carniani, S., Bruni, G., Gavignaud, I., et al. , 2021, *The WISSH quasars project. IX. Cold gas content and environment of luminous QSOs at  $z \sim 2.4$ -4.7*, A&A, 645, A33 [\[ADS\]](#)
- Gallego-Calvente, A.T., Schödel, R., Alberdi, A., **Herrero-Illana, R.**, Najarro, F., Yusef-Zadeh, F., Dong, H., Sanchez-Bermudez, J., Shahzamanian, B. & Nogueras-Lara, F., 2021, *Radio observations of massive stars in the Galactic centre: The Arches Cluster*, A&A, 647, A110 [\[ADS\]](#)
- Goddi, C., Martí-Vidal, I., Messias, H., Bower, G.C., Broderick, A.E., Dexter, J., Marrone, D.P., Moscibrodzka, M., Nagai, H., Algaba, J.C., ..., **Herrero-Illana, R.**, et al. , 2021, *Polarimetric Properties of Event Horizon Telescope Targets from ALMA*, ApJL, 910, L14 [\[ADS\]](#)
- Witzel, G., Martínez, G., Willner, S.P., Becklin, E.E., Boyce, H., Do, T., Eckart, A., Fazio, G.G., Ghez, A., Gurwell, M.A., ..., **Herrero-Illana, R.**, et al. , 2021, *Rapid Variability of Sgr A\* across the Electromagnetic Spectrum*, ApJ, 917, 73 [\[ADS\]](#)
- Calabrò, A., Castellano, M., Pentericci, L., Fontanot, F., Menci, N., Cullen, F., McLure, R., Bolzonella, M., Cimatti, A., Marchi, F., ..., **Hibon, P.**, et al. , 2021, *The VANDELS survey: The relation between the UV continuum slope and stellar metallicity in star-forming galaxies at  $z \sim 3$* , A&A, 646, A39 [\[ADS\]](#)
- Fontanot, F., Calabrò, A., Talia, M., Mannucci, F., Castellano, M., Cresci, G., De Lucia, G., Gallazzi, A., Hirschmann, M., Pentericci, L., ..., **Hibon, P.**, et al. , 2021, *The evolution of the mass-metallicity relations from the VANDELS survey and the GAEA semi-analytic model*, MNRAS, 504, 4481 [\[ADS\]](#)
- Hu, W., Wang, J., Infante, L., Rhoads, J.E., Zheng, Z.-Y., Yang, H., Malhotra, S., Barrientos, L.F., Jiang, C., González-López, J., ..., **Hibon, P.**, et al. , 2021, *A Lyman- $\alpha$  protocluster at redshift 6.9*, NatAs, 5, 485 [\[ADS\]](#)
- Hughes, M.E., Jethwa, P., **Hilker, M.**, van de Ven, G., Martig, M., Pfeffer, J.L., Bastian, N., Krujissen, J.M.D.,



- Trujillo-Gomez, S. & Reina-Campos, M., 2021, *What to expect when using globular clusters as tracers of the total mass distribution in Milky Way-mass galaxies*, MNRAS, 502, 2828 [ADS](#)
- Iodice, E., La Marca, A., **Hilker, M.**, Cantiello, M., D'Agò, G., Gullieusik, M., Rejkuba, M., Arnaboldi, M., Spavone, M., Spiniello, C., et al., 2021, *Formation of an ultra-diffuse galaxy in the stellar filaments of NGC 3314A: Caught in the act?*, A&A, 652, L11 [ADS](#)
- Saifollahi, T., Janz, J., Peletier, R.F., Cantiello, M., **Hilker, M.**, Mieske, S., Valentijn, E.A., Venhola, A. & Kleijn, G.V., 2021, *Ultra-compact dwarfs beyond the centre of the Fornax galaxy cluster: hints of UCD formation in low-density environments*, MNRAS, 504, 3580 [ADS](#)
- Su, A.H., Salo, H., Janz, J., Laurikainen, E., Venhola, A., Peletier, R.F., Iodice, E., **Hilker, M.**, Cantiello, M., Napolitano, N., et al., 2021, *The Fornax Deep Survey (FDS) with the VST. XI. The search for signs of preprocessing between the Fornax main cluster and Fornax A group*, A&A, 647, A100 [ADS](#)
- Holzlöhrner, R.**, Kimeswenger, S., Kausch, W. & Noll, S., 2021, *Bolometric night sky temperature and subcooling of telescope structures*, A&A, 645, A32 [ADS](#)
- Holzlöhrner, R.**, Kimeswenger, S., Kausch, W. & Noll, S., 2021, *Bolometric night sky temperature and subcooling of telescope structures*, A&A, 645, A32 [ADS](#)
- Houllé, M.**, Vigan, A., Carlotti, A., Choquet, É., Cantalloube, F., Phillips, M.W., Sauvage, J.F., Schwartz, N., Otten, G.P.P.L., Baraffe, I., et al., 2021, *Direct imaging and spectroscopy of exoplanets with the ELT/HARMONI high-contrast module*, A&A, 652, A67 [ADS](#)
- Hsieh, P.-Y.**, Koch, P.M., Kim, W.-T., Martín, S., Yen, H.-W., Carpenter, J.M., Harada, N., Turner, J.L., Ho, P.T.P. & Tang, Y.-W., 2021, *The Circumnuclear Disk Revealed by ALMA. I. Dense Clouds and Tides in the Galactic Center*, ApJ, 913, 94 [ADS](#)
- Desidera, S., Chauvin, G., Bonavita, M., Messina, S., LeCoroller, H., Schmidt, T., Gratton, R., Lazzoni, C., Meyer, M., Schlieder, J., ..., **Hubin, N.**, et al., 2021, *The SPHERE infrared survey for exoplanets (SHINE). I. Sample definition and target characterization*, A&A, 651, A70 [ADS](#)
- Vigan, A., Fontanive, C., Meyer, M., Biller, B., Bonavita, M., Feldt, M., Desidera, S., Marleau, G.D., Emsenhuber, A., Galicher, R., ..., **Hubin, N.**, et al., 2021, *The SPHERE infrared survey for exoplanets (SHINE). III. The demographics of young giant exoplanets below 300 au with SPHERE*, A&A, 651, A72 [ADS](#)
- Hutter, D.J., Tycner, C., Zavala, R.T., Benson, J.A., **Hummel, C.A.** & Zirm, H., 2021, *Surveying the Bright Stars by Optical Interferometry. III. A Magnitude-limited Multiplicity Survey of Classical Be Stars*, ApJS, 257, 69 [ADS](#)
- Gurvits, L.I., Paragi, Z., Casasola, V., Conway, J., Davelaar, J., Falcke, H., Fender, R., Frey, S., Fromm, C.M., Miró, C.G., ..., **Humphreys, E.**, et al., 2021, *THEZA: TeraHertz Exploration and Zooming-in for Astrophysics*, ExA, 51, 559 [ADS](#)
- Olofsson, H., Black, J.H., Khouri, T., Vlemmings, W.H.T., **Humphreys, E.M.L.**, Lindqvist, M., Maercker, M., Nyman, L., Ramstedt, S. & Taføya, D., 2021, *Heavy-element Rydberg transition line emission from the post-giant-evolution star HD 101584*, A&A, 651, A35 [ADS](#)
- Stanley, F., Knudsen, K.K., Aalto, S., Fan, L., Falstad, N. & **Humphreys, E.**, 2021, *Detection of H<sub>2</sub>O and OH\* in z > 3 hot dust-obscured galaxies*, A&A, 646, A178 [ADS](#)
- Lehmann, L.T., **Hussain, G.A.J.**, Vidotto, A.A., Jardine, M.M. & Mackay, D.H., 2021, *Identifying solar-like magnetic cycles with Zeeman-Doppler-Imaging*, MNRAS, 500, 1243 [ADS](#)
- Nicholson, B.A., **Hussain, G.**, Donati, J.F., Wright, D., Folsom, C.P., Wittenmyer, R., Okumura, J. & Carter, B.D., 2021, *The surface magnetic activity of the weak-line T Tauri stars TWA 7 and TWA 25*, MNRAS, 504, 2461 [ADS](#)
- Şenavcı, H.V., Kılıçoğlu, T., Işık, E., **Hussain, G.A.J.**, Montes, D., Bahar, E. & Solanki, S.K., 2021, *Observing and modelling the young solar analogue EK Draconis: starspot distribution, elemental abundances, and evolutionary status*, MNRAS, 502, 3343 [ADS](#)
- Iani, E.**, Zanella, A., Vernet, J., Richard, J., Gronke, M., Harrison, C.M., Arrigoni-Battaia, F., Rodighiero, G., Burkert, A., Behrendt, M., et al., 2021, *Stellar feedback in a clumpy galaxy at z ~ 3.4*, MNRAS, 507, 3830 [ADS](#)
- Chené, A.-N., Benjamin, R.A., Ramírez-Alegria, S., Borissova, J., Kurtev, R., Moni Bidin, C., Mauro, F., Lucas, P., Guo, Z., Smith, L.C., ..., **Ivanov, V.D.**, et al., 2021, *Assessing the Stellar Population and the Environment of an H II Region on the Far Side of the Galaxy*, ApJ, 911, 91 [ADS](#)
- Choudhury, S., de Grijs, R., Bekki, K., Cioni, M.-R.L., **Ivanov, V.D.**, van Loon, J.T., Miller, A.E., Niederhofer, F., Oliveira, J.M., Ripepi, V., et al., 2021, *The VMC survey - XLIV: mapping metallicity trends in the large magellanic cloud using near-infrared passbands*, MNRAS, 507, 4752 [ADS](#)
- El Youssoufi, D., Cioni, M.-R.L., Bell, C.P.M., de Grijs, R., Groenewegen, M.A.T., **Ivanov, V.D.**, Matijević, G., Niederhofer, F., Oliveira, J.M., Ripepi, V., et al., 2021, *Stellar substructures in the periphery of the Magellanic Clouds with the VISTA hemisphere survey from the red clump and other tracers*, MNRAS, 505, 2020 [ADS](#)
- Gasparri, D., Morelli, L., **Ivanov, V.D.**, François, P., Pizzella, A., Coccato, L., Corsini, E.M., Dalla Bontà, E., Costantin, L. & Cesetti, M., 2021, *Near-infrared spectroscopic indices for unresolved stellar populations - II. Index measurements*, MNRAS, 507, 4669 [ADS](#)
- Mazzi, A., Girardi, L., Zaggia, S., Pastorelli, G., Rubele, S., Bressan, A., Cioni, M.-R.L., Clementini, G., Cusano, F., Rocha, J.P., ..., **Ivanov, V.D.**, et al., 2021, *The VMC survey - XLIII. The spatially resolved star formation history across the Large Magellanic Cloud*, MNRAS, 508, 245 [ADS](#)
- Messineo, M., Figer, D.F., Kudritzki, R.-P., Zhu, Q., Menten, K.M., **Ivanov, V.D.** & Chen, C.H.R., 2021, *New Infrared Spectral Indices of Luminous Cold Stars: From Early K to M Types*, AJ, 162, 187 [ADS](#)
- Minev, M., **Ivanov, V.D.**, Trifonov, T., Ovcharov, E., Fabrika, S., Sholukhova, O., Vinokurov, A., Valcheva, A. & Nedialkov, P., 2021, *Periodic variability of the z = 2.0 quasar QSO B1312+7837*, MNRAS, 508, 2937 [ADS](#)
- Niederhofer, F., Cioni, M.-R.L., Rubele, S., Schmidt, T., Diaz, J.D., Matijević, G., Bekki, K., Bell, C.P.M., de Grijs, R., El Youssoufi, D., **Ivanov, V.D.**, et al., 2021, *The VMC survey - XLI. Stellar proper motions within the Small Magellanic Cloud*, MNRAS, 502, 2859 [ADS](#)
- Smith, L.C., Koposov, S.E., Lucas, P.W., Sanders, J.L., Minniti, D., Udalski, A., Evans, N.W., Aguado, D., **Ivanov, V.D.**, Saito, R.K., et al., 2021, *VVV-WIT-08: the giant star that blinked*, MNRAS, 505, 1992 [ADS](#)
- Tatton, B.L., van Loon, J.T., Cioni, M.-R.L., Bekki, K., Bell, C.P.M., Choudhury, S., de Grijs, R., Groenewegen, M.A.T., **Ivanov, V.D.**, Marconi, M., et al., 2021, *The VMC Survey - XL. Three-dimensional structure of the Small Magellanic Cloud as derived from red clump stars*, MNRAS, 504, 2983 [ADS](#)
- Tikhonov, N.A., Galazutdinova, O.A., Karataeva, G.M., Sholukhova, O.N., Valcheva, A., **Ivanov, V.D.** & Nedialkov, P.L., 2021, *The Brightest Stars of Irregular and Low-Mass Spiral Galaxies*, AstBu, 76, 381 [ADS](#)
- Garratt, T.K., Coppin, K.E.K., Geach, J.E., Almaini, O., Hartley, W.G., Maltby, D.T., Simpson, C.J., Wilkinson, A., Conselice, C.J., Franco, M., **Ivison, R.J.**, et al., 2021, *Cosmic Evolution of the H<sub>2</sub> Mass Density and the Epoch of Molecular Gas*, ApJ, 912, 62 [ADS](#)

- Montaña, A., Zavala, J.A., Aretxaga, I., Hughes, D.H., **Ivion, R.J.**, Pope, A., Sánchez-Argüelles, D., Wilson, G.W., Yun, M., Cantua, O.A., et al. , 2021, *Early science with the Large Millimeter Telescope: a 1.1 mm AzTEC survey of red-Herschel dusty star-forming galaxies*, MNRAS, 505, 5260 [\[ADS\]](#)
- Riechers, D.A., Nayyeri, H., Burgarella, D., Emonts, B.H.C., Clements, D.L., Cooray, A., **Ivion, R.J.**, Oliver, S., Pérez-Fournon, I. & Rigopoulou, D., 2021, *Rise of the Titans: Gas Excitation and Feedback in a Binary Hyperluminous Dusty Starburst Galaxy at  $z \sim 6$* , ApJ, 907, 62 [\[ADS\]](#)
- Smail, I., Dudzevičiūtė, U., Stach, S.M., Almaini, O., Birkin, J.E., Chapman, S.C., Chen, C.-C., Geach, J.E., Gullberg, B., Hodge, J.A., ..., **Ivion, R.J.**, et al. , 2021, *An ALMA survey of the S2CLS UDS field: optically invisible submillimetre galaxies*, MNRAS, 502, 3426 [\[ADS\]](#)
- Stacey, H.R., McKean, J.P., Powell, D.M., Vegetti, S., Rizzo, F., Spingola, C., Auger, M.W., **Ivion, R.J.** & van der Werf, P.P., 2021, *The rocky road to quiescence: compaction and quenching of quasar host galaxies at  $z \sim 2$* , MNRAS, 500, 3667 [\[ADS\]](#)
- Stach, S.M., Smail, I., Amvrosiadis, A., Swinbank, A.M., Dudzevičiūtė, U., Geach, J.E., Almaini, O., Birkin, J.E., Chen, C.-C., Conselice, C.J., ..., **Ivion, R.J.**, et al. , 2021, *An ALMA survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS field: halo masses for submillimetre galaxies*, MNRAS, 504, 172 [\[ADS\]](#)
- Umehata, H., Smail, I., Steidel, C.C., Hayes, M., Scott, D., Swinbank, A.M., **Ivion, R.J.**, Nagao, T., Kubo, M., Nakanishi, K., et al. , 2021, *ALMA Observations of Ly $\alpha$  Blob 1: Multiple Major Mergers and Widely Distributed Interstellar Media*, ApJ, 918, 69 [\[ADS\]](#)
- Vidal-García, A., Falgarone, E., Arrigoni Battaia, F., Godard, B., **Ivion, R.J.**, Zwaan, M.A., Herrera, C., Frayer, D., Andreani, P. & Li, Q., 2021, *Where infall meets outflows: turbulent dissipation probed by CH $^+$  and Ly $\alpha$  in the starburst/AGN galaxy group SMM J02399-0136 at  $z \sim 2.8$* , MNRAS, 506, 2551 [\[ADS\]](#)
- Carrasco-González, C., Sanna, A., Rodríguez-Kamenetzky, A., Moscadelli, L., Hoare, M., Torrelles, J.M., Galván-Madrid, R. & **Izquierdo, A.F.**, 2021, *Zooming into the Collimation Zone in a Massive Protostellar Jet*, ApJ, 914, L1 [\[ADS\]](#)
- Izquierdo, A.F.**, Testi, L., Facchini, S., Rosotti, G.P. & van Dishoeck, E.F., 2021, *The Disc Miner. I. A statistical framework to detect and quantify kinematical perturbations driven by young planets in discs*, A&A, 650, A179 [\[ADS\]](#)
- Izquierdo, A.F.**, Smith, R.J., Glover, S.C.O., Klessen, R.S., Treß, R.G., Sormani, M.C., Clark, P.C., Duarte-Cabral, A. & Zucker, C., 2021, *The Cloud Factory II: gravoturbulent kinematics of resolved molecular clouds in a galactic potential*, MNRAS, 500, 5268 [\[ADS\]](#)
- Jarvis, M.E.**, Harrison, C.M., Mainieri, V., Alexander, D.M., Arrigoni Battaia, F., Calistro Rivera, G., Circosta, C., Costa, T., De Breuck, C., Edge, A.C., et al. , 2021, *The quasar feedback survey: discovering hidden Radio-AGN and their connection to the host galaxy ionized gas*, MNRAS, 503, 1780 [\[ADS\]](#)
- Silpa, S., Kharb, P., Harrison, C.M., Ho, L.C., **Jarvis, M.E.**, Ishwara-Chandra, C.H. & Sebastian, B., 2021, *Outflows in the radio-intermediate quasar III Zw 2: a polarization study with the EVLA and uGMRT*, MNRAS, 507, 991 [\[ADS\]](#)
- Jimenez-Gallardo, A.**, Massaro, F., Balmaverde, B., Paggi, A., Capetti, A., Forman, W.R., Kraft, R.P., Baldi, R.D., Mahatma, V.H., Mazzucchelli, C., et al. , 2021, *Raining in MKW 3 s: A Chandra-MUSE Analysis of X-Ray Cold Filaments around 3CR 318.1*, ApJ, 912, L25 [\[ADS\]](#)
- Missaglia, V., Massaro, F., Liuzzo, E., Paggi, A., Kraft, R.P., Forman, W.R., **Jimenez-Gallardo, A.**, Madrid, J.P., Ricci, F., Stuardi, C., et al. , 2021, *Hidden Treasures in the Unknown 3CR Extragalactic Radio Sky: A Multiwavelength Approach*, ApJS, 255, 18 [\[ADS\]](#)
- Bergmann, C., **Jones, M.I.**, Zhao, J., Mustill, A.J., Brahm, R., Torres, P., Wittenmyer, R.A., Gunn, F., Pollard, K.R., Zapata, A., et al. , 2021, *HD 76920 b pinned down: A detailed analysis of the most eccentric planetary system around an evolved star*, PASA, 38, e019 [\[ADS\]](#)
- Hobson, M.J., Brahm, R., Jordán, A., Espinoza, N., Kossakowski, D., Henning, T., Rojas, F., Schlecker, M., Sarkis, P., Trifonov, T., ..., **Jones, M.**, et al. , 2021, *A Transiting Warm Giant Planet around the Young Active Star TOI-201*, AJ, 161, 235 [\[ADS\]](#)
- Jones, M.I.**, Wittenmyer, R., Aguilera-Gómez, C., Soto, M.G., Torres, P., Trifonov, T., Jenkins, J.S., Zapata, A., Sarkis, P., Zakhohay, O., et al. , 2021, *Four Jovian planets around low-luminosity giant stars observed by the EXPRESS and PPPS*, A&A, 646, A131 [\[ADS\]](#)
- Soto, M.G., **Jones, M.I.** & Jenkins, J.S., 2021, *SPECIES. II. Stellar parameters of the EXPRESS giant star sample*, A&A, 647, A157 [\[ADS\]](#)
- Inomata, A. & **Junker, G.**, 2021, *Power Law Duality in Classical and Quantum Mechanics*, Symm, 13, 409 [\[ADS\]](#)
- Junker, G.**, 2021, *On the Supersymmetry of the Klein-Gordon Oscillator*, Symm, 13, 835 [\[ADS\]](#)
- Zare, S., Hassanabadi, H. & **Junker, G.**, 2021, *Relativistic free fermions in spiral dislocation space-time with a distortion of a radial line into a spiral*, IJMPA, 36, 2150215 [\[ADS\]](#)
- Gupta, K.K., Ricci, C., Tortosa, A., Ueda, Y., Kawamuro, T., Koss, M., Trakhtenbrot, B., Oh, K., Bauer, F.E., Ricci, F., ..., **Kakkad, D.**, et al. , 2021, *BAT AGN Spectroscopic Survey XXVII: scattered X-Ray radiation in obscured active galactic nuclei*, MNRAS, 504, 428 [\[ADS\]](#)
- Scholtz, J., Harrison, C.M., Rosario, D.J., Alexander, D.M., Knudsen, K.K., Stanley, F., Chen, C.-C., **Kakkad, D.**, Mainieri, V. & Mullaney, J., 2021, *The impact of ionized outflows from  $z \sim 2.5$  quasars is not through instantaneous in situ quenching: the evidence from ALMA and VLT/SINFONI*, MNRAS, 505, 5469 [\[ADS\]](#)
- Kammerer, J.**, Lacour, S., Stolker, T., Mollière, P., Sing, D.K., Nasedkin, E., Kervella, P., Wang, J.J., Ward-Duong, K., Nowak, M., et al. , 2021, *GRAVITY K-band spectroscopy of HD 206893 B. Brown dwarf or exoplanet*, A&A, 652, A57 [\[ADS\]](#)
- Kammerer, J.**, Kasper, M., Ireland, M.J., Köhler, R., Laugier, R., Martinache, F., Siebenmorgen, R., van den Ancker, M.E., van Boekel, R., Herbst, T.M., et al. , 2021, *Mid-infrared photometry of the T Tauri triple system with kernel phase interferometry*, A&A, 646, A36 [\[ADS\]](#)
- Rains, A.D., Žerjal, M., Ireland, M.J., Nordlander, T., Bessell, M.S., Casagrande, L., Onken, C.A., Joyce, M., **Kammerer, J.** & Abbot, H., 2021, *Characterization of 92 southern TESS candidate planet hosts and a new photometric [Fe/H] relation for cool dwarfs*, MNRAS, 504, 5788 [\[ADS\]](#)
- Žerjal, M., Rains, A.D., Ireland, M.J., Zhou, G., **Kammerer, J.**, Wallace, A., Orenstein, B.J., Nordlander, T., Abbot, H. & Chang, S.-W., 2021, *A spectroscopically confirmed Gaia-selected sample of 318 new young stars within  $\sim 200$  pc*, MNRAS, 503, 938 [\[ADS\]](#)
- Billar, B.A., Apai, D., Bonnefoy, M., Desidera, S., Gratton, R., **Kasper, M.**, Kenworthy, M., Lagrange, A.-M., Lazzoni, C., Mesa, D., et al. , 2021, *A high-contrast search for variability in HR 8799bc with VLT-SPHERE*, MNRAS, 503, 743 [\[ADS\]](#)
- Arzoumanian, D., Furuya, R.S., Hasegawa, T., Tahani, M., Sadavoy, S., Hull, C.L.H., Johnstone, D., Koch, P.M., Inutsuka, S., Doi, Y., ..., **Kemper, F.**, et al. , 2021, *Dust polarized emission observations of NGC 6334. BISTRO reveals the details of the complex but organized magnetic field structure of the high-mass*

- star-forming hub-filament network, *A&A*, 647, A78 [\[ADS\]](#)
- Eswaraiah, C., Li, D., Furuya, R.S., Hasegawa, T., Ward-Thompson, D., Qiu, K., Ohashi, N., Pattle, K., Sadavoy, S., Hull, C.L.H., ..., **Kemper, F.**, et al. , 2021, *The JCMT BISTRO Survey: Revealing the Diverse Magnetic Field Morphologies in Taurus Dense Cores with Sensitive Submillimeter Polarimetry*, *ApJL*, 912, L27 [\[ADS\]](#)
- Jones, O.C., Nally, C., Sharp, M.J., McDonald, I., Boyer, M.L., Meixner, M., **Kemper, F.**, Ferguson, A.M.N., Goldman, S.R. & Rich, R.M., 2021, *Infrared variable stars in the compact elliptical galaxy M32*, *MNRAS*, 504, 565 [\[ADS\]](#)
- Lyo, A.R., Kim, J., Sadavoy, S., Johnstone, D., Berry, D., Pattle, K., Kwon, W., Bastien, P., Onaka, T., Di Francesco, J., ..., **Kemper, F.**, et al. , 2021, *The JCMT BISTRO Survey: An 850/450  $\mu$ m Polarization Study of NGC 2071IR in Orion B*, *ApJ*, 918, 85 [\[ADS\]](#)
- Ngoc, N.B., Diep, P.N., Parsons, H., Pattle, K., Hoang, T., Ward-Thompson, D., Tram, L.N., Hull, C.L.H., Tahani, M., Furuya, R., ..., **Kemper, F.**, et al. , 2021, *Observations of Magnetic Fields Surrounding LkHa 101 Taken by the BISTRO Survey with JCMT-POL-2*, *ApJ*, 908, 10 [\[ADS\]](#)
- Smith, M.W.L., Eales, S.A., Williams, T.G., Lee, B., Li, Z., Barmby, P., Bureau, M., Chapman, S., Cho, B.S., Chung, A., ..., **Kemper, F.**, et al. , 2021, *The HASHTAG Project: The First Submillimeter Images of the Andromeda Galaxy from the Ground*, *ApJS*, 257, 52 [\[ADS\]](#)
- Cañameras, R., Nesvadba, N.P.H., **Kneissl, R.**, König, S., Yang, C., Beelen, A., Hill, R., Le Floch, E. & Scott, D., 2021, *Planck's Dusty GEMS. VIII. Dense-gas reservoirs in the most active dusty starbursts at  $z \sim 3$* , *A&A*, 645, A45 [\[ADS\]](#)
- Farren, G.S., Partridge, B., **Kneissl, R.**, Aiola, S., Datta, R., Gralla, M. & Li, Y., 2021, *Confirming the Calibration of ALMA Using Planck Observations*, *ApJS*, 256, 19 [\[ADS\]](#)
- Bellotti, S. & **Korhonen, H.**, 2021, *Simulating starspot activity jitter for spectral types F-M: Realistic estimates for a representative sample of known exoplanet hosts*, *AN*, 342, 926 [\[ADS\]](#)
- Jones, D.O., Foley, R.J., Narayan, G., Hjorth, J., Huber, M.E., Aleo, P.D., Alexander, K.D., Angus, C.R., Auchettl, K., Baldassare, V.F., ..., **Korhonen, H.**, et al. , 2021, *The Young Supernova Experiment: Survey Goals, Overview, and Operations*, *ApJ*, 908, 143 [\[ADS\]](#)
- Korhonen, H.**, Roettenbacher, R.M., Gu, S., Grundahl, F., Andersen, M.F., Henry, G.W., Jessen-Hansen, J., Antoci, V. & Pallé, P.L., 2021, *Observing the changing surface structures of the active K giant  $\sigma$  Geminorum with SONG*, *A&A*, 646, A6 [\[ADS\]](#)
- Gravity Collaboration, **Koutoulaki, M.**, Garcia Lopez, R., Natta, A., Fedriani, R., Caratti O Garatti, A., Ray, T.P., Coffey, D., Brandner, W., Dougados, C., et al. , 2021, *The GRAVITY young stellar object survey. IV. The CO overtone emission in 51 Oph at sub-au scales*, *A&A*, 645, A50 [\[ADS\]](#)
- Kravchenko, K.**, Jorissen, A., Van Eck, S., Merle, T., Chiavassa, A., Paladini, C., Freytag, B., Plez, B., Montargès, M. & Van Winckel, H., 2021, *Atmosphere of Betelgeuse before and during the Great Dimming event revealed by tomography*, *A&A*, 650, L17 [\[ADS\]](#)
- Fernández-Trincado, J.G., Beers, T.C., Minniti, D., Carigi, L., Placco, V.M., Chun, S.-H., Lane, R.R., Geisler, D., Villanova, S., Souza, S.O., ..., **Kundu, R.**, et al. , 2021, *APOGEE discovery of a chemically atypical star disrupted from NGC 6723 and captured by the Milky Way bulge*, *A&A*, 647, A64 [\[ADS\]](#)
- Kundu, R.**, Navarrete, C., Fernández-Trincado, J.G., Minniti, D., Singh, H.P., Sbordone, L., Piatti, A.E. & Reylé, C., 2021, *The search for extratidal star candidates around Galactic globular clusters NGC 2808, NGC 6266, and NGC 6397 with Gaia DR2 astrometry*, *A&A*, 645, A116 [\[ADS\]](#)
- Cooke, D.A., Bauche, J., Casella, M., Chappell, J., Alemany-Fernández, R., Gorgisyan, I., Gschwendtner, E., Jolly, S., Kain, V., Keeble, F., ..., **La Penna, P.**, et al. , 2021, *Measurement and application of electron stripping of ultrarelativistic  $20^{\circ}\text{Pb}81+$* , *NIMPA*, 988, 164902 [\[ADS\]](#)
- Lacour, S.**, Wang, J.J., Rodet, L., Nowak, M., Shangquan, J., Beust, H., Lagrange, A.M., Abuter, R., Amorim, A., Asensio-Torres, R., et al. , 2021, *The mass of  $\beta$  Pictoris c from  $\beta$  Pictoris b orbital motion*, *A&A*, 654, L2 [\[ADS\]](#)
- Wang, J.J., Vigan, A., **Lacour, S.**, Nowak, M., Stolker, T., De Rosa, R.J., Ginzburg, S., Gao, P., Abuter, R., Amorim, A., et al. , 2021, *Constraining the Nature of the PDS 70 Protoplanets with VLTI/GRAVITY*, *AJ*, 161, 148 [\[ADS\]](#)
- Hernandez, M.S., Schreiber, M.R., Parsons, S.G., Gänsicke, B.T., **Lagos, F.**, Raddi, R., Toloza, O., Tovmassian, G., Zorotovic, M., Irawati, P., et al. , 2021, *The White Dwarf Binary Pathways Survey - IV. Three close white dwarf binaries with G-type secondary stars*, *MNRAS*, 501, 1677 [\[ADS\]](#)
- Lagos, F.**, Schreiber, M.R., Zorotovic, M., Gänsicke, B.T., Ronco, M.P. & Hamers, A.S., 2021, *WD 1856 b: a close giant planet around a white dwarf that could have survived a common envelope phase*, *MNRAS*, 501, 676 [\[ADS\]](#)
- Lamperti, I.**, Harrison, C.M., Mainieri, V., Kakkad, D., Perna, M., Circosta, C., Scholtz, J., Carniani, S., Cicone, C., Alexander, D.M., et al. , 2021, *SUPER. V. ALMA continuum observations of  $z \sim 2$  AGN and the elusive evidence of outflows influencing star formation*, *A&A*, 654, A90 [\[ADS\]](#)
- Greenwell, C., Gandhi, P., Stern, D., Boorman, P., Toba, Y., **Lansbury, G.**, Mainieri, V. & Desira, C., 2021, *A candidate optically quiescent quasar lacking narrow emission lines*, *MNRAS*, 503, L80 [\[ADS\]](#)
- Jiang, J., Baloković, M., Brightman, M., Liu, H., Harrison, F.A. & **Lansbury, G.B.**, 2021, *A highly accreting low-mass black hole hidden in the dust: Suzaku and NuSTAR observations of the NLS1 Mrk 1239*, *MNRAS*, 505, 702 [\[ADS\]](#)
- Ricci, C., Privo, G.C., Pfeifle, R.W., Armus, L., Iwasawa, K., Torres-Albà, N., Satyapal, S., Bauer, F.E., Treister, E., Ho, L.C., ..., **Lansbury, G.**, et al. , 2021, *A hard X-ray view of luminous and ultra-luminous infrared galaxies in GOALS - I. AGN obscuration along the merger sequence*, *MNRAS*, 506, 5935 [\[ADS\]](#)
- Cortes, P.C., **Le Gouellec, V.J.M.**, Hull, C.L.H., Girart, J.M., Louvet, F., Fomalont, E.B., Kamenov, S., Moellenbrock, G.A., Nagai, H. & Nakanishi, K., 2021, *The Explosion in Orion-KL as Seen by Mosaicking the Magnetic Field with ALMA*, *ApJ*, 907, 94 [\[ADS\]](#)
- Doi, Y., Tomisaka, K., Hasegawa, T., Coudé, S., Arzoumanian, D., Bastien, P., Matsumura, M., Tahani, M., Sadavoy, S., Hull, C.L.H., ..., **Le Gouellec, V.J.M.**, et al. , 2021, *The JCMT BISTRO Survey: Evidence for Pinched Magnetic Fields in Quiescent Filaments of NGC 1333*, *ApJL*, 923, L9 [\[ADS\]](#)
- De Cia, A., Jenkins, E.B., Fox, A.J., **Ledoux, C.**, Rambulth-Hurt, T., Konstantopoulou, C., Petitjean, P. & Krogager, J.-K., 2021, *Large metallicity variations in the Galactic interstellar medium*, *Nature*, 597, 206 [\[ADS\]](#)
- Heintz, K.E., Björnsson, G., Neeleman, M., Christensen, L., Fynbo, J.P.U., Jakobsson, P., Krogager, J.K., Laskar, T., **Ledoux, C.**, Magdis, G., et al. , 2021, *GRB host galaxies with strong  $H_2$  absorption: CO-dark molecular gas at the peak of cosmic star formation*, *MNRAS*, 507, 1434 [\[ADS\]](#)
- Kosenko, D.N., Balashev, S.A., Noterdaeme, P., Krogager, J.K., Srianand, R. & **Ledoux, C.**, 2021, *HD molecules at high redshift: cosmic ray ionization rate in the diffuse interstellar medium*, *MNRAS*, 505, 3810 [\[ADS\]](#)

- Noterdaeme, P., Balashev, S., **Ledoux, C.**, Duchoquet, G., López, S., Telikova, K., Boissé, P., Krogager, J.K., De Cia, A. & Bergeron, J., 2021, *Sharpening quasar absorption lines with ESPRESSO. Temperature of warm gas at  $z \sim 2$ , constraints on the Mg isotopic ratio, and structure of cold gas at  $z \sim 0.5$* , A&A, 651, A78 [\[ADS\]](#)
- Solimano, M., González-López, J., Barrientos, L.F., Aravena, M., López, S., Tejos, N., Sharon, K., Dahle, H., Bayliss, M., **Ledoux, C.**, et al. , 2021, *Molecular gas budget and characterization of intermediate-mass star-forming galaxies at  $z \approx 2-3$* , A&A, 655, A42 [\[ADS\]](#)
- Tejos, N., López, S., **Ledoux, C.**, Fernández-Figueroa, A., Rivas, N., Sharon, K., Johnston, E.J., Florian, M.K., D'Ago, G., Katsianis, A., et al. , 2021, *Telltale signs of metal recycling in the circumgalactic medium of a  $z \approx 0.77$  galaxy*, MNRAS, 507, 663 [\[ADS\]](#)
- Leftley, J.H.**, Tristram, K.R.W., Hönig, S.F., Asmus, D., Kishimoto, M. & Gandhi, P., 2021, *Resolving the Hot Dust Disk of ESO323-G77*, ApJ, 912, 96 [\[ADS\]](#)
- Li, C.-J., Chu, Y.-H., Raymond, J.C., **Leibundgut, B.**, Seitzzahl, I.R. & Morlino, G., 2021, *Forbidden Line Emission from Type Ia Supernova Remnants Containing Balmer-dominated Shells*, ApJ, 923, 141 [\[ADS\]](#)
- Huda, I.N., Hidayat, T., Dermawan, B., Lambert, S., Liu, N., **Leon, S.**, Fujisawa, K., Yonekura, Y., Sugiyama, K., Hirota, T., et al. , 2021, *Measuring the impact of Indonesian antennas on global geodetic VLBI network*, ExA, 52, 141 [\[ADS\]](#)
- Bourrier, V., Lovis, C., Cretignier, M., Allart, R., Dumusque, X., Delisle, J.B., Deline, A., Sousa, S.G., Adibekyan, V., Alibert, Y., ..., **Lo Curto, G.**, et al. , 2021, *The Rossiter-McLaughlin effect revolutions: an ultra-short period planet and a warm mini-Neptune on perpendicular orbits*, A&A, 654, A152 [\[ADS\]](#)
- Casasayas-Barris, N., Palte, E., Stangret, M., Bourrier, V., Taberner, H.M., Yan, F., Borsari, F., Allart, R., Zapatero Osorio, M.R., Lovis, C., ..., **Lo Curto, G.**, et al. , 2021, *The atmosphere of HD 209458b seen with ESPRESSO. No detectable planetary absorptions at high resolution*, A&A, 647, A26 [\[ADS\]](#)
- Unger, N., Ségransan, D., Queloz, D., Udry, S., Lovis, C., Mordasini, C., Ahrer, E., Benz, W., Bouchy, F., Delisle, J.B., ..., **Lo Curto, G.**, et al. , 2021, *The HARPS search for southern extra-solar planets. XLVI. 12 super-Earths around the solar type stars HD 39194, HD 93385, HD 96700, HD 154088, and HD 189567*, A&A, 654, A104 [\[ADS\]](#)
- Lançon, A., Gonneau, A., Verro, K., Prugniel, P., Arentsen, A., Trager, S.C., Peletier, R., Chen, Y.P., Coelho, P., Falcón-Barroso, J., ..., **Lyubenova, M.**, et al. , 2021, *A comparison between X-shooter spectra and PHOENIX models across the HR-diagram*, A&A, 649, A97 [\[ADS\]](#)
- Cicone, C., **Mainieri, V.**, Circosta, C., Kakkad, D., Vietri, G., Perna, M., Bischetti, M., Carniani, S., Cresci, G., Harrison, C., et al. , 2021, *SUPER. VI. A giant molecular halo around a  $z \sim 2$  quasar*, A&A, 654, L8 [\[ADS\]](#)
- Circosta, C., **Mainieri, V.**, Lamperti, I., Padovani, P., Bischetti, M., Harrison, C.M., Kakkad, D., Zanella, A., Vietri, G., Lanzuisi, G., et al. , 2021, *SUPER. IV. CO( $J = 3-2$ ) properties of active galactic nucleus hosts at cosmic noon revealed by ALMA*, A&A, 646, A96 [\[ADS\]](#)
- Kashino, D., Lilly, S.J., Silverman, J.D., Renzini, A., Daddi, E., Bardelli, S., Cucciati, O., Kartaltepe, J.S., **Mainieri, V.**, Pelló, R., et al. , 2021, *The 2175 Å Dust Feature in Star-forming Galaxies at  $1.3 \leq z \leq 1.8$ : The Dependence on Stellar Mass and Specific Star Formation Rate*, ApJ, 909, 213 [\[ADS\]](#)
- Tozzi, G., Cresci, G., Marasco, A., Nardini, E., Marconi, A., Mannucci, F., Chartas, G., Rizzo, F., Amiri, A., Brusa, M., ..., **Mainieri, V.**, et al. , 2021, *Connecting X-ray nuclear winds with galaxy-scale ionised outflows in two  $z \sim 1.5$  lensed quasars*, A&A, 648, A99 [\[ADS\]](#)
- Alcalá, J.M., Gangi, M., Biazzo, K., Antonucci, S., Frasca, A., Giannini, T., Munari, U., Nisini, B., Harutyunyan, A. & **Manara, C.F.**, 2021, *GIARPS High-resolution Observations of T Tauri stars (GHOS T). III. A pilot study of stellar and accretion properties*, A&A, 652, A72 [\[ADS\]](#)
- Braun, T.A.M., Yen, H.-W., Koch, P.M., **Manara, C.F.**, Miotello, A. & Testi, L., 2021, *Dynamical Stellar Masses of Pre-main-sequence Stars in Lupus and Taurus Obtained with ALMA Surveys in Comparison with Stellar Evolutionary Models*, ApJ, 908, 46 [\[ADS\]](#)
- Campbell-White, J., Sicilia-Aguilar, A., **Manara, C.F.**, Matsumura, S., Fang, M., Frasca, A. & Roccatagliata, V., 2021, *The STAR-MELT PYTHON package for emission-line analysis of YSOs*, MNRAS, 507, 3331 [\[ADS\]](#)
- Covey, K.R., Larson, K.A., Herczeg, G.J. & **Manara, C.F.**, 2021, *A Differential Measurement of Circumstellar Extinction for AA Tau's 2011 Dimming Event*, AJ, 161, 61 [\[ADS\]](#)
- Erkal, J., Nisini, B., Coffey, D., Bacciotti, F., Hartigan, P., Antonucci, S., Giannini, T., Eisloffel, J. & **Manara, C.F.**, 2021, *Probing Jets from Young Embedded Sources: Clues from HST Near-IR [Fe II] Images*, ApJ, 919, 23 [\[ADS\]](#)
- Flaischlen, S., Preibisch, T., **Manara, C.F.** & Ercolano, B., 2021, *Testing the models of X-ray driven photoevaporation with accreting stars in the Orion Nebula Cluster*, A&A, 648, A121 [\[ADS\]](#)
- Kurtovic, N.T., Pinilla, P., Long, F., Benisty, M., **Manara, C.F.**, Natta, A., Pascucci, I., Ricci, L., Scholz, A. & Testi, L., 2021, *Size and structures of disks around very low mass stars in the Taurus star-forming region*, A&A, 645, A139 [\[ADS\]](#)
- Lovell, J.B., Wyatt, M.C., Ansdell, M., Kama, M., Kennedy, G.M., **Manara, C.F.**, Marino, S., Matrà, L., Rosotti, G., Tazzari, M., et al. , 2021, *ALMA survey of Lupus class III stars: Early planetesimal belt formation and rapid disc dispersal*, MNRAS, 500, 4878 [\[ADS\]](#)
- Lovell, J.B., Kennedy, G.M., Marino, S., Wyatt, M.C., Ansdell, M., Kama, M., **Manara, C.F.**, Matrà, L., Rosotti, G., Tazzari, M., et al. , 2021, *Rapid CO gas dispersal from NO Lup's class III circumstellar disc*, MNRAS, 502, L66 [\[ADS\]](#)
- Manara, C.F.**, Frasca, A., Venuti, L., Siwak, M., Herczeg, G.J., Calvet, N., Hernandez, J., Tychoniec, Ł., Gangi, M., Alcalá, J.M., et al. , 2021, *PENELLOPE: The ESO data legacy program to complement the Hubble UV Legacy Library of Young Stars (ULLYSES). I. Survey presentation and accretion properties of Orion OB1 and  $\sigma$ -Orionis*, A&A, 650, A196 [\[ADS\]](#)
- Pinilla, P., Kurtovic, N.T., Benisty, M., **Manara, C.F.**, Natta, A., Sanchis, E., Tazzari, M., Stammer, S.M., Ricci, L. & Testi, L., 2021, *A bright inner disk and structures in the transition disk around the very low-mass star CIDA 1*, A&A, 649, A122 [\[ADS\]](#)
- Ripepi, V., Catanzaro, G., Molnár, L., Plachy, E., Marconi, M., Clementini, G., Molinaro, R., De Somma, G., Leccia, S., **Mancino, S.**, et al. , 2021, *HD 344787: a true Polaris analogue?*, A&A, 647, A111 [\[ADS\]](#)
- Evans, F.A., **Marchetti, T.**, Rossi, E.M., Baggen, J.F.W. & Bloor, S., 2021, *Comparing hypervelocity star populations from the Large Magellanic Cloud and the Milky Way*, MNRAS, 507, 4997 [\[ADS\]](#)
- Li, Y.-B., Luo, A.L., Lu, Y.-J., Zhang, X.-S., Li, J., Wang, R., Zuo, F., Xiang, M., Ting, Y.-S., **Marchetti, T.**, et al. , 2021, *591 High-velocity Stars in the Galactic Halo Selected from LAMOST DR7 and Gaia DR2*, ApJS, 252, 3 [\[ADS\]](#)
- Marchetti, T.**, 2021, *Gaia EDR3 in 6D: searching for unbound stars in the galaxy*, MNRAS, 503, 1374 [\[ADS\]](#)
- Audibert, A., Combes, F., García-Burillo, S., Hunt, L., Eckart, A., Aalto, S., Casasola, V., Boone, F., Krips, M., Viti, S., ... & **Martin, S.**, 2021, *Black hole feeding and star formation in NGC 1808*, A&A, 656, A60 [\[ADS\]](#)
- Barrientos, A., Holdship, J., Solar, M., **Martin, S.**, Rivilla, V.M., Viti, S., Mangum, J., Harada, N., Sakamoto, K., Muller, S., et al. , 2021, *Towards the prediction of*

- molecular parameters from astronomical emission lines using Neural Networks*, ExA, 52, 157 [\[ADS\]](#)
- Cortés, P.C., Sanhueza, P., Houde, M., **Martín, S.**, Hull, C.L.H., Girart, J.M., Zhang, Q., Fernandez-Lopez, M., Zapata, L.A., Stephens, I.W., et al. , 2021, *Magnetic Fields in Massive Star-forming Regions (MagMaR). II. Tomography through Dust and Molecular Line Polarization in NGC 6334I(N)*, ApJ, 923, 204 [\[ADS\]](#)
- Falstad, N., Aalto, S., König, S., Onishi, K., Muller, S., Gorski, M., Sato, M., Stanley, F., Combes, F., González-Alfonso, E., ..., **Martín, S.**, et al. , 2021, *CON-quest. Searching for the most obscured galaxy nuclei*, A&A, 649, A105 [\[ADS\]](#)
- Harada, N., **Martín, S.**, Mangum, J.G., Sakamoto, K., Muller, S., Tanaka, K., Nakanishi, K., Herrero-Illana, R., Yoshimura, Y., Mühle, S., et al. , 2021, *Starburst Energy Feedback Seen through HCO<sup>+</sup>/HOC<sup>+</sup> Emission in NGC 253 from ALCHEMI*, ApJ, 923, 24 [\[ADS\]](#)
- Holdship, J., Viti, S., **Martín, S.**, Harada, N., Mangum, J., Sakamoto, K., Muller, S., Tanaka, K., Yoshimura, Y., Nakanishi, K., et al. , 2021, *The distribution and origin of C<sub>2</sub>H in NGC 253 from ALCHEMI*, A&A, 654, A55 [\[ADS\]](#)
- Martín, S.**, Mangum, J.G., Harada, N., Costagliola, F., Sakamoto, K., Muller, S., Aladro, R., Tanaka, K., Yoshimura, Y., Nakanishi, K., et al. , 2021, *ALCHEMI, an ALMA Comprehensive High-resolution Extragalactic Molecular Inventory. Survey presentation and first results from the ACA array*, A&A, 656, A46 [\[ADS\]](#)
- Misra, K., Resmi, L., Kann, D.A., Marongiu, M., Moin, A., Klose, S., Bernardi, G., de Ugarte Postigo, A., Jaiswal, V.K., Schulze, S., ..., **Martín, S.**, et al. , 2021, *Low frequency view of GRB 190114C reveals time varying shock micro-physics*, MNRAS, 504, 5685 [\[ADS\]](#)
- Nguyen, D.D., Izumi, T., Thater, S., Imanishi, M., Kawamuro, T., Baba, S., Nakano, S., Turner, J.L., Kohno, K., Matsushita, S., **Martín, S.**, et al. , 2021, *Black hole mass measurement using ALMA observations of [CII] and CO emissions in the Seyfert 1 galaxy NGC 7469*, MNRAS, 504, 4123 [\[ADS\]](#)
- Rico-Villas, F., Martín-Pintado, J., González-Alfonso, E., Rivilla, V.M., **Martín, S.**, García-Burillo, S., Jiménez-Serra, I. & Sánchez-García, M., 2021, *Vibrationally excited HC<sub>3</sub>N emission in NGC 1068: tracing the recent star formation in the starburst ring*, MNRAS, 502, 3021 [\[ADS\]](#)
- Rivilla, V.M., Jiménez-Serra, I., García de la Concepción, J., Martín-Pintado, J., Colzi, L., Rodríguez-Almeida, L.F., Tercero, B., Rico-Villas, F., Zeng, S., **Martín, S.**, et al. , 2021, *Detection of the cyanomethyl radical (HNCN): a new interstellar species with the NCN backbone*, MNRAS, 506, L79 [\[ADS\]](#)
- Rivilla, V.M., Jiménez-Serra, I., Martín-Pintado, J., Briones, C., Rodríguez-Almeida, L.F., Rico-Villas, F., Tercero, B., Zeng, S., Colzi, L., de Vicente, P., **Martín, S.**, et al. , 2021, *Discovery in space of ethanolamine, the simplest phospholipid head group*, PNAS, 118, 2101314118 [\[ADS\]](#)
- Rodríguez-Almeida, L.F., Rivilla, V.M., Jiménez-Serra, I., Melosso, M., Colzi, L., Zeng, S., Tercero, B., de Vicente, P., **Martín, S.**, Requena-Torres, M.A., et al. , 2021, *First detection of C<sub>2</sub>H<sub>5</sub>NCO in the ISM and search of other isocyanates towards the G+0.693-0.027 molecular cloud*, A&A, 654, L1 [\[ADS\]](#)
- Rodríguez-Almeida, L.F., Jiménez-Serra, I., Rivilla, V.M., Martín-Pintado, J., Zeng, S., Tercero, B., de Vicente, P., Colzi, L., Rico-Villas, F. & **Martín, S.**, 2021, *Thiols in the Interstellar Medium: First Detection of HC(O)SH and Confirmation of C<sub>2</sub>H<sub>5</sub>SH*, ApJL, 912, L11 [\[ADS\]](#)
- Sakamoto, K., González-Alfonso, E., **Martín, S.**, Wilner, D.J., Aalto, S., Evans, A.S. & Harada, N., 2021, *Deeply Buried Nuclei in the Infrared-luminous Galaxies NGC 4418 and Arp 220. I. ALMA Observations at  $\lambda = 1.4-0.4$  mm and Continuum Analysis*, ApJ, 923, 206 [\[ADS\]](#)
- Sakamoto, K., **Martín, S.**, Wilner, D.J., Aalto, S., Evans, A.S. & Harada, N., 2021, *Deeply Buried Nuclei in the Infrared-luminous Galaxies NGC 4418 and Arp 220. II. Line Forests at  $\lambda = 1.4-0.4$  mm and Circumnuclear Gas Observed with ALMA*, ApJ, 923, 240 [\[ADS\]](#)
- Tang, X.D., Henkel, C., Menten, K.M., Gong, Y., Chen, C.H.R., Li, D.L., Lee, M.Y., Mangum, J.G., Ao, Y.P., Mühle, S., ..., **Martín, S.**, et al. , 2021, *Kinetic temperature of massive star-forming molecular clumps measured with formaldehyde. IV. The ALMA view of N113 and N159W in the LMC*, A&A, 655, A12 [\[ADS\]](#)
- Zeng, S., Jiménez-Serra, I., Rivilla, V.M., Martín-Pintado, J., Rodríguez-Almeida, L.F., Tercero, B., de Vicente, P., Rico-Villas, F., Colzi, L. & **Martín, S.**, 2021, *Probing the Chemical Complexity of Amines in the ISM: Detection of Vinylamine (C<sub>2</sub>H<sub>3</sub>NH<sub>2</sub>) and Tentative Detection of Ethylamine (C<sub>2</sub>H<sub>5</sub>NH<sub>2</sub>)*, ApJL, 920, L27 [\[ADS\]](#)
- Beltrán, M.T., Rivilla, V.M., Cesaroni, R., **Maud, L.T.**, Galli, D., Moscadelli, L., Lorenzani, A., Ahmadi, A., Beuther, H., Csengeri, T., et al. , 2021, *Fragmentation in the massive G31.41+0.31 protocluster*, A&A, 648, A100 [\[ADS\]](#)
- Fedele, D., Toci, C., **Maud, L.** & Lodato, G., 2021, *ALMA 870  $\mu$ m continuum observations of HD 100546. Evidence of a giant planet on a wide orbit*, A&A, 651, A90 [\[ADS\]](#)
- Gieser, C., Beuther, H., Semenov, D., Ahmadi, A., Suri, S., Möller, T., Beltrán, M.T., Klaassen, P., Zhang, Q., Urquhart, J.S., ..., **Maud, L.**, et al. , 2021, *Physical and chemical structure of high-mass star-forming regions. Unraveling chemical complexity with CORE: the NOEMA large program*, A&A, 648, A66 [\[ADS\]](#)
- Moscadelli, L., Beuther, H., Ahmadi, A., Gieser, C., Massi, F., Cesaroni, R., Sánchez-Monge, Á., Bacciotti, F., Beltrán, M.T., Csengeri, T., ..., **Maud, L.T.**, et al. , 2021, *Multi-scale view of star formation in IRAS 21078+5211: from clump fragmentation to disk wind*, A&A, 647, A114 [\[ADS\]](#)
- Okoda, Y., Oya, Y., Francis, L., Johnstone, D., Inutsuka, S.-i., Ceccarelli, C., Codella, C., Chandler, C., Sakai, N., Aikawa, Y., ..., **Maud, L.T.**, et al. , 2021, *FAUST. II. Discovery of a Secondary Outflow in IRAS 15398-3359: Variability in Outflow Direction during the Earliest Stage of Star Formation?*, ApJ, 910, 11 [\[ADS\]](#)
- Suri, S., Beuther, H., Gieser, C., Ahmadi, A., Sánchez-Monge, Á., Winters, J.M., Linz, H., Henning, T., Beltrán, M.T., Bosco, F., ..., **Maud, L.**, et al. , 2021, *Disk fragmentation in high-mass star formation. High-resolution observations towards AFGL 2591-VLA 3*, A&A, 655, A84 [\[ADS\]](#)
- Bañados, E., **Mazzucchelli, C.**, Momjian, E., Eilers, A.-C., Wang, F., Schindler, J.-T., Connor, T., Andika, I.T., Barth, A.J., Carilli, C., et al. , 2021, *The Discovery of a Highly Accreting, Radio-loud Quasar at  $z = 6.82$* , ApJ, 909, 80 [\[ADS\]](#)
- Connor, T., Bañados, E., Stern, D., Carilli, C., Fabian, A., Momjian, E., Rojas-Ruiz, S., Decarli, R., Farina, E.P. & **Mazzucchelli, C.**, 2021, *Enhanced X-Ray Emission from the Most Radio-powerful Quasar in the Universe's First Billion Years*, ApJ, 911, 120 [\[ADS\]](#)
- Connor, T., Stern, D., Bañados, E. & **Mazzucchelli, C.**, 2021, *X-Ray Evidence Against the Hypothesis that the Hyperluminous  $z = 6.3$  Quasar J0100+2802 is Lensed*, ApJL, 922, L24 [\[ADS\]](#)
- Momjian, E., Bañados, E., Carilli, C.L., Walter, F. & **Mazzucchelli, C.**, 2021, *Resolving the Radio Emission from the Quasar P172+18 at  $z = 6.82$* , AJ, 161, 207 [\[ADS\]](#)
- Pensabene, A., Decarli, R., Bañados, E., Venemans, B., Walter, F., Bertoldi, F., Fan, X., Farina, E.P., Li, J., **Mazzucchelli, C.**, et al. , 2021, *ALMA multiline survey of the ISM in two quasar host-companion galaxy pairs at  $z > 6$* , A&A, 652, A66 [\[ADS\]](#)
- Rojas-Ruiz, S., Bañados, E., Neeleman, M., Connor, T., Eilers, A.-C., Venemans, B.P., Khusanova, Y., Carilli, C., **Mazzucchelli, C.**, Decarli, R., et al. , 2021, *The*

- Impact of Powerful Jets on the Far-infrared Emission of an Extreme Radio Quasar at  $z \approx 6$* , *ApJ*, 920, 150 [\[ADS\]](#)
- Vito, F., Brandt, W.N., Ricci, F., Congiu, E., Connor, T., Bañados, E., Bauer, F.E., Gilli, R., Luo, B., **Mazzucchelli, C.**, et al. , 2021, *Chandra and Magellan/FIRE follow-up observations of PSO167-13: An X-ray weak QSO at  $z = 6.515$* , *A&A*, 649, A133 [\[ADS\]](#)
- Wang, F., Fan, X., Yang, J., **Mazzucchelli, C.**, Wu, X.-B., Li, J.-T., Bañados, E., Farina, E.P., Nanni, R., Ai, Y., et al. , 2021, *Revealing the Accretion Physics of Supermassive Black Holes at Redshift  $z \sim 7$  with Chandra and Infrared Observations*, *ApJ*, 908, 53 [\[ADS\]](#)
- Wenzl, L., Schindler, J.-T., Fan, X., Andika, I.T., Bañados, E., Decarli, R., Jahnke, K., **Mazzucchelli, C.**, Onoue, M., Venemans, B.P., et al. , 2021, *Random Forests as a Viable Method to Select and Discover High-redshift Quasars*, *AJ*, 162, 72 [\[ADS\]](#)
- Mehner, A.**, Janssens, S., Agliozzo, C., de Wit, W.J., Boffin, H.M.J., Baade, D., Bodensteiner, J., Groh, J.H., Mahy, L. & Vogt, F.P.A., 2021, *LBV phenomenon and binarity: The environment of HR Car*, *A&A*, 655, A33 [\[ADS\]](#)
- Melo, A., Motta, V., Godoy, N., **Mejia-Restrepo, J.**, Assef, R.J., Mediavilla, E., Falco, E., Ávila-Vera, F. & Jerez, R., 2021, *First black hole mass estimation for the quadruple lensed system WGD2038-4008*, *A&A*, 656, A108 [\[ADS\]](#)
- González-Morán, A.L., Chávez, R., Terlevich, E., Terlevich, R., Fernández-Arenas, D., Bresolin, F., Plionis, M., **Melnick, J.**, Basilakos, S. & Telles, E., 2021, *Independent cosmological constraints from high- $z$  H II galaxies: new results from VLT-KMOS data*, *MNRAS*, 505, 1441 [\[ADS\]](#)
- Lopes, A.R., Telles, E. & **Melnick, J.**, 2021, *The effects of star formation history in the SFR- $M^*$  relation of H II galaxies*, *MNRAS*, 500, 3240 [\[ADS\]](#)
- Melnick, J.**, Tenorio-Tagle, G. & Telles, E., 2021, *Supersonic turbulence in giant HII regions: clues from 30 Doradus*, *A&A*, 649, A175 [\[ADS\]](#)
- Baratella, M., D'Orazi, V., Sheminova, V., Spina, L., Carraro, G., Gratton, R., Magrini, L., Randich, S., Lugaro, M., Pignatari, M., ..., **Melo, C.**, et al. , 2021, *The Gaia-ESO Survey: a new approach to chemically characterising young open clusters. II. Abundances of the neutron-capture elements Cu, Sr, Y, Zr, Ba, La, and Ce*, *A&A*, 653, A67 [\[ADS\]](#)
- Messias, H.G.**, Hatziminaoglou, E., Hibon, P., Mroczkowski, T., Matute, I., Lacy, M., Mason, B., Martín, S., Afonso, J.M., Fomalont, E., et al. , 2021, *An ACA 1 mm survey of HzRGs in the ELAIS-S1: survey description and first results*, *MNRAS*, 508, 5259 [\[ADS\]](#)
- Mahani, H., Zonoozi, A.H., Haghi, H., Jeřábková, T., Kroupa, P. & **Mieske, S.**, 2021, *Do ultracompact dwarf galaxies form monolithically or as merged star cluster complexes?*, *MNRAS*, 502, 5185 [\[ADS\]](#)
- Lee, C.-C., Webb, J.K., Carswell, R.F. & **Milaković, D.**, 2021, *Artificial intelligence and quasar absorption system modelling: application to fundamental constants at high redshift*, *MNRAS*, 504, 1787 [\[ADS\]](#)
- Milaković, D.**, Lee, C.-C., Carswell, R.F., Webb, J.K., Molaro, P. & Pasquini, L., 2021, *A new era of fine structure constant measurements at high redshift*, *MNRAS*, 500, 1 [\[ADS\]](#)
- Webb, J.K., Lee, C.-C., Carswell, R.F. & **Milaković, D.**, 2021, *Getting the model right: an information criterion for spectroscopy*, *MNRAS*, 501, 2268 [\[ADS\]](#)
- Miles-Páez, P.A.**, 2021, *Detection of photometric variability in the very low-mass binary VHS J1256-1257AB using TESS and Spitzer*, *A&A*, 651, L7 [\[ADS\]](#)
- Tannock, M.E., Metchev, S., Heinze, A., **Miles-Páez, P.A.**, Gagné, J., Burgasser, A., Marley, M.S., Apai, D., Suárez, G. & Plavchan, P., 2021, *Weather on Other Worlds. V. The Three Most Rapidly Rotating Ultra-cool Dwarfs*, *AJ*, 161, 224 [\[ADS\]](#)
- Cronin-Coltsmann, P.F., Kennedy, G.M., Kalas, P., **Milli, J.**, Clarke, C.J., Duchêne, G., Greaves, J., Lawler, S.M., Lestrade, J.-F., Matthews, B.C., et al. , 2021, *ALMA imaging of the M-dwarf Fomalhaut C's debris disc*, *MNRAS*, 504, 4497 [\[ADS\]](#)
- Kamp, I., Honda, M., Nomura, H., Audard, M., Fedele, D., Waters, L.B.F.M., Aikawa, Y., Banzatti, A., Bowey, J.E., Bradford, M., ..., **Miotello, A.**, et al. , 2021, *The formation of planetary systems with SPICA*, *PASA*, 38, e055 [\[ADS\]](#)
- Miotello, A.**, Rosotti, G., Ansdell, M., Facchini, S., Manara, C.F., Williams, J.P. & Bruderer, S., 2021, *Compact disks. An explanation to faint CO emission in Lupus disks*, *A&A*, 651, A48 [\[ADS\]](#)
- Urquhart, J.S., Figura, C., Cross, J.R., Wells, M.R.A., Moore, T.J.T., Eden, D.J., Ragan, S.E., Pettitt, A.R., Duarte-Cabral, A., Colombo, D., ..., **Montenegro-Montes, F.M.**, et al. , 2021, *SEDIGISM-ATLASGAL: dense gas fraction and star formation efficiency across the Galactic disc*, *MNRAS*, 500, 3050 [\[ADS\]](#)
- Lee, Y.-H., Johnstone, D., Lee, J.-E., Herczeg, G., Mairs, S., Contreras-Peña, C., Hatchell, J., Naylor, T., Bell, G.S., Bourke, T.L., ..., **Morata, O.**, et al. , 2021, *The JCMT Transient Survey: Four-year Summary of Monitoring the Submillimeter Variability of Protostars*, *ApJ*, 920, 119 [\[ADS\]](#)
- Devogèle, M., Ferrais, M., Jehin, E., Moskovitz, N., Skiff, B.A., Levine, S.E., Gustafsson, A., Farnocchia, D., Micheli, M., Snodgrass, C., ..., **Moulane, Y.**, et al. , 2021, *(6478) Gault: physical characterization of an active main-belt asteroid*, *MNRAS*, 505, 245 [\[ADS\]](#)
- Amodeo, S., Battaglia, N., Schaaf, E., Ferraro, S., Moser, E., Aiola, S., Austermann, J.E., Beall, J.A., Bean, R., Becker, D.T., ..., **Mroczkowski, T.**, et al. , 2021, *Atacama Cosmology Telescope: Modeling the gas thermodynamics in BOSS CMASS galaxies from kinematic and thermal Sunyaev-Zel'dovich measurements*, *PhRvD*, 103, 063514 [\[ADS\]](#)
- Andreon, S., Romero, C., Castagna, F., Ragagnin, A., Devlin, M., Dicker, S., Mason, B., **Mroczkowski, T.**, Sarazin, C. & Sievers, J., 2021, *Thermodynamic evolution of the  $z = 1.75$  galaxy cluster IDCS J1426.5+3508*, *MNRAS*, 505, 5896 [\[ADS\]](#)
- Basu, K., Remazeilles, M., Melin, J.-B., Alonso, D., Bartlett, J.G., Battaglia, N., Chluba, J., Churazov, E., Delabrouille, J., Erler, J., ..., **Mroczkowski, T.**, et al. , 2021, *A space mission to map the entire observable universe using the CMB as a backlight*, *ExA*, 51, 1555 [\[ADS\]](#)
- Delabrouille, J., Abitbol, M.H., Aghanim, N., Ali-Haïmoud, Y., Alonso, D., Alvarez, M., Banday, A.J., Bartlett, J.G., Baselmans, J., Basu, K., ..., **Mroczkowski, T.**, et al. , 2021, *Microwave spectro-polarimetry of matter and radiation across space and time*, *ExA*, 51, 1471 [\[ADS\]](#)
- Di Mascolo, L., **Mroczkowski, T.**, Perrott, Y., Rudnick, L., James Jee, M., HyeonHan, K., Churazov, E., Collier, J.D., Diego, J.M., Hopkins, A.M., et al. , 2021, *Multiwavelength view of the SPT-CL J2106-5844. The radio galaxies and the thermal and relativistic plasmas in a massive galaxy cluster merger at  $z \approx 1.13$* , *A&A*, 650, A153 [\[ADS\]](#)
- Dicker, S.R., Battistelli, E.S., Bhandarkar, T., Devlin, M.J., Duff, S.M., Hilton, G., Hilton, M., Hincks, A.D., Hubmayr, J., Huppenberger, K., ..., **Mroczkowski, T.**, et al. , 2021, *Observations of compact sources in galaxy clusters using MUSTANG2*, *MNRAS*, 508, 2600 [\[ADS\]](#)
- Hilton, M., Sifón, C., Naess, S., Madhavacheril, M., Oguri, M., Rozo, E., Rykoff, E., Abbott, T.M.C., Adhikari, S., Aguena, M., ..., **Mroczkowski, T.**, et al. , 2021, *The Atacama Cosmology Telescope: A Catalog of >4000 Sunyaev-Zel'dovich Galaxy Clusters*, *ApJS*, 253, 3 [\[ADS\]](#)
- Knowles, K., Pillay, D.S., Amodeo, S., Baker, A.J., Basu, K., Crichton, D., de Gasperin, F., Devlin, M., Ferrari, C., Hilton, M., ..., **Mroczkowski, T.**, et al. , 2021, *MERGHERS pilot: MeerKAT discovery of diffuse*

- emission in nine massive Sunyaev-Zel'dovich-selected galaxy clusters from ACT, MNRAS, 504, 1749 [\[ADS\]](#)
- Okabe, N., Dicker, S., Eckert, D., **Mroczkowski, T.**, Gastaldello, F., Lin, Y.-T., Devlin, M., Romero, C.E., Birkinshaw, M., Sarazin, C., et al. , 2021, *Active gas features in three HSC-SSP CAMIRA clusters revealed by high angular resolution analysis of MUSTANG-2 SZE and XXL X-ray observations*, MNRAS, 501, 1701 [\[ADS\]](#)
- Orlowski-Scherer, J., Di Mascolo, L., Bhandarkar, T., Manduca, A., **Mroczkowski, T.**, Amodeo, S., Battaglia, N., Brodwin, M., Choi, S.K., Devlin, M., et al. , 2021, *Atacama Cosmology Telescope measurements of a large sample of candidates from the Massive and Distant Clusters of WISE Survey. Sunyaev-Zeldovich effect confirmation of MaDCoWS candidates using ACT*, A&A, 653, A135 [\[ADS\]](#)
- Reiprich, T.H., Verónica, A., Pacaud, F., Ramos-Ceja, M.E., Ota, N., Sanders, J., Kara, M., Erben, T., Klein, M., Erler, J., ..., **Mroczkowski, T.**, et al. , 2021, *The Abell 3391/95 galaxy cluster system. A 15 Mpc intergalactic medium emission filament, a warm gas bridge, infalling matter clumps, and (re-) accelerated plasma discovered by combining SRG/eROSITA data with ASKAP/EMU and DECAM data*, A&A, 647, A2 [\[ADS\]](#)
- Schaan, E., Ferraro, S., Amodeo, S., Battaglia, N., Aiola, S., Austermann, J.E., Beall, J.A., Bean, R., Becker, D.T., Bond, R.J., ..., **Mroczkowski, T.**, et al. , 2021, *Atacama Cosmology Telescope: Combined kinematic and thermal Sunyaev-Zel'dovich measurements from BOSS CMASS and LOWZ halos*, PhRvD, 103, 063513 [\[ADS\]](#)
- van der Wel, A., Bezanson, R., D'Eugenio, F., Straatman, C., Franx, M., van Houdt, J., Maseda, M.V., Gallazzi, A., Wu, P.-F., Pacifici, C., ..., **Munoz-Mateos, J.C.**, et al. , 2021, *The Large Early Galaxy Astrophysics Census (LEGA-C) Data Release 3: 3000 High-quality Spectra of  $K_s$ -selected Galaxies at  $z > 0.6$* , ApJS, 256, 44 [\[ADS\]](#)
- Nagao, T.**, Patat, F., Taubenberger, S., Baade, D., Faran, T., Cikota, A., Sand, D.J., Bulla, M., Kunarayakti, H., Maund, J.R., et al. , 2021, *Evidence for multiple origins of fast declining Type II supernovae from spectropolarimetry of SN 2013ej and SN 2017ahn*, MNRAS, 505, 3664 [\[ADS\]](#)
- Nakaoka, T., Maeda, K., Yamanaka, M., Tanaka, M., Kawabata, M., Moriya, T.J., Kawabata, K.S., Tominaga, N., Takagi, K., Imazato, F., ..., **Nagao, T.**, et al. , 2021, *Calcium-rich Transient SN 2019ehk in a Star-forming Environment: Yet Another Candidate for a Precursor of a Double Neutron-star Binary*, ApJ, 912, 30 [\[ADS\]](#)
- Alonso-García, J., Smith, L.C., Catelan, M., Minniti, D., **Navarrete, C.**, Borissova, J., Carballo-Bello, J.A., Contreras Ramos, R., Fernández-Trincado, J.G., Ferreira Lopes, C.E., et al. , 2021, *Variable stars in the VVV globular clusters. II. NGC 6441, NGC 6569, NGC 6626 (M 28), NGC 6656 (M 22), 2MASS-GC 02, and Terzan 10*, A&A, 651, A47 [\[ADS\]](#)
- Piatti, A.E., Mestre, M.F., Carballo-Bello, J.A., Carpintero, D.D., **Navarrete, C.**, Mora, M.D. & Cenozo, C., 2021, *Signatures of tidal disruption in the Milky Way globular cluster NGC 6981 (M72)*, A&A, 646, A176 [\[ADS\]](#)
- Raghuram, S., Bhardwaj, A., Hutsemékers, D., **Opitom, C.**, Manfroid, J. & Jehin, E., 2021, *A physico-chemical model to study the ion density distribution in the inner coma of comet C/2016 R2 (Pan-STARRS)*, MNRAS, 501, 4035 [\[ADS\]](#)
- Tregloan-Reed, J., **Otarola, A.**, Unda-Sanzana, E., Haeussler, B., Gaete, F., Colque, J.P., González-Fernández, C., Anais, J., Molina, V., González, R., et al. , 2021, *Optical-to-NIR magnitude measurements of the Starlink LEO Darksat satellite and effectiveness of the darkening treatment*, A&A, 647, A54 [\[ADS\]](#)
- Giommi, P. & **Padovani, P.**, 2021, *Astrophysical Neutrinos and Blazars*, Univ, 7, 492 [\[ADS\]](#)
- Paiano, S., Falomo, R., Treves, A., **Padovani, P.**, Giommi, P. & Scarpa, R., 2021, *The spectra of IceCube neutrino candidate sources - I. Optical spectroscopy of blazars*, MNRAS, 504, 3338 [\[ADS\]](#)
- Fratta, M., Scaringi, S., Drew, J.E., Monguió, M., Knigge, C., Maccarone, T.J., Court, J.M.C., Ikkiewicz, K.A., **Pala, A.F.** & Gandhi, P., 2021, *Population-based identification of  $H\alpha$ -excess sources in the Gaia DR2 and IPHAS catalogues*, MNRAS, 505, 1135 [\[ADS\]](#)
- Inight, K., Gänsicke, B.T., Breedt, E., Marsh, T.R., **Pala, A.F.** & Raddi, R., 2021, *Towards a volumetric census of close white dwarf binaries - I. Reference samples*, MNRAS, 504, 2420 [\[ADS\]](#)
- Norris, R.P., Baron, F.R., Monnier, J.D., **Paladini, C.**, Anderson, M.D., Martinez, A.O., Schaefer, G.H., Che, X., Chiavassa, A., Connelley, M.S., et al. , 2021, *Long Term Evolution of Surface Features on the Red Supergiant AZ Cyg*, ApJ, 919, 124 [\[ADS\]](#)
- Weigelt, G., Hofmann, K.H., Schertl, D., Lopez, B., Petrov, R.G., Lagarde, S., Berio, P., Jaffe, W., Henning, T., Millour, F., ..., **Paladini, C.**, et al. , 2021, *VLTI-MATISSE chromatic aperture-synthesis imaging of  $\eta$  Carinae's stellar wind across the Bra line. Periastron passage observations in February 2020*, A&A, 652, A140 [\[ADS\]](#)
- Griffiths, A., Conselice, C.J., Ferreira, L., Ceverino, D., Rosa-González, D., Huertas-Company, M., **Pampliega, B.A.**, Pérez-González, P.G., Sanchez, H.D. & Vega, O., 2021, *Emission line galaxies in the SHARDS Frontier Fields - I. Candidate selection and the discovery of bursty  $H\alpha$  emitters*, MNRAS, 508, 3860 [\[ADS\]](#)
- Veronesi, B., **Paneque-Carreño, T.**, Lodato, G., Testi, L., Pérez, L.M., Bertin, G. & Hall, C., 2021, *A Dynamical Measurement of the Disk Mass in Elias 227*, ApJL, 914, L27 [\[ADS\]](#)
- Magrini, L., Smiljanic, R., Franciosini, E., **Pasquini, L.**, Randich, S., Casali, G., Viscasillas Vázquez, C., Bragaglia, A., Spina, L., Biazzo, K., et al. , 2021, *Gaia-ESO survey: Lithium abundances in open cluster Red Clump stars*, A&A, 655, A23 [\[ADS\]](#)
- Magrini, L., Lagarde, N., Charbonnel, C., Franciosini, E., Randich, S., Smiljanic, R., Casali, G., Viscasillas Vázquez, C., Spina, L., Biazzo, K., **Pasquini, L.**, et al. , 2021, *The Gaia-ESO survey: Mixing processes in low-mass stars traced by lithium abundance in cluster and field stars*, A&A, 651, A84 [\[ADS\]](#)
- Smiljanic, R., Zych, M.G. & **Pasquini, L.**, 2021, *Inhomogeneity in the early Galactic chemical enrichment exposed by beryllium abundances in extremely metal-poor stars*, A&A, 646, A70 [\[ADS\]](#)
- Bowens, R., Meyer, M.R., Delacroix, C., Absil, O., van Boekel, R., Quanz, S.P., Shinde, M., Kenworthy, M., Carlmagno, B., Orban de Xivry, G., ... & **Pathak, P.**, 2021, *Exoplanets with ELT-METIS. I. Estimating the direct imaging exoplanet yield around stars within 6.5 parsecs*, A&A, 653, A8 [\[ADS\]](#)
- Pathak, P.**, Petit dit de la Roche, D.J.M., Kasper, M., Sterzik, M., Absil, O., Boehle, A., Feng, F., Ivanov, V.D., Janson, M., Jones, H.R.A., et al. , 2021, *High-contrast imaging at ten microns: A search for exoplanets around Eps Indi A, Eps Eri, Tau Ceti, Sirius A, and Sirius B*, A&A, 652, A121 [\[ADS\]](#)
- Wagner, K., Boehle, A., **Pathak, P.**, Kasper, M., Arsenault, R., Jakob, G., Käufel, U., Leveratto, S., Maire, A.L., Pantin, E., et al. , 2021, *Imaging low-mass planets within the habitable zone of a Centauri*, NatCo, 12, 922 [\[ADS\]](#)
- Ferrara, A. & **Peroux, C.**, 2021, *Late-time cosmic evolution of dust: solving the puzzle*, MNRAS, 503, 4537 [\[ADS\]](#)
- Nelson, D., Byrohl, C., **Peroux, C.**, Rubin, K.H.R. & Burchett, J.N., 2021, *The cold circumgalactic medium in emission: Mg II haloes in TNG50*, MNRAS, 507, 4445 [\[ADS\]](#)
- Davis, S., **Pessi, P.J.**, Fraser, M., Ertini, K., Martinez, L., Hoefflich, P., Hsiao, E.Y., Folatelli, G., Ashall, C.,

- Phillips, M.M., et al. , 2021, *SN 2013ai: A Link between Hydrogen-rich and Hydrogen-poor Core-collapse Supernovae*, ApJ, 909, 145 [\[ADS\]](#)
- Petit dit de la Roche, D.J.M.**, Oberg, N., van den Ancker, M.E., Kamp, I., van Boekel, R., Fedele, D., Ivanov, V.D., Kasper, M., Käufel, H.U., Kissler-Patig, M., et al. , 2021, *New mid-infrared imaging constraints on companions and protoplanetary disks around six young stars*, A&A, 648, A92 [\[ADS\]](#)
- Viswanath, G., Janson, M., Dahlgvist, C.-H., **Petit dit de la Roche, D.**, Samland, M., Girard, J., Pathak, P., Kasper, M., Feng, F., Meyer, M., et al. , 2021, *Constraints on the nearby exoplanet  $\epsilon$  Indi Ab from deep near- and mid-infrared imaging limits*, A&A, 651, A89 [\[ADS\]](#)
- Panić, O., Haworth, T.J., **Petr-Gotzens, M.G.**, Miley, J., van den Ancker, M., Vioque, M., Siess, L., Parker, R., Clarke, C.J., Kamp, I., et al. , 2021, *Planet formation in intermediate-separation binary systems*, MNRAS, 501, 4317 [\[ADS\]](#)
- Gravity Collaboration, Eupen, F., Labadie, L., Grellmann, R., Perraut, K., Brandner, W., Duchêne, G., Köhler, R., Sanchez-Bermudez, J., Garcia Lopez, R., ..., **Pfuhl, O.**, et al. , 2021, *The GRAVITY young stellar object survey. V. The orbit of the T Tauri binary star WW Cha*, A&A, 648, A37 [\[ADS\]](#)
- Gravity Collaboration, Ganci, V., Labadie, L., Klarmann, L., de Valon, A., Perraut, K., Benisty, M., Brandner, W., Caratti O Garatti, A., Dougados, C., ..., **Pfuhl, O.**, et al. , 2021, *The GRAVITY young stellar object survey. VIII. Gas and dust faint inner rings in the hybrid disk of HD141569*, A&A, 655, A112 [\[ADS\]](#)
- Sawada, T., Chang, C.-S., Franke, H., Gomez, L., Mangum, J.G., Miyamoto, Y., Nakazato, T., Nishie, S., **Phillips, N.M.** & Shimajiri, Y., 2021, *Offline Correction of Atmospheric Effects on Single-dish Radio Spectroscopy*, PASP, 133, 034504 [\[ADS\]](#)
- Poci, A.**, McDermid, R.M., Lyubenova, M., Zhu, L., van de Ven, G., Iodice, E., Coccatto, L., Pinna, F., Corsini, E.M., Falcón-Barroso, J., et al. , 2021, *The Fornax3D project: Assembly histories of lenticular galaxies from a combined dynamical and population orbital analysis*, A&A, 647, A145 [\[ADS\]](#)
- Willis, J.P., Oguri, M., Ramos-Ceja, M.E., Gastaldello, F., Sereno, M., Adami, C., Alis, S., Altieri, B., Chiappetti, L., Corasaniti, P.S., ..., **Pompei, E.**, et al. , 2021, *Understanding X-ray and optical selection of galaxy clusters: a comparison of the XXL and CAMIRA cluster catalogues obtained in the common XXL-HSC SSP area*, MNRAS, 503, 5624 [\[ADS\]](#)
- Casey, C.M., Zavala, J.A., Manning, S.M., Aravena, M., Bethermin, M., Caputi, K.I., Champagne, J.B., Clements, D.L., Drew, P., Finkelstein, S.L., ..., **Popping, G.**, et al. , 2021, *Mapping Obscuration to Reionization with ALMA (MORA): 2 mm Efficiently Selects the Highest-redshift Obscured Galaxies*, ApJ, 923, 215 [\[ADS\]](#)
- Olsen, K.P., Burkhardt, B., Mac Low, M.-M., Treß, R.G., Greve, T.R., Vizgan, D., Motka, J., Borrow, J., **Popping, G.**, Davé, R., et al. , 2021, *SÍGAME v3: Gas Fragmentation in Postprocessing of Cosmological Simulations for More Accurate Infrared Line Emission Modeling*, ApJ, 922, 88 [\[ADS\]](#)
- Uzgil, B.D., Oesch, P.A., Walter, F., Aravena, M., Boogaard, L., Carilli, C., Decarli, R., Díaz-Santos, T., Fudamoto, Y., Inami, H., ..., **Popping, G.**, et al. , 2021, *The ALMA Spectroscopic Survey in the HUDF: A Search for [C II] Emitters at  $6 \leq z \leq 8$* , ApJ, 912, 67 [\[ADS\]](#)
- Yang, S., Somerville, R.S., Pullen, A.R., **Popping, G.**, Breyse, P.C. & Maniyan, A.S., 2021, *Multitracer Cosmological Line Intensity Mapping Mock Light-cone Simulation*, ApJ, 911, 132 [\[ADS\]](#)
- Yang, S., Lidz, A. & **Popping, G.**, 2021, *The prospects for observing [O III] 52 micron emission from galaxies during the Epoch of Reionization*, MNRAS, 504, 723 [\[ADS\]](#)
- Yung, L.Y.A., Somerville, R.S., Finkelstein, S.L., Hirschmann, M., Davé, R., **Popping, G.**, Gardner, J.P. & Venkatesan, A., 2021, *Semi-analytic forecasts for JWST - V. AGN luminosity functions and helium reionization at  $z = 2-7$* , MNRAS, 508, 2706 [\[ADS\]](#)
- Zavala, J.A., Casey, C.M., Manning, S.M., Aravena, M., Bethermin, M., Caputi, K.I., Clements, D.L., Cunha, E.d., Drew, P., Finkelstein, S.L., ..., **Popping, G.**, et al. , 2021, *The Evolution of the IR Luminosity Function and Dust-obscured Star Formation over the Past 13 Billion Years*, ApJ, 909, 165 [\[ADS\]](#)
- Bhardwaj, A., **Rejkuba, M.**, Sloan, G.C., Marconi, M. & Yang, S.-C., 2021, *Optical and Near-infrared Pulsation Properties of RR Lyrae and Population II Cepheid Variables in the Messier 15 Globular Cluster*, ApJ, 922, 20 [\[ADS\]](#)
- Bhardwaj, A., **Rejkuba, M.**, de Grijs, R., Yang, S.-C., Herczeg, G.J., Marconi, M., Singh, H.P., Kanbur, S. & Ngeow, C.-C., 2021, *RR Lyrae Variables in Messier 53: Near-infrared Period-Luminosity Relations and the Calibration Using Gaia Early Data Release 3*, ApJ, 909, 200 [\[ADS\]](#)
- Das, S., Kanbur, S.M., Smolec, R., Bhardwaj, A., Singh, H.P. & **Rejkuba, M.**, 2021, *A theoretical framework for BL Her stars - I. Effect of metallicity and convection parameters on period-luminosity and period-radius relations*, MNRAS, 501, 875 [\[ADS\]](#)
- Martocchia, S., Lardo, C., **Rejkuba, M.**, Kamann, S., Bastian, N., Larsen, S., Cabrera-Ziri, I., Chantereau, W., Dalessandro, E. & Kacharov, N., 2021, *On the Nitrogen variation in 2 Gyr old massive star clusters in the large Magellanic Cloud*, MNRAS, 505, 5389 [\[ADS\]](#)
- Minniti, D., Ripepi, V., Fernández-Trincado, J.G., Alonso-García, J., Smith, L.C., Lucas, P.W., Gómez, M., Pullen, J.B., Garro, E.R., Vivanco Cádiz, F., ..., **Rejkuba, M.**, et al. , 2021, *Discovery of new globular clusters in the Sagittarius dwarf galaxy*, A&A, 647, L4 [\[ADS\]](#)
- Rivière-Marichalar, P., Fuente, A., Le Gal, R., Arabhavi, A.M., Cazaux, S., Navarro-Almada, D., **Ribas, A.**, Mendigutía, I., Barrado, D. & Montesinos, B., 2021, *H<sub>2</sub>S observations in young stellar disks in Taurus*, A&A, 652, A46 [\[ADS\]](#)
- Czekala, I., **Ribas, A.**, Cuello, N., Chiang, E., Macías, E., Duchêne, G., Andrews, S.M. & Espaillat, C.C., 2021, *A Coplanar Circumbinary Protoplanetary Disk in the TWA 3 Triple M Dwarf System*, ApJ, 912, 6 [\[ADS\]](#)
- Lillo-Box, J., **Ribas, A.**, Montesinos, B., Santos, N.C., Campante, T., Cunha, M., Barrado, D., Villaver, E., Sousa, S., Bouy, H., et al. , 2021, *Uncovering the ultimate planet impostor. An eclipsing brown dwarf in a hierarchical triple with two evolved stars*, A&A, 653, A40 [\[ADS\]](#)
- Erba, C., Shultz, M.E., Petit, V., Fullerton, A.W., Henrichs, H.F., Kochukhov, O., **Rivinius, T.** & Wade, G.A., 2021, *Confirmation of  $\xi^1$  CMa's ultra-slow rotation: magnetic polarity reversal and a dramatic change in magnetospheric UV emission lines*, MNRAS, 506, 2296 [\[ADS\]](#)
- Klement, R., Hadrava, P., **Rivinius, T.**, Baade, D., Cabezas, M., Heida, M., Schaefer, G.H., Gardner, T., Gies, D.R., Anugu, N., et al. , 2021, *v Gem: A Hierarchical Triple System with an Outer Be Star*, ApJ, 916, 24 [\[ADS\]](#)
- Shultz, M.E., **Rivinius, T.**, Wade, G.A., Kochukhov, O., Alecian, E., David-Uraz, A. & Sikora, J., 2021, *MOBSTER - V. Discovery of a magnetic companion star to the magnetic  $\beta$  Cep pulsator HD 156424*, MNRAS, 504, 4850 [\[ADS\]](#)
- Cont, D., Yan, F., Reiners, A., Casasayas-Barris, N., Mollière, P., Pallé, E., Henning, T., Nortmann, L., Stangret, M., Czesla, S., ..., **Rodler, F.**, et al. , 2021, *Detection of Fe and evidence for TiO in the dayside emission spectrum of WASP-33b*, A&A, 651, A33 [\[ADS\]](#)
- Hoyer, S., Gandolfi, D., Armstrong, D.J., Deleuil, M., Acuña, L., de Medeiros, J.R., Goffo, E., Lillo-Box, J.,



- Delgado Mena, E., Lopez, T.A., ..., **Rodler, F.**, et al. , 2021, *TOI-220 b: a warm sub-Neptune discovered by TESS*, MNRAS, 505, 3361 [\[ADS\]](#)
- Kirk, J., Rackham, B.V., MacDonald, R.J., López-Morales, M., Espinoza, N., Lendl, M., Wilson, J., Osip, D.J., Wheatley, P.J., Skillen, I., ..., **Rodler, F.**, et al. , 2021, *ACCESS and LRG-BEASTS: A Precise New Optical Transmission Spectrum of the Ultrahot Jupiter WASP-103b*, AJ, 162, 34 [\[ADS\]](#)
- Luque, R., Serrano, L.M., Molaverdikhani, K., Nixon, M.C., Livingston, J.H., Guenther, E.W., Pallé, E., Madhusudhan, N., Nowak, G., Korth, J., ..., **Rodler, F.**, et al. , 2021, *A planetary system with two transiting mini-Neptunes near the radius valley transition around the bright M dwarf TOI-776*, A&A, 645, A41 [\[ADS\]](#)
- Ripepi, V., Catanzaro, G., Molinaro, R., Gatto, M., De Somma, G., Marconi, M., **Romaniello, M.**, Leccia, S., Musella, I., Trentin, E., et al. , 2021, *Cepheid metallicity in the Leavitt law (C-metal) survey - I. HARPS-N@TNG spectroscopy of 47 classical Cepheids and 1 BL Her variables*, MNRAS, 508, 4047 [\[ADS\]](#)
- Langlois, M., Gratton, R., Lagrange, A.M., Delorme, P., Boccaletti, A., Bonnefoy, M., Maire, A.L., Mesa, D., Chauvin, G., Desidera, S., ..., **Romero, C.**, et al. , 2021, *The SPHERE infrared survey for exoplanets (SHINE). II. Observations, data reduction and analysis, detection performances, and initial results*, A&A, 651, A71 [\[ADS\]](#)
- Romero, C.**, Milli, J., Lagrange, A.M., van Holstein, R.G., Cantalloube, F., Marino, S. & Ray, S., 2021, *The HD 206893 planetary system seen with VLT/SPHERE. Upper limit on the dust albedo and constraints on additional companions*, A&A, 651, A34 [\[ADS\]](#)
- Schulze, S., Yaron, O., Sollerman, J., Leloudas, G., Gal, A., Wright, A.H., Lunnan, R., Gal-Yam, A., Ofek, E.O., Perley, D.A., ..., **Rubin, A.**, et al. , 2021, *The Palomar Transient Factory Core-collapse Supernova Host-galaxy Sample. I. Host-galaxy Distribution Functions and Environment Dependence of Core-collapse Supernovae*, ApJS, 255, 29 [\[ADS\]](#)
- Sanchis, E.**, Testi, L., Natta, A., Facchini, S., Manara, C.F., Miotello, A., Ercolano, B., Henning, T., Preibisch, T., Carpenter, J.M., et al. , 2021, *Measuring the ratio of the gas and dust emission radii of protoplanetary disks in the Lupus star-forming region*, A&A, 649, A19 [\[ADS\]](#)
- Berton, M., Peluso, G., Marziani, P., Komossa, S., Foschini, L., Ciroi, S., Chen, S., Congiu, E., Gallo, L.C., Björklund, I., ..., **Sani, E.**, et al. , 2021, *Hunting for the nature of the enigmatic narrow-line Seyfert 1 galaxy PKS 2004-447*, A&A, 654, A125 [\[ADS\]](#)
- Vanzella, E., Caminha, G.B., Rosati, P., Mercurio, A., Castellano, M., Meneghetti, M., Grillo, C., **Sani, E.**, Bergamini, P., Calura, F., et al. , 2021, *The MUSE Deep Lensed Field on the Hubble Frontier Field MACS J0416. Star-forming complexes at cosmological distances*, A&A, 646, A57 [\[ADS\]](#)
- Santamaría-Miranda, A.**, de Gregorio-Monsalvo, I., Plunkett, A.L., Huélamo, N., López, C., Ribas, Á., Schreiber, M.R., Mužić, K., Palau, A., Knee, L.B.G., et al. , 2021, *ALMA observations of the early stages of substellar formation in the Lupus 1 and 3 molecular clouds*, A&A, 646, A10 [\[ADS\]](#)
- Guesalaga, A., Ayancán, B., **Sarazin, M.**, Wilson, R.W., Perera, S. & Le Louarn, M., 2021, *FASS: a turbulence profiler based on a fast, low-noise camera*, MNRAS, 501, 3030 [\[ADS\]](#)
- Bassani, L., Ursini, F., Malizia, A., Bruni, G., Panessa, F., Masetti, N., **Saviane, I.**, Monaco, L., Venturi, T., Dallacasa, D., et al. , 2021, *Soft gamma-ray selected giant radio galaxies: an update*, MNRAS, 500, 3111 [\[ADS\]](#)
- Mucciarelli, A., Monaco, L., Bonifacio, P., Salaris, M., **Saviane, I.**, Lanzoni, B., Momany, Y. & Lo Curto, G., 2021, *Curiouser and curiously: the peculiar chemical composition of the Li- and Na-rich star in  $\omega$  Centauri*, A&A, 652, A139 [\[ADS\]](#)
- Aguado, D.S., Belokurov, V., Myeong, G.C., Evans, N.W., Kobayashi, C., **Sbordone, L.**, Chanamé, J., Navarrete, C. & Koposov, S.E., 2021, *Elevated r-process Enrichment in Gaia Sausage and Sequoia*, ApJL, 908, L8 [\[ADS\]](#)
- Aguado, D.S., Myeong, G.C., Belokurov, V., Evans, N.W., Koposov, S.E., Allende Prieto, C., Lanfranchi, G.A., Matteucci, F., Shetrone, M., **Sbordone, L.**, et al. , 2021, *The S2 stream: the shreds of a primitive dwarf galaxy*, MNRAS, 500, 889 [\[ADS\]](#)
- Bonifacio, P., Monaco, L., Salvadori, S., Caffau, E., Spite, M., **Sbordone, L.**, Spite, F., Ludwig, H.G., Di Matteo, P., Haywood, M., et al. , 2021, *TOPoS. VI. The metal-weak tail of the metallicity distribution functions of the Milky Way and the Gaia-Sausage-Enceladus structure*, A&A, 651, A79 [\[ADS\]](#)
- Caffau, E., Bonifacio, P., Korotin, S.A., François, P., Lallement, R., Matas Pinto, A.M., Di Matteo, P., Steffen, M., Mucciarelli, A., Katz, D., ..., **Sbordone, L.**, et al. , 2021, *The Gaia RVS benchmark stars. I. Chemical inventory of the first sample of evolved stars and its Rb NLTE investigation*, A&A, 651, A20 [\[ADS\]](#)
- Franchini, M., Morossi, C., Di Marcantonio, P., Chavez, M., Adibekyan, V., Bensby, T., Bragaglia, A., Gonneau, A., Heiter, U., Kordopatis, G., ..., **Sbordone, L.**, et al. , 2021, *The Gaia-ESO Survey: Oxygen Abundance in the Galactic Thin and Thick Disks*, AJ, 161, 9 [\[ADS\]](#)
- Matas Pinto, A.M., Spite, M., Caffau, E., Bonifacio, P., **Sbordone, L.**, Sivarani, T., Steffen, M., Spite, F., François, P. & Di Matteo, P., 2021, *The metal-poor end of the Spite plateau. II. Chemical and dynamical investigation*, A&A, 654, A170 [\[ADS\]](#)
- Minniti, J.H., Zoccali, M., Rojas-Arriagada, A., Minniti, D., **Sbordone, L.**, Contreras Ramos, R., Braga, V.F., Catelan, M., Duffau, S., Gieren, W., et al. , 2021, *Using classical Cepheids to study the far side of the Milky Way disk. II. The spiral structure in the first and fourth Galactic quadrants*, A&A, 654, A138 [\[ADS\]](#)
- Wehbe, B., Cabral, A., **Sbordone, L.** & Ávila, G., 2021, *On-sky measurements of atmospheric dispersion - II. Atmospheric models characterization*, MNRAS, 503, 3818 [\[ADS\]](#)
- Fuentes-Morales, I., Tappert, C., Zorotovic, M., Vogt, N., Puebla, E.C., Schreiber, M.R., Ederoclitte, A. & **Schmidtobreick, L.**, 2021, *Life after eruption VIII: The orbital periods of novae*, MNRAS, 501, 6083 [\[ADS\]](#)
- Kim, H., Lee, H.-G., Ohya, Y., Kim, J.H., **Sciicluna, P.**, Chu, Y.-H., Mauron, N. & Ueta, T., 2021, *Multiepoch Optical Images of IRC+10216 Tell about the Central Star and the Adjacent Environment*, ApJ, 914, 35 [\[ADS\]](#)
- Marshall, J.P., Wang, L., Kennedy, G.M., Zeegers, S.T. & **Sciicluna, P.**, 2021, *A search for trends in spatially resolved debris discs at far-infrared wavelengths*, MNRAS, 501, 6168 [\[ADS\]](#)
- Sedaghat, N.**, Romaniello, M., Carrick, J.E. & Pineau, F.-X., 2021, *Machines learn to infer stellar parameters just by looking at a large number of spectra*, MNRAS, 501, 6026 [\[ADS\]](#)
- Casasayas-Barris, N., Orell-Miquel, J., Stangret, M., Nortmann, L., Yan, F., Oshagh, M., Palle, E., Sanz-Forcada, J., López-Puertas, M., Nagel, E., ...& **Sedaghati, E.**, 2021, *CARMENES detection of the Ca II infrared triplet and possible evidence of He I in the atmosphere of WASP-76b*, A&A, 654, A163 [\[ADS\]](#)
- Estrela, R., Swain, M.R., Roudier, G.M., West, R., **Sedaghati, E.** & Valio, A., 2021, *Detection of Aerosols at Microbar Pressures in an Exoplanet Atmosphere*, AJ, 162, 91 [\[ADS\]](#)
- Sedaghati, E.**, MacDonald, R.J., Casasayas-Barris, N., Hoeijmakers, H.J., Boffin, H.M.J., Rodler, F., Brahm, R., Jones, M., Sánchez-López, A., Carleo, I., et al. , 2021, *A spectral survey of WASP-19b with ESPRESSO*, MNRAS, 505, 435 [\[ADS\]](#)

- Castro, N., Crowther, P.A., Evans, C.J., Vink, J.S., Puls, J., Herrero, A., Garcia, M., **Selman, F.J.**, Roth, M.M. & Simón-Díaz, S., 2021, *Mapping the core of the Tarantula Nebula with VLT-MUSE. II. The spectroscopic Hertzsprung-Russell diagram of OB stars in NGC 2070*, A&A, 648, A65 [\[ADS\]](#)
- Krelowski, J., Galazutdinov, G.A., Gnaciński, P., Hakalla, R., Szajna, W. & **Siebenmorgen, R.**, 2021, *Broadened profiles of diffuse interstellar bands*, MNRAS, 508, 4241 [\[ADS\]](#)
- Belloni, D., Rodrigues, C.V., Schreiber, M.R., Castro, M., Costa, J.E.R., Hayashi, T., Lima, I.J., Luna, G.J.M., Martins, M., Oliveira, A.S., ..., **Silva, K.M.G.**, et al. , 2021, *Breaking the Degeneracy in Magnetic Cataclysmic Variable X-Ray Spectral Modeling Using X-Ray Light Curves*, ApJS, 256, 45 [\[ADS\]](#)
- Brogaard, K., Grundahl, F., Sandquist, E.L., **Slumstrup, D.**, Jensen, M.L., Thomsen, J.B., Jørgensen, J.H., Larsen, J.R., Bjørn, S.T., Sørensen, C.T.G., et al. , 2021, *Age and helium content of the open cluster NGC 6791 from multiple eclipsing binary members. III. Constraints from a subgiant*, A&A, 649, A178 [\[ADS\]](#)
- Brogaard, K., Pakštienė, E., Grundahl, F., Mikolaitis, Š., Tautvaišienė, G., **Slumstrup, D.**, Talens, G.J.J., VandenBerg, D.A., Miglio, A., Arentoft, T., et al. , 2021, *Properties of the Hyades, the eclipsing binary HD 27130, and the oscillating red giant  $\epsilon$  Tauri*, A&A, 645, A25 [\[ADS\]](#)
- Gratton, R., D'Orazi, V., Pacheco, T.A., Zurlo, A., Desidera, S., Meléndez, J., Mesa, D., Claudi, R., Janson, M., Langlois, M., ..., **Soenke, C.**, et al. , 2021, *Investigating three Sirius-like systems with SPHERE*, A&A, 646, A61 [\[ADS\]](#)
- Barbosa, C.E., **Spiniello, C.**, Arnaboldi, M., Coccato, L., Hilker, M. & Richtler, T., 2021, *A preserved high-z compact progenitor in the heart of NGC 3311 revealed with MUSE 2D stellar population analysis*, A&A, 649, A93 [\[ADS\]](#)
- Larsson, J., Sollerman, J., Lyman, J.D., **Spyromilio, J.**, Tenhu, L., Fransson, C. & Lundqvist, P., 2021, *Clumps and Rings of Ejecta in SNR 0540-69.3 as Seen in 3D*, ApJ, 922, 265 [\[ADS\]](#)
- Grandjean, A., Lagrange, A.M., Meunier, N., Rubini, P., Desidera, S., Galland, F., Borgniet, S., Zicher, N., Messina, S., Chauvin, G., **Sterzik, M.**, et al. , 2021, *A SOPHIE RV search for giant planets around young nearby stars (YNS). A combination with the HARPS YNS survey*, A&A, 650, A39 [\[ADS\]](#)
- Whelan, E.T., Pascucci, I., Gorti, U., Edwards, S., Alexander, R.D., **Sterzik, M.F.** & Melo, C., 2021, *Evidence for an MHD Disk Wind via Optical Forbidden Line Spectroastrometry*, ApJ, 913, 43 [\[ADS\]](#)
- Massardi, M., **Stoehr, F.**, Bendo, G.J., Bonato, M., Brand, J., Galluzzi, V., Guglielmetti, F., Liuzzo, E., Marchili, N., Richards, A.M.S., et al. , 2021, *The Additional Representative Images for Legacy (ARI-L) Project for the ALMA Science Archive*, PASP, 133, 085001 [\[ADS\]](#)
- Szakacs, R.**, Péroux, C., Zwaan, M., Hamanowicz, A., Klitsch, A., Fresco, A.Y., Augustin, R., Biggs, A., Kulkarni, V. & Rahmani, H., 2021, *MUSE-ALMA haloes VI: coupling atomic, ionized, and molecular gas kinematics of galaxies*, MNRAS, 505, 4746 [\[ADS\]](#)
- Benedettini, M., Traficante, A., Olmi, L., Pezzuto, S., Baldeschi, A., Molinari, S., Elia, D., Schisano, E., Merello, M., Fontani, F., ... & **Testi, L.**, 2021, *Molecular cloud catalogue from 13CO (1-0) data of the Forgotten Quadrant Survey*, A&A, 654, A144 [\[ADS\]](#)
- Colzi, L., Rivilla, V.M., Beltrán, M.T., Jiménez-Serra, I., Mininni, C., Melosso, M., Cesaroni, R., Fontani, F., Lorenzani, A., Sánchez-Monge, A., ..., **Testi, L.**, et al. , 2021, *The GUAPSO project. II. A comprehensive study of peptide-like bond molecules*, A&A, 653, A129 [\[ADS\]](#)
- Garufi, A., Podio, L., Codella, C., Fedele, D., Bianchi, E., Favre, C., Bacciotti, F., Ceccarelli, C., Mercimek, S., Rygl, K., ... & **Testi, L.**, 2021, *ALMA chemical survey of disk-outflow sources in Taurus (ALMA-DOT). V. Sample, overview, and demography of disk molecular emission*, A&A, 645, A145 [\[ADS\]](#)
- Lebreuilly, U., Hennebelle, P., Colman, T., Commerçon, B., Klessen, R., Maury, A., Molinari, S. & **Testi, L.**, 2021, *Protoplanetary Disk Birth in Massive Star-forming Clumps: The Essential Role of the Magnetic Field*, ApJL, 917, L10 [\[ADS\]](#)
- Mininni, C., Fontani, F., Sánchez-Monge, A., Rivilla, V.M., Beltrán, M.T., Zahorecz, S., Immer, K., Giannetti, A., Caselli, P., Colzi, L., **Testi, L.**, et al. , 2021, *The TOPGöt high-mass star-forming sample. I. Methyl cyanide emission as tracer of early phases of star formation*, A&A, 653, A87 [\[ADS\]](#)
- Paneque-Carreño, T., Pérez, L.M., Benisty, M., Hall, C., Veronesi, B., Lodato, G., Sierra, A., Carpenter, J.M., Andrews, S.M., Bae, J., ..., **Testi, L.**, et al. , 2021, *Spiral Arms and a Massive Dust Disk with Non-Keplerian Kinematics: Possible Evidence for Gravitational Instability in the Disk of Elias 2-27*, ApJ, 914, 88 [\[ADS\]](#)
- Podio, L., Tabone, B., Codella, C., Gueth, F., Maury, A., Cabrit, S., Lefloch, B., Maret, S., Belloche, A., André, P., ... & **Testi, L.**, 2021, *The CALYPSO IRAM-PdBI survey of jets from Class 0 protostars. Exploring whether jets are ubiquitous in young stars*, A&A, 648, A45 [\[ADS\]](#)
- Tazzari, M., Clarke, C.J., **Testi, L.**, Williams, J.P., Facchini, S., Manara, C.F., Natta, A. & Rosotti, G., 2021, *Multiwavelength continuum sizes of protoplanetary discs: scaling relations and implications for grain growth and radial drift*, MNRAS, 506, 2804 [\[ADS\]](#)
- Tazzari, M., **Testi, L.**, Natta, A., Williams, J.P., Ansdell, M., Carpenter, J.M., Facchini, S., Guidi, G., Hogherheijde, M., Manara, C.F., et al. , 2021, *The first ALMA survey of protoplanetary discs at 3 mm: demographics of grain growth in the Lupus region*, MNRAS, 506, 5117 [\[ADS\]](#)
- Toci, C., Rosotti, G., Lodato, G., **Testi, L.** & Trapman, L., 2021, *On the secular evolution of the ratio between gas and dust radii in protoplanetary discs*, MNRAS, 507, 818 [\[ADS\]](#)
- Zahorecz, S., Jimenez-Serra, I., **Testi, L.**, Immer, K., Fontani, F., Caselli, P., Wang, K. & Onishi, T., 2021, *Singly and doubly deuterated formaldehyde in massive star-forming regions*, A&A, 653, A45 [\[ADS\]](#)
- Thomas, R.**, Pentericci, L., Le Fèvre, O., Koekemoer, A.M., Castellano, M., Cimatti, A., Fontanot, F., Gargiulo, A., Garilli, B., Talia, M., et al. , 2021, *Less and more IGM-transmitted galaxies from  $z \sim 2.7$  to  $z \sim 6$  from VANDELS and VUDS*, A&A, 650, A63 [\[ADS\]](#)
- Thomas, R.**, 2021, *SPARTAN: Maximizing the use of spectro-photometric observational data during template fitting*, A&C, 34, 100427 [\[ADS\]](#)
- Uttley, P., Hartog, R.d., Bambi, C., Barret, D., Bianchi, S., Bursa, M., Cappi, M., Casella, P., Cash, W., Costantini, E., ..., **Trigo, M.D.**, et al. , 2021, *The high energy Universe at ultra-high resolution: the power and promise of X-ray interferometry*, ExA, 51, 1081 [\[ADS\]](#)
- Gamez Rosas, V., Isbell, J.W., Jaffe, W., Petrov, R.G., Leftley, J.H., Hofmann, K.-H., Millour, F., Burtscher, L., Meisenheimer, K., Meiland, A., ..., **Tristram, K.**, et al. , 2021, *Thermal imaging of dust hiding the black hole in the Active Galaxy NGC 1068*, arXiv:2112.13694 [\[ADS\]](#)
- Marciniak, A., Durech, J., Ali-Lagoa, V., Ogloza, W., Szakáts, R., Müller, T.G., Molnár, L., Pál, A., Monteiro, F., Arcoverde, P., ..., **Tychoniec, Ł.**, et al. , 2021, *Properties of slowly rotating asteroids from the Convex Inversion Thermophysical Model*, A&A, 654, A87 [\[ADS\]](#)
- Mirocha, A., Karska, A., Gronowski, M., Kristensen, L.E., **Tychoniec, Ł.**, Harsono, D., Figueira, M., Gładkowski, M. & Żółtowski, M., 2021, *Signatures of UV radiation in low-mass protostars. I. Origin of HCN and CN*

- emission in the Serpens Main region, *A&A*, 656, A146 [\[ADS\]](#)
- Nazari, P., van Gelder, M.L., van Dishoeck, E.F., Tabone, B., van't Hoff, M.L.R., Ligterink, N.F.W., Beuther, H., Boogert, A.C.A., Caratti o Garatti, A., Klaassen, P.D., ... & **Tychoniec, Ł.**, 2021, *Complex organic molecules in low-mass protostars on Solar System scales. II. Nitrogen-bearing species*, *A&A*, 650, A150 [\[ADS\]](#)
- Tychoniec, Ł.**, van Dishoeck, E.F., van't Hoff, M.L.R., van Gelder, M.L., Tabone, B., Chen, Y., Harsono, D., Hull, C.L.H., Hogerheijde, M.R. & Murillo, N.M., 2021, *Which molecule traces what: Chemical diagnostics of protostellar sources*, *A&A*, 655, A65 [\[ADS\]](#)
- Córsico, A.H., **Uzundag, M.**, Kepler, S.O., Althaus, L.G., Silvotti, R., Baran, A.S., Vučković, M., Werner, K., Bell, K.J. & Higgins, M., 2021, *Pulsating hydrogen-deficient white dwarfs and pre-white dwarfs observed with TESS. I. Asteroseismology of the GW Vir stars RX J2117+3412, HS 2324+3944, NGC 6905, NGC 1501, NGC 2371, and K 1-16*, *A&A*, 645, A117 [\[ADS\]](#)
- Reed, M.D., Slayton, A., Baran, A.S., Telting, J.H., Østensen, R.H., Jeffery, C.S., **Uzundag, M.** & Sanjayan, S., 2021, *Pulsating subdwarf B stars observed with K2 during Campaign 7 and an examination of seismic group properties*, *MNRAS*, 507, 4178 [\[ADS\]](#)
- Uzundag, M.**, Córscico, A.H., Kepler, S.O., Althaus, L.G., Werner, K., Reindl, N., Bell, K.J., Higgins, M., da Rosa, G.O. & Vučković, M., 2021, *Pulsating hydrogen-deficient white dwarfs and pre-white dwarfs observed with TESS. II. Discovery of two new GW Vir stars: TIC 333432673 and TIC 095332541*, *A&A*, 655, A27 [\[ADS\]](#)
- Uzundag, M.**, Vučković, M., Németh, P., Miller Bertolami, M., Silvotti, R., Baran, A.S., Telting, J.H., Reed, M., Shoaf, K.A. & Østensen, R.H., 2021, *Asteroseismic analysis of variable hot subdwarf stars observed with TESS. I. The mean g-mode period spacings in hot subdwarf B stars*, *A&A*, 651, A121 [\[ADS\]](#)
- Vos, J., Pelisoli, I., Budaj, J., Reindl, N., Schaffenroth, V., Bobrick, A., Geier, S., Hermes, J., Németh, P., Østensen, R., ..., **Uzundag, M.**, et al. , 2021, *Looking into the cradle of the grave: J22564-5910, a potential young post-merger hot subdwarf*, *A&A*, 655, A43 [\[ADS\]](#)
- Braga, V.F., Crestani, J., Fabrizio, M., Bono, G., Sneden, C., Preston, G.W., Storm, J., Kamann, S., Latour, M., Lala, H., ..., **Valenti, E.**, et al. , 2021, *On the Use of Field RR Lyrae as Galactic Probes. V. Optical and Radial Velocity Curve Templates*, *ApJ*, 919, 85 [\[ADS\]](#)
- Crestani, J., Fabrizio, M., Braga, V.F., Sneden, C., Preston, G., Ferraro, I., Iannicola, G., Bono, G., Alves-Brito, A., Nonino, M., ..., **Valenti, E.**, et al. , 2021, *On the Use of Field RR Lyrae as Galactic Probes. II. A New  $\Delta S$  Calibration to Estimate Their Metallicity*, *ApJ*, 908, 20 [\[ADS\]](#)
- Crestani, J., Braga, V.F., Fabrizio, M., Bono, G., Sneden, C., Preston, G., Ferraro, I., Iannicola, G., Nonino, M., Fiorentino, G., ..., **Valenti, E.**, et al. , 2021, *On the Use of Field RR Lyrae as Galactic Probes. III. The  $\alpha$ -element Abundances*, *ApJ*, 914, 10 [\[ADS\]](#)
- Fabrizio, M., Braga, V.F., Crestani, J., Bono, G., Ferraro, I., Fiorentino, G., Iannicola, G., Preston, G.W., Sneden, C., Thévenin, F., ..., **Valenti, E.**, et al. , 2021, *On the Use of Field RR Lyrae As Galactic Probes: IV. New Insights Into and Around the Oosterhoff Dichotomy*, *ApJ*, 919, 118 [\[ADS\]](#)
- Ferraro, F.R., Pallanca, C., Lanzoni, B., Crociati, C., Dalessandro, E., Origlia, L., Rich, R.M., Saracino, S., Mucciarelli, A., **Valenti, E.**, et al. , 2021, *A new class of fossil fragments from the hierarchical assembly of the Galactic bulge*, *NatAs*, 5, 311 [\[ADS\]](#)
- Pallanca, C., Ferraro, F.R., Lanzoni, B., Crociati, C., Saracino, S., Dalessandro, E., Origlia, L., Rich, M.R., **Valenti, E.**, Geisler, D., et al. , 2021, *High-resolution Extinction Map in the Direction of the Strongly Obscured Bulge Fossil Fragment Liller 1*, *ApJ*, 917, 92 [\[ADS\]](#)
- Zhao, H., Schultheis, M., Recio-Blanco, A., Kordopatis, G., de Laverny, P., Rojas-Arriagada, A., Zoccali, M., Surot, F. & **Valenti, E.**, 2021, *The diffuse interstellar band around 8620 Å. I. Methods and application to the GIBS data set*, *A&A*, 645, A14 [\[ADS\]](#)
- Zoccali, M., **Valenti, E.**, Surot, F., Gonzalez, O.A., Renzini, A. & Valenzuela Navarro, A., 2021, *A new distance to the Brick, the dense molecular cloud G0.253+0.016*, *MNRAS*, 502, 1246 [\[ADS\]](#)
- van den Ancker, M.E.**, Gentile Fusillo, N.P., Haworth, T.J., Manara, C.F., Miles-Páez, P.A., Oudmaijer, R.D., Panić, O., Petit dit de la Roche, D.J.M., Petr-Gotzens, M.G. & Vioque, M., 2021, *First detection of a disk free of volatile elements around a young A-type star: A possible sign of collisions between rocky planets*, *A&A*, 651, L11 [\[ADS\]](#)
- Ahad, S.L., Bahé, Y.M., Hoekstra, H., **van der Burg, R.F.J.** & Muzzin, A., 2021, *The stellar mass function and evolution of the density profile of galaxy clusters from the Hydrangea simulations at  $0 < z < 1.5$* , *MNRAS*, 504, 1999 [\[ADS\]](#)
- Balogh, M.L., **van der Burg, R.F.J.**, Muzzin, A., Rudnick, G., Wilson, G., Webb, K., Biviano, A., Boak, K., Cerulo, P., Chan, J., et al. , 2021, *The GOGREEN and GCLASS surveys: first data release*, *MNRAS*, 500, 358 [\[ADS\]](#)
- Biviano, A., **van der Burg, R.F.J.**, Balogh, M.L., Munari, E., Cooper, M.C., De Lucia, G., Demarco, R., Jablonka, P., Muzzin, A., Nantais, J., et al. , 2021, *The GOGREEN survey: Internal dynamics of clusters of galaxies at redshift 0.9-1.4*, *A&A*, 650, A105 [\[ADS\]](#)
- Chan, J.C.C., Wilson, G., Balogh, M., Rudnick, G., **van der Burg, R.F.J.**, Muzzin, A., Webb, K.A., Biviano, A., Cerulo, P., Cooper, M.C., et al. , 2021, *The GOGREEN Survey: Evidence of an Excess of Quiescent Disks in Clusters at 1.0*, *ApJ*, 920, 32 [\[ADS\]](#)
- CHEX-MATE Collaboration, Arnaud, M., Ettori, S., Pratt, G.W., Rossetti, M., Eckert, D., Gastaldello, F., Gavazzi, R., Kay, S.T., Lovisari, L., ..., **van der Burg, R.F.J.**, et al. , 2021, *The Cluster HERitage project with XMM-Newton: Mass Assembly and Thermodynamics at the Endpoint of structure formation. I. Programme overview*, *A&A*, 650, A104 [\[ADS\]](#)
- Ghizzardi, S., Molendi, S., **van der Burg, R.**, De Grandi, S., Bartalucci, I., Gastaldello, F., Rossetti, M., Biffi, V., Borgani, S., Eckert, D., et al. , 2021, *Iron in X-COP: Tracing enrichment in cluster outskirts with high accuracy abundance profiles*, *A&A*, 646, A92 [\[ADS\]](#)
- Matharu, J., Muzzin, A., Brammer, G.B., Nelson, E.J., Auger, M.W., Hewett, P.C., **van der Burg, R.**, Balogh, M., Demarco, R., Marchesini, D., et al. , 2021, *HST/WFC3 Grism Observations of  $z \sim 1$  Clusters: Evidence for Rapid Outside-in Environmental Quenching from Spatially Resolved H $\alpha$  Maps*, *ApJ*, 923, 222 [\[ADS\]](#)
- McNab, K., Balogh, M.L., **van der Burg, R.F.J.**, Forestell, A., Webb, K., Vulcani, B., Rudnick, G., Muzzin, A., Cooper, M.C., McGee, S., et al. , 2021, *The GOGREEN survey: transition galaxies and the evolution of environmental quenching*, *MNRAS*, 508, 157 [\[ADS\]](#)
- Prole, D.J., **van der Burg, R.F.J.**, Hilker, M. & Spitler, L.R., 2021, *The quiescent fraction of isolated low surface brightness galaxies: observational constraints*, *MNRAS*, 500, 2049 [\[ADS\]](#)
- Reeves, A.M.M., Balogh, M.L., **van der Burg, R.F.J.**, Finoguenov, A., Kukstas, E., McCarthy, I.G., Webb, K., Muzzin, A., McGee, S., Rudnick, G., et al. , 2021, *The GOGREEN survey: dependence of galaxy properties on halo mass at  $z > 1$  and implications for environmental quenching*, *MNRAS*, 506, 3364 [\[ADS\]](#)
- Adam, C., Olofsson, J., **van Holstein, R.G.**, Bayo, A., Milli, J., Boccaletti, A., Kral, Q., Ginski, C., Henning, T., Montesinos, M., et al. , 2021, *Characterizing the morphology of the debris disk around the low-mass star GSC 07396-00759*, *A&A*, 653, A88 [\[ADS\]](#)

- Ginski, C., Mugrauer, M., Adam, C., Vogt, N. & **van Holstein, R.G.**, 2021, *How many suns are in the sky? A SPHERE multiplicity survey of exoplanet host stars. I. Four new close stellar companions including a white dwarf*, A&A, 649, A156 [\[ADS\]](#)
- Stolker, T., Haffert, S.Y., Kessell, A.Y., **van Holstein, R.G.**, Aoyama, Y., Brinchmann, J., Cugno, G., Girard, J.H., Marleau, G.-D., Meyer, M.R., et al. , 2021, *Characterizing the Protolunar Disk of the Accreting Companion GQ Lupi B*, AJ, 162, 286 [\[ADS\]](#)
- van Holstein, R.G.**, Stolker, T., Jensen-Clem, R., Ginski, C., Milli, J., de Boer, J., Girard, J.H., Wahhaj, Z., Bohn, A.J., Millar-Blanchaer, M.A., et al. , 2021, *A survey of the linear polarization of directly imaged exoplanets and brown dwarf companions with SPHERE-IRDIS. First polarimetric detections revealing disks around DH Tau B and GSC 6214-210 B*, A&A, 647, A21 [\[ADS\]](#)
- Miura, R.E., Espada, D., Hirota, A., Henkel, C., Verley, S., Kobayashi, M.I.N., Matsushita, S., Israel, F.P., **Vila-Vilaro, B.**, Morokuma-Matsui, K., et al. , 2021, *A giant molecular cloud catalogue in the molecular disc of the elliptical galaxy NGC 5128 (Centaurus A)*, MNRAS, 504, 6198 [\[ADS\]](#)
- Villenave, M.**, Ménard, F., Dent, W.R.F., Benisty, M., van der Plas, G., Williams, J.P., Ansdell, M., Ribas, Á., Cáceres, C., Canovas, H., et al. , 2021, *Probing protoplanetary disk evolution in the Chamaeleon II region*, A&A, 653, A46 [\[ADS\]](#)
- Li, C.-J., Seitzenthal, I.R., Ishioka, R., Chu, Y.-H., Ruitter, A.J. & **Vogt, F.P.A.**, 2021, *Searching for Surviving Companion in the Young SMC Supernova Remnant 1E 0102.2-7219*, ApJ, 915, 20 [\[ADS\]](#)
- Maire, A.-L., Langlois, I.R., Delorme, P., Chauvin, G., Gratton, R., Vigan, A., Girard, J.H., **Wahhaj, Z.**, Pott, J.-U., Burtcher, L., et al. , 2021, *Lessons learned from SPHERE for the astrometric strategy of the next generation of exoplanet imaging instruments*, JATIS, 7, 035004 [\[ADS\]](#)
- Mesa, D., Marino, S., Bonavita, M., Lazzoni, C., Fontanive, C., Pérez, S., D'Orazi, V., Desidera, S., Gratton, R., Engler, N., ..., **Wahhaj, Z.**, et al. , 2021, *Limits on the presence of planets in systems with debris discs: HD 92945 and HD 107146*, MNRAS, 503, 1276 [\[ADS\]](#)
- Singh, G., Bhowmik, T., Boccaletti, A., Thébault, P., Kral, Q., Milli, J., Mazoyer, J., Pantin, E., van Holstein, R.G., Olofsson, J., ..., **Wahhaj, Z.**, et al. , 2021, *Revealing asymmetrical dust distribution in the inner regions of HD 141569*, A&A, 653, A79 [\[ADS\]](#)
- Wahhaj, Z.**, Milli, J., Romero, C., Cieza, L., Zurlo, A., Vigan, A., Peña, E., Valdes, G., Cantalloube, F. & Girard, J., 2021, *A search for a fifth planet around HR 8799 using the star-hopping RDI technique at VLT/SPHERE*, A&A, 648, A26 [\[ADS\]](#)
- Tatematsu, K., Kim, G., Liu, T., Evans, N.J.I., Yi, H.-W., Lee, J.-E., Wu, Y., Hirano, N., Liu, S.-Y., Dutta, S., ..., **Wang, K.**, et al. , 2021, *Molecular Cloud Cores with High Deuterium Fractions: Nobeyama Mapping Survey*, ApJS, 256, 25 [\[ADS\]](#)
- Wang, W.**, Wylezalek, D., De Brueck, C., Vernet, J., Humphrey, A., Villar Martín, M., Lehnert, M.D. & Kolwa, S., 2021, *Mapping the "invisible" circumgalactic medium around a  $z \sim 4.5$  radio galaxy with MUSE*, A&A, 654, A88 [\[ADS\]](#)
- Read, J.I., Mamon, G.A., Vasiliev, E., **Watkins, L.L.**, Walker, M.G., Peñarrubia, J., Wilkinson, M., Dehnen, W. & Das, P., 2021, *Breaking beta: a comparison of mass modelling methods for spherical systems*, MNRAS, 501, 978 [\[ADS\]](#)
- Cannizzaro, G., **Wevers, T.**, Jonker, P.G., Pérez-Torres, M.A., Moldon, J., Mata-Sánchez, D., Leloudas, G., Pasham, D.R., Mattila, S., Arcavi, I., et al. , 2021, *Accretion disc cooling and narrow absorption lines in the tidal disruption event AT 2019dsg*, MNRAS, 504, 792 [\[ADS\]](#)
- Hodgkin, S.T., Harrison, D.L., Breed, E., **Wevers, T.**, Rixon, G., Delgado, A., Yoldas, A., Kostrzewa-Rutkowska, Z., Wyrzykowski, Ł., van Leeuwen, M., et al. , 2021, *Gaia Early Data Release 3. Gaia photometric science alerts*, A&A, 652, A76 [\[ADS\]](#)
- McBrien, O.R., Smartt, S.J., Huber, M.E., Rest, A., Chambers, K.C., Barbieri, C., Bulla, M., Jha, S., Gromadzki, M., Srivastav, S., ..., **Wevers, T.**, et al. , 2021, *PS15cey and PS17cke: prospective candidates from the Pan-STARRS Search for kilonovae*, MNRAS, 500, 4213 [\[ADS\]](#)
- Wevers, T.**, Pasham, D.R., van Velzen, S., Miller-Jones, J.C.A., Uttley, P., Gendreau, K.C., Remillard, R., Arzoumanian, Z., Löwenstein, M. & Chiti, A., 2021, *Rapid Accretion State Transitions following the Tidal Disruption Event AT2018fyk*, ApJ, 912, 151 [\[ADS\]](#)
- Whitehouse, L.J.**, Farihi, J., Howarth, I.D., Mancino, S., Walters, N., Swan, A., Wilson, T.G. & Guo, J., 2021, *Carbon-enhanced stars with short orbital and spin periods*, MNRAS, 506, 4877 [\[ADS\]](#)
- Mobeen, M.Z., Kamiński, T., Matter, A., **Wittkowski, M.** & Paladini, C., 2021, *The mid-infrared environment of the stellar merger remnant V838 Monocerotis*, A&A, 655, A100 [\[ADS\]](#)
- Gravity Collaboration, Sanchez-Bermudez, J., Caratti O Garatti, A., Garcia Lopez, R., Perraut, K., Labadie, L., Benisty, M., Brandner, W., Dougados, C., Garcia, P.J.V., ...& **Wuillez, J.**, 2021, *The GRAVITY young stellar object survey. VI. Mapping the variable inner disk of HD 163296 at sub-au scales*, A&A, 654, A97 [\[ADS\]](#)
- Mandal, A.K., Rakshit, S., Stalin, C.S., **Wylezalek, D.**, Patig, M.K., Sagar, R., Mathew, B., Muneer, S. & Pal, I., 2021, *Dust reverberation mapping of Z229-15*, MNRAS, 501, 3905 [\[ADS\]](#)
- Brož, M., Marchis, F., Jorda, L., Hanuš, J., Vernazza, P., Ferrais, M., Vachier, F., Rambaux, N., Marsset, M., Viikinkoski, M., ...& **Yang, B.**, 2021, *An advanced multipole model for (216) Kleopatra triple system*, A&A, 653, A56 [\[ADS\]](#)
- Carry, B., Vernazza, P., Vachier, F., Neveu, M., Berthier, J., Hanuš, J., Ferrais, M., Jorda, L., Marsset, M., Viikinkoski, M., ...& **Yang, B.**, 2021, *Evidence for differentiation of the most primitive small bodies*, A&A, 650, A129 [\[ADS\]](#)
- Marchis, F., Jorda, L., Vernazza, P., Brož, M., Hanuš, J., Ferrais, M., Vachier, F., Rambaux, N., Marsset, M., Viikinkoski, M., ...& **Yang, B.**, 2021, *(216) Kleopatra, a low density critically rotating M-type asteroid*, A&A, 653, A57 [\[ADS\]](#)
- Opitom, C., Jehin, E., Hutsemékers, D., Shinnaka, Y., Manfroid, J., Rousselot, P., Raghuram, S., Kawakita, H., Fitzsimmons, A., Meech, K., ..., **Yang, B.**, et al. , 2021, *The similarity of the interstellar comet 2I/Borisov to Solar System comets from high-resolution optical spectroscopy*, A&A, 650, L19 [\[ADS\]](#)
- Protopapa, S., Kelley, M.S.P., Woodward, C.E. & **Yang, B.**, 2021, *Nondetection of Water-ice Grains in the Coma of Comet 46P/Wirtanen and Implications for Hyperactivity*, PSJ, 2, 176 [\[ADS\]](#)
- Vernazza, P., Ferrais, M., Jorda, L., Hanuš, J., Carry, B., Marsset, M., Brož, M., Fetick, R., Viikinkoski, M., Marchis, F., ..., **Yang, B.**, et al. , 2021, *VLT/SPHERE imaging survey of the largest main-belt asteroids: Final results and synthesis*, A&A, 654, A56 [\[ADS\]](#)
- Yang, B.**, Jewitt, D., Zhao, Y., Jiang, X., Ye, Q. & Chen, Y.-T., 2021, *Discovery of Carbon Monoxide in Distant Comet C/2017 K2 (PANSTARRS)*, ApJL, 914, L17 [\[ADS\]](#)
- Berta, S., Young, A.J., Cox, P., Neri, R., Jones, B.M., Baker, A.J., Omont, A., Dunne, L., Carnero Rosell, A., Marchetti, L., ..., **Yang, C.**, et al. , 2021, *Close-up view of a luminous star-forming galaxy at  $z = 2.95$* , A&A, 646, A122 [\[ADS\]](#)
- Franco, M., Coppin, K.E.K., Geach, J.E., Kobayashi, C., Chapman, S.C., **Yang, C.**, González-Alfonso, E., Spilker, J.S., Cooray, A. & Michałowski, M.J., 2021, *The ramp-up of interstellar medium enrichment at  $z > 4$* , NatAs, 5, 1240 [\[ADS\]](#)

- González-Alfonso, E., Pereira-Santaella, M., Fischer, J., García-Burillo, S., **Yang, C.**, Alonso-Herrero, A., Colina, L., Ashby, M.L.N., Smith, H.A., Rico-Villas, F., et al. , 2021, *A proto-pseudobulge in ESO 320-G030 fed by a massive molecular inflow driven by a nuclear bar*, A&A, 645, A49 [\[ADS\]](#)
- Yu, X.**, Bian, F., Krumholz, M.R., Shi, Y., Li, S. & Chen, J., 2021, *The major mechanism to drive turbulence in star-forming galaxies*, MNRAS, 505, 5075 [\[ADS\]](#)
- Zanella, A.**, Zandoni, C., Arrigoni-Battaia, F., Rubin, A., Pala, A.F., Peroux, C., Augustin, R., Circosta, C., Emsellem, E., George, E., et al. , 2021, *Unveiling the faint ultraviolet Universe*, ExA, 51, 913 [\[ADS\]](#)
- Zhao, F.**, Lo Curto, G., Pasquini, L., González Hernández, J.I., De Medeiros, J.R., Canto Martins, B.L., Leão, I.C., Rebolo, R., Suárez Mascareño, A., Esposito, M., et al. , 2021, *Measuring and characterizing the line profile of HARPS with a laser frequency comb*, A&A, 645, A23 [\[ADS\]](#)
- Armstrong, P., Tucker, B.E., Rest, A., Ridden-Harper, R., Zenati, Y., Piro, A.L., Hinton, S., Lidman, C., Margheim, S., Narayan, G., ...& **Zsidi, G.**, 2021, *SN2017jgh: a high-cadence complete shock cooling light curve of a SN IIb with the Kepler telescope*, MNRAS, 507, 3125 [\[ADS\]](#)
- Busekool, E., Verheijen, M.A.W., van der Hulst, J.M., Tully, R.B., Trentham, N. & **Zwaan, M.A.**, 2021, *The Ursa Major association of galaxies - VI: a relative dearth of gas-rich dwarf galaxies*, MNRAS, 501, 2608 [\[ADS\]](#)
- Chen, Q., Meyer, M., Popping, A., Staveley-Smith, L., Bryant, J., Delhaize, J., Holwerda, B.W., Cluver, M.E., Loveday, J., Lopez-Sanchez, A.R., **Zwaan, M.**, et al. , 2021, *Measuring cosmic density of neutral hydrogen via stacking the DINGO-VLA data*, MNRAS, 508, 2758 [\[ADS\]](#)
- Levy, R.C., Bolatto, A.D., Leroy, A.K., Emig, K.L., Gorski, M., Krieger, N., Lenkić, L., Meier, D.S., Mills, E.A.C., Ott, J., ...& **Zwaan, M.A.**, 2021, *Outflows from Super Star Clusters in the Central Starburst of NGC 253*, ApJ, 912, 4 [\[ADS\]](#)