



Universiteit
Leiden
The Netherlands

Isotopes and the characterization of extrasolar planets

Zhang, Y.

Citation

Zhang, Y. (2023, June 6). *Isotopes and the characterization of extrasolar planets*. Retrieved from <https://hdl.handle.net/1887/3619726>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/3619726>

Note: To cite this publication please use the final published version (if applicable).

Bibliography

- Acharyya, K., Fuchs, G. W., Fraser, H. J., van Dishoeck, E. F., & Linnartz, H. 2007, *A&A*, 466, 1005
- Ackerman, A. S. & Marley, M. S. 2001, *ApJ*, 556, 872
- Ahlers, J. P., Kruse, E., Colón, K. D., et al. 2020, *ApJ*, 888, 63
- Akeson, R. L., Jensen, E. L. N., Carpenter, J., et al. 2019, *ApJ*, 872, 158
- Akiyama, E., Vorobyov, E. I., Liu, H. B., et al. 2019, *AJ*, 157, 165
- Allan, A. & Vidotto, A. A. 2019, *MNRAS*, 490, 3760
- Allart, R., Bourrier, V., Lovis, C., et al. 2019, *A&A*, 623, A58
- Allart, R., Bourrier, V., Lovis, C., et al. 2018, *Science*, 362, 1384
- Allart, R., Lovis, C., Pino, L., et al. 2017, *A&A*, 606, A144
- Aller, K. M., Liu, M. C., Magnier, E. A., et al. 2016, *ApJ*, 821, 120
- Alonso-Floriano, F. J., Snellen, I. A. G., Czesla, S., et al. 2019, *A&A*, 629, A110
- Altwegg, K., Balsiger, H., Bar-Nun, A., et al. 2015, *Science*, 347, 1261952
- Alves de Oliveira, C., Schneider, N., Merín, B., et al. 2014, *A&A*, 568, A98
- Anderson, D. R., Temple, L. Y., Nielsen, L. D., et al. 2018, arXiv e-prints, arXiv:1809.04897
- Andretta, V., Giampapa, M. S., Covino, E., Reiners, A., & Beeck, B. 2017, *ApJ*, 839, 97
- Andrews, S. M., Huang, J., Pérez, L. M., et al. 2018, *ApJ*, 869, L41
- Anglada-Escudé, G., Amado, P. J., Barnes, J., et al. 2016, *Nature*, 536, 437
- Arcangeli, J., Désert, J.-M., Line, M. R., et al. 2018, *ApJ*, 855, L30
- Ardila, D. R., Golimowski, D. A., Krist, J. E., et al. 2007, *ApJ*, 665, 512
- Artymowicz, P. & Lubow, S. H. 1994, *ApJ*, 421, 651
- Asensio-Torres, R., Janson, M., Bonavita, M., et al. 2018, *A&A*, 619, A43
- Avenhaus, H., Quanz, S. P., Garufi, A., et al. 2018, *ApJ*, 863, 44

- Bae, J., Isella, A., Zhu, Z., et al. 2022, arXiv e-prints, arXiv:2210.13314
- Bae, J., Pinilla, P., & Birnstiel, T. 2018, *ApJ*, 864, L26
- Baehr, H., Zhu, Z., & Yang, C.-C. 2022, *ApJ*, 933, 100
- Bally, J. & Langer, W. D. 1982, *ApJ*, 255, 143
- Baraffe, I., Chabrier, G., Barman, T. S., Allard, F., & Hauschildt, P. H. 2003, *A&A*, 402, 701
- Baraffe, I., Homeier, D., Allard, F., & Chabrier, G. 2015, *A&A*, 577, A42
- Baranne, A., Queloz, D., Mayor, M., et al. 1996, *A&AS*, 119, 373
- Barman, T. S., Macintosh, B., Konopacky, Q. M., & Marois, C. 2011, *ApJ*, 733, 65
- Batygin, K., Morbidelli, A., & Tsiganis, K. 2011, *A&A*, 533, A7
- Bello-Arufe, A., Cabot, S. H. C., Mendonça, J. M., Buchhave, L. A., & Rathcke, A. D. 2022, *AJ*, 163, 96
- Ben-Yami, M., Madhusudhan, N., Cabot, S. H. C., et al. 2020, *ApJ*, 897, L5
- Benisty, M., Dominik, C., Follette, K., et al. 2022, arXiv e-prints, arXiv:2203.09991
- Benisty, M., Stolker, T., Pohl, A., et al. 2017, *A&A*, 597, A42
- Benneke, B. & Seager, S. 2013, *ApJ*, 778, 153
- Beust, H., Bonnefoy, M., Maire, A. L., et al. 2016, *A&A*, 587, A89
- Beuzit, J. L., Vigan, A., Mouillet, D., et al. 2019, *A&A*, 631, A155
- Birkby, J. L., de Kok, R. J., Brogi, M., et al. 2013, *MNRAS*, 436, L35
- Birkby, J. L., de Kok, R. J., Brogi, M., Schwarz, H., & Snellen, I. A. G. 2017, *AJ*, 153, 138
- Blake, C. H., Charbonneau, D., & White, R. J. 2010, *ApJ*, 723, 684
- Blunt, S., Nielsen, E. L., De Rosa, R. J., et al. 2017, *AJ*, 153, 229
- Blunt, S., Wang, J. J., Angelo, I., et al. 2020, *AJ*, 159, 89
- Bohn, A. J., Ginski, C., Kenworthy, M. A., et al. 2021, *A&A*, 648, A73
- Bohn, A. J., Southworth, J., Ginski, C., et al. 2020, *A&A*, 635, A73
- Bonavita, M. & Desidera, S. 2007, *A&A*, 468, 721
- Bonavita, M. & Desidera, S. 2020, *Galaxies*, 8, 16
- Bonnet, H., Abuter, R., Baker, A., et al. 2004, *The Messenger*, 117, 17
- Boogert, A. C. A., Blake, G. A., & Tielens, A. G. G. M. 2002, *ApJ*, 577, 271

-
- Boogert, A. C. A., Tielens, A. G. G. M., Ceccarelli, C., et al. 2000, *A&A*, 360, 683
- Booth, A. S., Walsh, C., Kama, M., et al. 2018, *A&A*, 611, A16
- Borsa, F., Allart, R., Casasayas-Barris, N., et al. 2021, *A&A*, 645, A24
- Borsa, F., Rainer, M., Bonomo, A. S., et al. 2019, *A&A*, 631, A34
- Borsa, F., Scandariato, G., Rainer, M., et al. 2015, *A&A*, 578, A64
- Borucki, W. J., Koch, D., Basri, G., et al. 2010, *Science*, 327, 977
- Boss, A. P. 1997, *Science*, 276, 1836
- Botelho, R. B., Milone, A. d. C., Meléndez, J., et al. 2020, *MNRAS*, 499, 2196
- Bourrier, V., Lecavelier des Etangs, A., Ehrenreich, D., et al. 2018, *A&A*, 620, A147
- Bourrier, V., Lecavelier des Etangs, A., & Vidal-Madjar, A. 2014, *A&A*, 565, A105
- Bowler, B. P., Blunt, S. C., & Nielsen, E. L. 2020, *AJ*, 159, 63
- Bowler, B. P., Liu, M. C., Shkolnik, E. L., & Dupuy, T. J. 2013, *ApJ*, 774, 55
- Brinch, C., Jørgensen, J. K., Hogerheijde, M. R., Nelson, R. P., & Gressel, O. 2016, *ApJ*, 830, L16
- Brogi, M., de Kok, R. J., Albrecht, S., et al. 2016, *ApJ*, 817, 106
- Brogi, M., de Kok, R. J., Birkby, J. L., Schwarz, H., & Snellen, I. A. G. 2014, *A&A*, 565, A124
- Brogi, M. & Line, M. R. 2019, *AJ*, 157, 114
- Brogi, M., Snellen, I. A. G., de Kok, R. J., et al. 2012, *Nature*, 486, 502
- Bryan, M. L., Benneke, B., Knutson, H. A., Batygin, K., & Bowler, B. P. 2018, *Nature Astronomy*, 2, 138
- Buchner, J., Georgakakis, A., Nandra, K., et al. 2014, *A&A*, 564, A125
- Burningham, B., Faherty, J. K., Gonzales, E. C., et al. 2021, *MNRAS*, 506, 1944
- Burningham, B., Marley, M. S., Line, M. R., et al. 2017, *MNRAS*, 470, 1177
- Butler, R. P., Marcy, G. W., Williams, E., Hauser, H., & Shirts, P. 1997, *ApJ*, 474, L115
- Caballero, J. A., Guàrdia, J., López del Fresno, M., et al. 2016, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 9910, Proc. SPIE, 99100E
- Cabot, S. H. C., Bello-Arufe, A., Mendonça, J. M., et al. 2021, *AJ*, 162, 218
- Cabot, S. H. C., Madhusudhan, N., Welbanks, L., Piette, A., & Gandhi, S. 2020, *MNRAS*, 494, 363

- Carbillet, M., Bendjoya, P., Abe, L., et al. 2011, *Experimental Astronomy*, 30, 39
- Casasayas-Barris, N., Orell-Miquel, J., Stangret, M., et al. 2021, *A&A*, 654, A163
- Casasayas-Barris, N., Pallé, E., Yan, F., et al. 2019, *A&A*, 628, A9
- Casasayas-Barris, N., Pallé, E., Yan, F., et al. 2020, *A&A*, 640, C6
- Cauley, P. W., Kuckein, C., Redfield, S., et al. 2018, *AJ*, 156, 189
- Cauley, P. W., Shkolnik, E. L., Ilyin, I., et al. 2019, *AJ*, 157, 69
- Cazzoletti, P., Manara, C. F., Liu, H. B., et al. 2019, *A&A*, 626, A11
- Cegla, H. M., Lovis, C., Bourrier, V., et al. 2016, *A&A*, 588, A127
- Chabrier, G. 2003, *PASP*, 115, 763
- Charbonneau, D., Brown, T. M., Latham, D. W., & Mayor, M. 2000, *ApJ*, 529, L45
- Charbonneau, D., Brown, T. M., Noyes, R. W., & Gilliland, R. L. 2002, *ApJ*, 568, 377
- Chauvin, G., Lagrange, A. M., Bonavita, M., et al. 2010, *A&A*, 509, A52
- Chauvin, G., Lagrange, A. M., Dumas, C., et al. 2004, *A&A*, 425, L29
- Chauvin, G., Lagrange, A. M., Zuckerman, B., et al. 2005, *A&A*, 438, L29
- Chelli, A., Zinnecker, H., Carrasco, L., Cruz-Gonzalez, I., & Perrier, C. 1988, *A&A*, 207, 46
- Clarke, C. J. & Pringle, J. E. 1993, *MNRAS*, 261, 190
- Clayton, D. D. & Nittler, L. R. 2004, *ARA&A*, 42, 39
- Cornwell, T. J. 2008, *IEEE Journal of Selected Topics in Signal Processing*, 2, 793
- Correia, S., Zinnecker, H., Ratzka, T., & Sterzik, M. F. 2006, *A&A*, 459, 909
- Cox, E. G., Harris, R. J., Looney, L. W., et al. 2017, *ApJ*, 851, 83
- Cridland, A. J., Bosman, A. D., & van Dishoeck, E. F. 2020, *A&A*, 635, A68
- Crossfield, I. J. M., Barman, T., Hansen, B., & Frewen, S. 2019a, *Research Notes of the American Astronomical Society*, 3, 24
- Crossfield, I. J. M., Lothringer, J. D., Flores, B., et al. 2019b, *ApJ*, 871, L3
- Cruz, K. L., Kirkpatrick, J. D., & Burgasser, A. J. 2009, *AJ*, 137, 3345
- Cutri, R. M., Skrutskie, M. F., van Dyk, S., et al. 2003, *VizieR Online Data Catalog*, II/246
- Daemgen, S., Petr-Gotzens, M. G., Correia, S., et al. 2013, *A&A*, 554, A43
- Danby, J. M. A. 1987, *Celestial Mechanics*, 40, 303

-
- de Boer, J., Ginski, C., Chauvin, G., et al. 2021, *A&A*, 649, A25
- de Boer, J., Langlois, M., van Holstein, R. G., et al. 2020, *A&A*, 633, A63
- de Boer, J., Salter, G., Benisty, M., et al. 2016, *A&A*, 595, A114
- de Kok, R. J., Brogi, M., Snellen, I. A. G., et al. 2013, *A&A*, 554, A82
- Deline, A., Hooton, M. J., Lendl, M., et al. 2022, *A&A*, 659, A74
- Delisle, J. B., Ségransan, D., Buchschacher, N., & Alesina, F. 2016, *A&A*, 590, A134
- Delrez, L., Santerne, A., Almenara, J. M., et al. 2016, *MNRAS*, 458, 4025
- Deming, D., Wilkins, A., McCullough, P., et al. 2013, *ApJ*, 774, 95
- Desidera, S. & Barbieri, M. 2007, *A&A*, 462, 345
- Devillard, N. 1999, in *Astronomical Society of the Pacific Conference Series*, Vol. 172, *Astronomical Data Analysis Software and Systems VIII*, ed. D. M. Mehringer, R. L. Plante, & D. A. Roberts, 333
- Díaz, R. F., Almenara, J. M., Santerne, A., et al. 2014, *MNRAS*, 441, 983
- Díaz, R. F., Ségransan, D., Udry, S., et al. 2016, *A&A*, 585, A134
- Dohlen, K., Langlois, M., Saisse, M., et al. 2008, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 7014, *Ground-based and Airborne Instrumentation for Astronomy II*, ed. I. S. McLean & M. M. Casali, 70143L
- Dong, R., Fung, J., & Chiang, E. 2016, *ApJ*, 826, 75
- Dong, R., Liu, H. B., Cuello, N., et al. 2022, *Nature Astronomy*, 6, 331
- Dorval, P., Talens, G. J. J., Otten, G. P. P. L., et al. 2020, *A&A*, 635, A60
- Dos Santos, L. A., Vidotto, A. A., Vissapragada, S., et al. 2022, *A&A*, 659, A62
- Drake, M. J. 2005, *Meteoritics and Planetary Science*, 40, 519
- Drazkowska, J., Bitsch, B., Lambrechts, M., et al. 2022, *arXiv e-prints*, arXiv:2203.09759
- Dullemond, C. P., Küffmeier, M., Goicovic, F., et al. 2019, *A&A*, 628, A20
- Duquennoy, A. & Mayor, M. 1991, *A&A*, 248, 485
- Dwivedi, N. K., Khodachenko, M. L., Shaikhislamov, I. F., et al. 2019, *MNRAS*, 487, 4208
- Dzib, S. A., Loinard, L., Ortiz-León, G. N., Rodríguez, L. F., & Galli, P. A. B. 2018, *ApJ*, 867, 151
- Engenberger, A., Udry, S., Chauvin, G., et al. 2007, *A&A*, 474, 273
- Ehrenreich, D., Bourrier, V., Wheatley, P. J., et al. 2015, *Nature*, 522, 459

- Ehrenreich, D., Lovis, C., Allart, R., et al. 2020, *Nature*, 580, 597
- Eisenhauer, F., Abuter, R., Bickert, K., et al. 2003, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 4841, *Instrument Design and Performance for Optical/Infrared Ground-based Telescopes*, ed. M. Iye & A. F. M. Moorwood, 1548–1561
- Erkaev, N. V., Kulikov, Y. N., Lammer, H., et al. 2007, *A&A*, 472, 329
- Evans, T. M., Sing, D. K., Wakeford, H. R., et al. 2016, *ApJ*, 822, L4
- Faherty, J. K., Rice, E. L., Cruz, K. L., Mamajek, E. E., & Núñez, A. 2013, *AJ*, 145, 2
- Faherty, J. K., Riedel, A. R., Cruz, K. L., et al. 2016, *ApJS*, 225, 10
- Faria, J. P., Suárez Mascareño, A., Figueira, P., et al. 2022, *A&A*, 658, A115
- Federman, S. R., Lambert, D. L., Sheffer, Y., et al. 2003, *ApJ*, 591, 986
- Fernández-López, M., Zapata, L. A., & Gabbasov, R. 2017, *ApJ*, 845, 10
- Feroz, F., Hobson, M. P., & Bridges, M. 2009, *MNRAS*, 398, 1601
- Feuchtgruber, H., Lellouch, E., Orton, G., et al. 2013, *A&A*, 551, A126
- Follert, R., Dorn, R. J., Oliva, E., et al. 2014, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 9147, *Proc. SPIE*, 914719
- Fontanive, C., Rice, K., Bonavita, M., et al. 2019, *MNRAS*, 485, 4967
- Foreman-Mackey, D., Agol, E., Ambikasaran, S., & Angus, R. 2017, *AJ*, 154, 220
- Fossati, L., Koskinen, T., Lothringer, J. D., et al. 2018, *ApJ*, 868, L30
- Foucart, F. & Lai, D. 2014, *MNRAS*, 445, 1731
- Francis, L. & van der Marel, N. 2020, *ApJ*, 892, 111
- Fung, J. & Dong, R. 2015, *ApJ*, 815, L21
- Gahm, G. F., Petrov, P. P., Tambovsteva, L. V., et al. 2018, *A&A*, 614, A117
- Gahm, G. F., Walter, F. M., Stempels, H. C., Petrov, P. P., & Herczeg, G. J. 2008, *A&A*, 482, L35
- Gaia Collaboration, Brown, A. G. A., Vallenari, A., et al. 2018, *A&A*, 616, A1
- Gaia Collaboration, Vallenari, A., Brown, A. G. A., et al. 2022, *arXiv e-prints*, arXiv:2208.00211
- Gaidos, E., Hirano, T., Mann, A. W., et al. 2020, *MNRAS*, 495, 650
- Gandhi, S., Madhusudhan, N., Hawker, G., & Piette, A. 2019, *AJ*, 158, 228

-
- Gao, P., Thorngren, D. P., Lee, G. K. H., et al. 2020, *Nature Astronomy*, 4, 951
- García Muñoz, A. & Schneider, P. C. 2019, *ApJ*, 884, L43
- Garufi, A., Podio, L., Codella, C., et al. 2022, *A&A*, 658, A104
- Gaudi, B. S., Stassun, K. G., Collins, K. A., et al. 2017, *Nature*, 546, 514
- Gebek, A. & Oza, A. V. 2020, *MNRAS*, 497, 5271
- Ghez, A. M., White, R. J., & Simon, M. 1997, *ApJ*, 490, 353
- Giacobbe, P., Brogi, M., Gandhi, S., et al. 2021, *Nature*, 592, 205
- Gibson, N. P., Merritt, S., Nugroho, S. K., et al. 2020, *MNRAS*, 493, 2215
- Gillon, M., Triaud, A. H. M. J., Demory, B.-O., et al. 2017, *Nature*, 542, 456
- Ginski, C., Facchini, S., Huang, J., et al. 2021a, *ApJ*, 908, L25
- Ginski, C., Ménard, F., Rab, C., et al. 2020, *A&A*, 642, A119
- Ginski, C., Mugrauer, M., Adam, C., Vogt, N., & van Holstein, R. G. 2021b, *A&A*, 649, A156
- Ginski, C., Mugrauer, M., Seeliger, M., et al. 2016, *MNRAS*, 457, 2173
- Ginski, C., Mugrauer, M., Seeliger, M., & Eisenbeiss, T. 2012, *MNRAS*, 421, 2498
- Ginski, C., Schmidt, T. O. B., Mugrauer, M., et al. 2014, *MNRAS*, 444, 2280
- Gomez Gonzalez, C. A., Wertz, O., Absil, O., et al. 2017, *AJ*, 154, 7
- Goto, M., Usuda, T., Takato, N., et al. 2003, *ApJ*, 598, 1038
- Grady, C. A., Woodgate, B., Bruhweiler, F. C., et al. 1999, *ApJ*, 523, L151
- GRAVITY Collaboration, Garcia Lopez, R., Perraut, K., et al. 2017, *A&A*, 608, A78
- GRAVITY Collaboration, Nowak, M., Lacour, S., et al. 2020, *A&A*, 633, A110
- Gray, D. F. 2005, *The Observation and Analysis of Stellar Photospheres*
- Guillot, T. & Hueso, R. 2006, *MNRAS*, 367, L47
- Guilluy, G., Andretta, V., Borsa, F., et al. 2020, *arXiv e-prints*, arXiv:2005.05676
- Haffert, S. Y., Bohn, A. J., de Boer, J., et al. 2019, *Nature Astronomy*, 3, 749
- Hale, A. 1994, *AJ*, 107, 306
- Hara, N. C., Boué, G., Laskar, J., Delisle, J. B., & Unger, N. 2019, *MNRAS*, 489, 738
- Hashimoto, J., Dong, R., Kudo, T., et al. 2012, *ApJ*, 758, L19
- Hirano, T., Krishnamurthy, V., Gaidos, E., et al. 2020, *arXiv e-prints*, arXiv:2006.13243

- Hoeijmakers, H. J., Cabot, S. H. C., Zhao, L., et al. 2020a, *A&A*, 641, A120
- Hoeijmakers, H. J., Ehrenreich, D., Heng, K., et al. 2018, *Nature*, 560, 453
- Hoeijmakers, H. J., Ehrenreich, D., Kitzmann, D., et al. 2019, *A&A*, 627, A165
- Hoeijmakers, H. J., Seidel, J. V., Pino, L., et al. 2020b, *A&A*, 641, A123
- Horch, E. P., Howell, S. B., Everett, M. E., & Ciardi, D. R. 2014, *ApJ*, 795, 60
- Horne, K. 1986, *PASP*, 98, 609
- Huang, C., Arras, P., Christie, D., & Li, Z.-Y. 2017, *ApJ*, 851, 150
- Huensch, M., Schmitt, J. H. M. M., & Voges, W. 1998, *A&AS*, 132, 155
- Huitson, C. M., Sing, D. K., Vidal-Madjar, A., et al. 2012, *MNRAS*, 422, 2477
- Husser, T. O., Wende-von Berg, S., Dreizler, S., et al. 2013, *A&A*, 553, A6
- Janson, M., Gratton, R., Rodet, L., et al. 2021, *Nature*, 600, 231
- Jensen, E. 2020, in *Five Years After HL Tau: A New Era in Planet Formation (HLTAU2020)*, 40
- Jensen, E. L. N. & Akeson, R. 2014, *Nature*, 511, 567
- Johansen, A. & Youdin, A. 2007, *ApJ*, 662, 627
- Jones, A., Noll, S., Kausch, W., Szyszka, C., & Kimeswenger, S. 2013, *A&A*, 560, A91
- Jørgensen, J. K., Müller, H. S. P., Calcutt, H., et al. 2018, *A&A*, 620, A170
- Jørgensen, J. K., van der Wiel, M. H. D., Coutens, A., et al. 2016, *A&A*, 595, A117
- Justesen, A. B. & Albrecht, S. 2019, *A&A*, 625, A59
- Justesen, A. B. & Albrecht, S. 2020, *A&A*, 642, A212
- Kaib, N. A., Raymond, S. N., & Duncan, M. 2013, *Nature*, 493, 381
- Kaltenegger, L. 2017, *ARA&A*, 55, 433
- Kammerer, J., Lacour, S., Stolker, T., et al. 2021, *A&A*, 652, A57
- Kepley, A. A., Tsutsumi, T., Brogan, C. L., et al. 2020, *PASP*, 132, 024505
- Keppler, M., Benisty, M., Müller, A., et al. 2018, *A&A*, 617, A44
- Keppler, M., Penzlin, A., Benisty, M., et al. 2020, *A&A*, 639, A62
- Kesseli, A. Y. & Snellen, I. A. G. 2021, *ApJ*, 908, L17
- Kesseli, A. Y., Snellen, I. A. G., Casasayas-Barris, N., Mollière, P., & Sánchez-López, A. 2022, *AJ*, 163, 107

-
- Kirk, J., Alam, M. K., López-Morales, M., & Zeng, L. 2020, *AJ*, 159, 115
- Kitzmann, D., Heng, K., Rimmer, P. B., et al. 2018, *ApJ*, 863, 183
- Kitzmann, D., Hoeijmakers, J. H., Grimm, S. L., et al. 2021, arXiv e-prints, arXiv:2112.11380
- Knutson, H. A., Charbonneau, D., Allen, L. E., Burrows, A., & Megeath, S. T. 2008, *ApJ*, 673, 526
- Knutson, H. A., Charbonneau, D., Allen, L. E., et al. 2007, *Nature*, 447, 183
- Konopacky, Q. M., Barman, T. S., Macintosh, B. A., & Marois, C. 2013, *Science*, 339, 1398
- Koskinen, T. T., Harris, M. J., Yelle, R. V., & Lavvas, P. 2013, *Icarus*, 226, 1678
- Kratter, K. & Lodato, G. 2016, *ARA&A*, 54, 271
- Kraus, A. L., Ireland, M. J., Cieza, L. A., et al. 2014, *ApJ*, 781, 20
- Kraus, A. L., Ireland, M. J., Huber, D., Mann, A. W., & Dupuy, T. J. 2016, *AJ*, 152, 8
- Kraus, S., Kreplin, A., Young, A. K., et al. 2020, *Science*, 369, 1233
- Kreidberg, L., Bean, J. L., Désert, J.-M., et al. 2014a, *Nature*, 505, 69
- Kreidberg, L., Bean, J. L., Désert, J.-M., et al. 2014b, *ApJ*, 793, L27
- Kreidberg, L. & Oklopčić, A. 2018, *Research Notes of the American Astronomical Society*, 2, 44
- Krijt, S., Bosman, A. D., Zhang, K., et al. 2020, *ApJ*, 899, 134
- Kroupa, P. 2001, *MNRAS*, 322, 231
- Kulow, J. R., France, K., Linsky, J., & Loyd, R. O. P. 2014, *ApJ*, 786, 132
- Lafrenière, D., Jayawardhana, R., Brandeker, A., Ahmic, M., & van Kerkwijk, M. H. 2008, *ApJ*, 683, 844
- Lagrange, A. M., Gratadour, D., Chauvin, G., et al. 2009, *A&A*, 493, L21
- Lambert, D. L., Sheffer, Y., Gilliland, R. L., & Federman, S. R. 1994, *ApJ*, 420, 756
- Lambrechts, M. & Johansen, A. 2012, *A&A*, 544, A32
- Lampón, M., López-Puertas, M., Czesla, S., et al. 2021, *A&A*, 648, L7
- Lampón, M., López-Puertas, M., Lara, L. M., et al. 2020, *A&A*, 636, A13
- Landman, R., Sánchez-López, A., Mollière, P., et al. 2021, *A&A*, 656, A119
- Langer, W. D., Graedel, T. E., Frerking, M. A., & Armentrout, P. B. 1984, *ApJ*, 277, 581
- Langer, W. D. & Penzias, A. A. 1993, *ApJ*, 408, 539

- Langlois, M., Dohlen, K., Vigan, A., et al. 2014, in Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, Vol. 9147, Ground-based and Airborne Instrumentation for Astronomy V, ed. S. K. Ramsay, I. S. McLean, & H. Takami, 91471R
- Launhardt, R., Henning, T., Quirrenbach, A., et al. 2020, *A&A*, 635, A162
- Lendl, M., Anderson, D. R., Bonfanti, A., et al. 2019, *MNRAS*, 482, 301
- Lendl, M., Anderson, D. R., Collier-Cameron, A., et al. 2012, *A&A*, 544, A72
- Lendl, M., Bouchy, F., Gill, S., et al. 2020, *MNRAS*, 492, 1761
- Lendl, M., Gillon, M., Queloz, D., et al. 2013, *A&A*, 552, A2
- Lenzen, R., Hartung, M., Brandner, W., et al. 2003, in Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, Vol. 4841, Instrument Design and Performance for Optical/Infrared Ground-based Telescopes, ed. M. Iye & A. F. M. Moorwood, 944–952
- Lin, D. N. C., Bodenheimer, P., & Richardson, D. C. 1996, *Nature*, 380, 606
- Lin, D. N. C. & Papaloizou, J. 1986, *ApJ*, 309, 846
- Line, M. R., Brogi, M., Bean, J. L., et al. 2021, *Nature*, 598, 580
- Line, M. R., Wolf, A. S., Zhang, X., et al. 2013, *ApJ*, 775, 137
- Liu, H. B., Takami, M., Kudo, T., et al. 2016, *Science Advances*, 2, e1500875
- Liu, M. C., Dupuy, T. J., & Allers, K. N. 2013, *Astronomische Nachrichten*, 334, 85
- Lockwood, A. C., Johnson, J. A., Bender, C. F., et al. 2014, *ApJ*, 783, L29
- Lodato, G., Dipierro, G., Ragusa, E., et al. 2019, *MNRAS*, 486, 453
- Long, F., Herczeg, G. J., Pascucci, I., et al. 2018, *ApJ*, 863, 61
- Lothringer, J. D., Barman, T., & Koskinen, T. 2018, *ApJ*, 866, 27
- Louden, T. & Wheatley, P. J. 2015, *ApJ*, 814, L24
- Lubow, S. H. & Ogilvie, G. I. 2000, *ApJ*, 538, 326
- Luhman, K. L. 2007, *ApJS*, 173, 104
- Lyons, J. R., Gharib-Nezhad, E., & Ayres, T. R. 2018, *Nature Communications*, 9, 908
- Macintosh, B., Graham, J. R., Barman, T., et al. 2015, *Science*, 350, 64
- Macintosh, B., Graham, J. R., Ingraham, P., et al. 2014, *Proceedings of the National Academy of Science*, 111, 12661
- Madhusudhan, N. 2018, in *Handbook of Exoplanets*, ed. H. J. Deeg & J. A. Belmonte, 104
- Madhusudhan, N. 2019, *ARA&A*, 57, 617

-
- Madhusudhan, N., Amin, M. A., & Kennedy, G. M. 2014, *ApJ*, 794, L12
- Madhusudhan, N., Harrington, J., Stevenson, K. B., et al. 2011, *Nature*, 469, 64
- Maire, A.-L., Langlois, M., Dohlen, K., et al. 2016, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 9908, *Ground-based and Airborne Instrumentation for Astronomy VI*, ed. C. J. Evans, L. Simard, & H. Takami, 990834
- Manara, C. F., Tazzari, M., Long, F., et al. 2019, *A&A*, 628, A95
- Manara, C. F., Testi, L., Herczeg, G. J., et al. 2017, *A&A*, 604, A127
- Mansfield, M., Bean, J. L., Oklopčić, A., et al. 2018, *ApJ*, 868, L34
- Marconi, A., Di Marcantonio, P., D’Odorico, V., et al. 2016, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 9908, *Proc. SPIE*, 990823
- Marino, S., Perez, S., & Casassus, S. 2015, *ApJ*, 798, L44
- Marois, C., Lafrenière, D., Doyon, R., Macintosh, B., & Nadeau, D. 2006, *ApJ*, 641, 556
- Marois, C., Zuckerman, B., Konopacky, Q. M., Macintosh, B., & Barman, T. 2010, *Nature*, 468, 1080
- Martin, D. V. 2018, in *Handbook of Exoplanets*, ed. H. J. Deeg & J. A. Belmonte, 156
- Mawet, D., Milli, J., Wahhaj, Z., et al. 2014, *ApJ*, 792, 97
- Mawet, D., Pueyo, L., Lawson, P., et al. 2012, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 8442, *Space Telescopes and Instrumentation 2012: Optical, Infrared, and Millimeter Wave*, ed. M. C. Clampin, G. G. Fazio, H. A. MacEwen, & J. Oschmann, Jacobus M., 844204
- Mawet, D., Wizinowich, P., Dekany, R., et al. 2016, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 9909, *Adaptive Optics Systems V*, ed. E. Marchetti, L. M. Close, & J.-P. Véran, 99090D
- Mayor, M. & Queloz, D. 1995, *Nature*, 378, 355
- McDonald, I., Zijlstra, A. A., & Boyer, M. L. 2012, *MNRAS*, 427, 343
- McLaughlin, D. B. 1924, *ApJ*, 60, 22
- McLean, I. S., Becklin, E. E., Bendiksen, O., et al. 1998, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 3354, *Infrared Astronomical Instrumentation*, ed. A. M. Fowler, 566–578
- Meadows, V. S., Reinhard, C. T., Arney, G. N., et al. 2018, *Astrobiology*, 18, 630
- Ménard, F., Cuello, N., Ginski, C., et al. 2020, *A&A*, 639, L1
- Merritt, S. R., Gibson, N. P., Nugroho, S. K., et al. 2021, *MNRAS*, 506, 3853

- Mesa, D., Ginski, C., Gratton, R., et al. 2022, *A&A*, 658, A63
- Milam, S. N., Savage, C., Brewster, M. A., Ziurys, L. M., & Wyckoff, S. 2005, *ApJ*, 634, 1126
- Miles, B. E., Biller, B. A., Patapis, P., et al. 2022, arXiv e-prints, arXiv:2209.00620
- Miotello, A., Bruderer, S., & van Dishoeck, E. F. 2014, *A&A*, 572, A96
- Moe, M. & Kratter, K. M. 2021, *MNRAS*, 507, 3593
- Mollière, P. & Snellen, I. A. G. 2019, *A&A*, 622, A139
- Mollière, P., Stolker, T., Lacour, S., et al. 2020, *A&A*, 640, A131
- Mollière, P., van Boekel, R., Bouwman, J., et al. 2017, *A&A*, 600, A10
- Mollière, P., Wardenier, J. P., van Boekel, R., et al. 2019, *A&A*, 627, A67
- Morbidelli, A., Levison, H. F., Tsiganis, K., & Gomes, R. 2005, *Nature*, 435, 462
- Mordasini, C., van Boekel, R., Mollière, P., Henning, T., & Benneke, B. 2016, *ApJ*, 832, 41
- Morley, C. V., Fortney, J. J., Marley, M. S., et al. 2012, *ApJ*, 756, 172
- Morley, C. V., Skemer, A. J., Miles, B. E., et al. 2019, *ApJ*, 882, L29
- Moutou, C., Vigan, A., Mesa, D., et al. 2017, *A&A*, 602, A87
- Mugrauer, M. & Ginski, C. 2015, *MNRAS*, 450, 3127
- Mugrauer, M. & Michel, K.-U. 2020, *Astronomische Nachrichten*, 341, 996
- Murray-Clay, R. A., Chiang, E. I., & Murray, N. 2009, *ApJ*, 693, 23
- Muzerolle, J., Hartmann, L., & Calvet, N. 1998, *AJ*, 116, 2965
- Neuhäuser, R., Guenther, E. W., Wuchterl, G., et al. 2005, *A&A*, 435, L13
- Ngo, H., Knutson, H. A., Bryan, M. L., et al. 2017, *AJ*, 153, 242
- Ngo, H., Knutson, H. A., Hinkley, S., et al. 2016, *ApJ*, 827, 8
- Ngo, H., Knutson, H. A., Hinkley, S., et al. 2015, *ApJ*, 800, 138
- Nielsen, E. L., De Rosa, R. J., Macintosh, B., et al. 2019, *AJ*, 158, 13
- Nielsen, L. D. 2021, PhD thesis, iD: unige:155470
- Ninan, J. P., Stefansson, G., Mahadevan, S., et al. 2020, *ApJ*, 894, 97
- Noll, S., Kausch, W., Barden, M., et al. 2012, *A&A*, 543, A92
- Nortmann, L., Pallé, E., Salz, M., et al. 2018, *Science*, 362, 1388
- Nugroho, S. K., Gibson, N. P., de Mooij, E. J. W., et al. 2020, *MNRAS*, 496, 504

-
- Nugroho, S. K., Kawahara, H., Gibson, N. P., et al. 2021, *ApJ*, 910, L9
- Öberg, K. I., Murray-Clay, R., & Bergin, E. A. 2011, *ApJ*, 743, L16
- Oklopčić, A. 2019, *ApJ*, 881, 133
- Oklopčić, A. & Hirata, C. M. 2018, *ApJ*, 855, L11
- Owen, J. E. 2019, *Annual Review of Earth and Planetary Sciences*, 47, 67
- Palle, E., Nortmann, L., Casasayas-Barris, N., et al. 2020, *A&A*, 638, A61
- Papaloizou, J. & Pringle, J. E. 1977, *MNRAS*, 181, 441
- Parmentier, V., Line, M. R., Bean, J. L., et al. 2018, *A&A*, 617, A110
- Parmentier, V., Showman, A. P., & Lian, Y. 2013, *A&A*, 558, A91
- Pascucci, I., Testi, L., Herczeg, G. J., et al. 2016, *ApJ*, 831, 125
- Pecaut, M. J. & Mamajek, E. E. 2016, *MNRAS*, 461, 794
- Pecaut, M. J., Mamajek, E. E., & Bubar, E. J. 2012, *ApJ*, 746, 154
- Pepe, F., Cristiani, S., Rebolo, R., et al. 2021, *A&A*, 645, A96
- Podsiadlowski, P., Pringle, J. E., & Rees, M. J. 1991, *Nature*, 352, 783
- Pollacco, D. L., Skillen, I., Collier Cameron, A., et al. 2006, *PASP*, 118, 1407
- Pollack, J. B., Hubickyj, O., Bodenheimer, P., et al. 1996, *Icarus*, 124, 62
- Pontoppidan, K. M., Dullemond, C. P., van Dishoeck, E. F., et al. 2005, *ApJ*, 622, 463
- Prantzos, N., Aubert, O., & Audouze, J. 1996, *A&A*, 309, 760
- Prinath, B., Hoeijmakers, H. J., Kitzmann, D., et al. 2022, *Nature Astronomy*, 6, 449
- Qi, C., Öberg, K. I., Wilner, D. J., et al. 2013, *Science*, 341, 630
- Queloz, D., Henry, G. W., Sivan, J. P., et al. 2001, *A&A*, 379, 279
- Queloz, D., Mayor, M., Weber, L., et al. 2000, *A&A*, 354, 99
- Quirrenbach, A., Amado, P. J., Caballero, J. A., et al. 2016, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 9908, Proc. SPIE, 990812
- Rafikov, R. R. 2011, *ApJ*, 727, 86
- Raghavan, D., McAlister, H. A., Henry, T. J., et al. 2010, *ApJS*, 190, 1
- Ragusa, E., Alexander, R., Calcino, J., Hirsh, K., & Price, D. J. 2020, *MNRAS*, 499, 3362
- Redfield, S., Endl, M., Cochran, W. D., & Koesterke, L. 2008, *ApJ*, 673, L87

- Reid, I. N., Cruz, K. L., Kirkpatrick, J. D., et al. 2008, *AJ*, 136, 1290
- Ribas, Á., Macías, E., Espaillat, C. C., & Duchêne, G. 2018, *ApJ*, 865, 77
- Ricker, G. R., Winn, J. N., Vanderspek, R., et al. 2015, *Journal of Astronomical Telescopes, Instruments, and Systems*, 1, 014003
- Roell, T., Neuhauser, R., Seifahrt, A., & Mugrauer, M. 2012, *A&A*, 542, A92
- Rosotti, G. P. & Clarke, C. J. 2018, *MNRAS*, 473, 5630
- Rossiter, R. A. 1924, *ApJ*, 60, 15
- Rota, A. A., Manara, C. F., Miotello, A., et al. 2022, *A&A*, 662, A121
- Rousset, G., Lacombe, F., Puget, P., et al. 2003, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 4839, *Adaptive Optical System Technologies II*, ed. P. L. Wizinowich & D. Bonaccini, 140–149
- Rufener, F. & Nicolet, B. 1988, *A&A*, 206, 357
- Rustamkulov, Z., Sing, D. K., Mukherjee, S., et al. 2022, *arXiv e-prints*, arXiv:2211.10487
- Ryabchikova, T., Piskunov, N., Kurucz, R. L., et al. 2015, *Phys. Scr*, 90, 054005
- Salz, M., Czesla, S., Schneider, P. C., et al. 2018, *A&A*, 620, A97
- Salz, M., Czesla, S., Schneider, P. C., & Schmitt, J. H. M. M. 2016, *A&A*, 586, A75
- Sanz-Forcada, J., Micela, G., Ribas, I., et al. 2011, *A&A*, 532, A6
- Schmidt, T. O. B., Vogt, N., Neuhauser, R., Bedalov, A., & Roell, T. 2013, *A&A*, 557, A80
- Schwarz, R., Funk, B., Zechner, R., & Bazsó, Á. 2016, *MNRAS*, 460, 3598
- Seager, S. 2010, *Exoplanet Atmospheres: Physical Processes*
- Seager, S. & Sasselov, D. D. 2000, *ApJ*, 537, 916
- Seidel, J. V., Ehrenreich, D., Allart, R., et al. 2021, *A&A*, 653, A73
- Seidel, J. V., Ehrenreich, D., Wyttenbach, A., et al. 2019, *A&A*, 623, A166
- Serindag, D. B. & Snellen, I. A. G. 2019, *ApJ*, 871, L7
- Shokry, A., Rivinius, T., Mehner, A., et al. 2018, *A&A*, 609, A108
- Showman, A. P., Fortney, J. J., Lewis, N. K., & Shabram, M. 2013, *ApJ*, 762, 24
- Sicilia-Aguilar, A., Henning, T., Linz, H., et al. 2013, *A&A*, 551, A34
- Siess, L., Dufour, E., & Forestini, M. 2000, *A&A*, 358, 593
- Sing, D. K., Fortney, J. J., Nikolov, N., et al. 2016, *Nature*, 529, 59

-
- Sing, D. K., Lavvas, P., Ballester, G. E., et al. 2019, *AJ*, 158, 91
- Smette, A., Sana, H., Noll, S., et al. 2015, *A&A*, 576, A77
- Smith, R. L., Pontoppidan, K. M., Young, E. D., & Morris, M. R. 2015, *ApJ*, 813, 120
- Snedden, C., Pilachowski, C. A., & Vandenberg, D. A. 1986, *ApJ*, 311, 826
- Snellen, I., de Kok, R., Birkby, J. L., et al. 2015, *A&A*, 576, A59
- Snellen, I. A. G., Brandl, B. R., de Kok, R. J., et al. 2014, *Nature*, 509, 63
- Snellen, I. A. G., de Kok, R. J., de Mooij, E. J. W., & Albrecht, S. 2010, *Nature*, 465, 1049
- Spake, J. J., Sing, D. K., Evans, T. M., et al. 2018, *Nature*, 557, 68
- Sparks, W. B. & Ford, H. C. 2002, *ApJ*, 578, 543
- Spiegel, D. S., Silverio, K., & Burrows, A. 2009, *ApJ*, 699, 1487
- Spitzer, L. 1978, *Physical processes in the interstellar medium*
- Stangret, M., Casasayas-Barris, N., Pallé, E., et al. 2022, *A&A*, 662, A101
- Stangret, M., Casasayas-Barris, N., Pallé, E., et al. 2020, *A&A*, 638, A26
- Stapelfeldt, K. 1997, *T Tauri Star Snapshot Survey: A Census of Protoplanetary Disks*, HST Proposal ID 7387. Cycle 7
- Stolker, T., Dominik, C., Min, M., et al. 2016, *A&A*, 596, A70
- Stolker, T., Quanz, S. P., Todorov, K. O., et al. 2020, *A&A*, 635, A182
- Storey, P. J. & Hummer, D. G. 1995, *MNRAS*, 272, 41
- Su, X.-N., Xie, J.-W., Zhou, J.-L., & Thebault, P. 2021, *AJ*, 162, 272
- Sullivan, K., Prato, L., Edwards, S., Avilez, I., & Schaefer, G. H. 2019, *ApJ*, 884, 28
- Tabernerero, H. M., Zapatero Osorio, M. R., Allart, R., et al. 2021, *A&A*, 646, A158
- Tafalla, M., Santiago-García, J., Hacar, A., & Bachiller, R. 2010, *A&A*, 522, A91
- Takami, M., Fu, G., Liu, H. B., et al. 2018, *ApJ*, 864, 20
- Takeda, G., Ford, E. B., Sills, A., et al. 2007, *ApJS*, 168, 297
- Talens, G. J. J., Justesen, A. B., Albrecht, S., et al. 2018, *A&A*, 612, A57
- Thalmann, C., Janson, M., Garufi, A., et al. 2016, *ApJ*, 828, L17
- Thalmann, C., Mulders, G. D., Hodapp, K., et al. 2014, *A&A*, 566, A51
- THE CASA TEAM, Bean, B., Bhatnagar, S., et al. 2022, *arXiv e-prints*, arXiv:2210.02276

- Trapman, L., Bosman, A. D., Rosotti, G., Hogerheijde, M. R., & van Dishoeck, E. F. 2021, *A&A*, 649, A95
- Tremblin, P., Amundsen, D. S., Chabrier, G., et al. 2016, *ApJ*, 817, L19
- Tremblin, P., Amundsen, D. S., Mourier, P., et al. 2015, *ApJ*, 804, L17
- Tremblin, P., Chabrier, G., Baraffe, I., et al. 2017, *ApJ*, 850, 46
- Tremblin, P., Padioleau, T., Phillips, M. W., et al. 2019, *ApJ*, 876, 144
- Tsuji, T. 2016, *PASJ*, 68, 84
- Turner, J. D., de Mooij, E. J. W., Jayawardhana, R., et al. 2020, *ApJ*, 888, L13
- Turrini, D., Schisano, E., Fonte, S., et al. 2021, *ApJ*, 909, 40
- Valenti, J. A. & Piskunov, N. 1996, *A&AS*, 118, 595
- van der Marel, N., Bosman, A. D., Krijt, S., Mulders, G. D., & Bergner, J. B. 2021, *A&A*, 653, L9
- van Dishoeck, E. F. & Black, J. H. 1988, *ApJ*, 334, 771
- van Holstein, R. G., Girard, J. H., de Boer, J., et al. 2020, *A&A*, 633, A64
- van Holstein, R. G., Snik, F., Girard, J. H., et al. 2017, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 10400, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, ed. S. Shaklan, 1040015
- van Holstein, R. G., Stolker, T., Jensen-Clem, R., et al. 2021, *A&A*, 647, A21
- Veras, D., Crepp, J. R., & Ford, E. B. 2009, *ApJ*, 696, 1600
- Verner, D. A., Ferland, G. J., Korista, K. T., & Yakovlev, D. G. 1996, *ApJ*, 465, 487
- Vidal-Madjar, A., Désert, J. M., Lecavelier des Etangs, A., et al. 2004, *ApJ*, 604, L69
- Vidal-Madjar, A., Lecavelier des Etangs, A., Désert, J. M., et al. 2003, *Nature*, 422, 143
- Vigan, A., Fontanive, C., Meyer, M., et al. 2021, *A&A*, 651, A72
- Vigan, A., Otten, G. P. P. L., Muslimov, E., et al. 2018, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, Vol. 10702, *Ground-based and Airborne Instrumentation for Astronomy VII*, ed. C. J. Evans, L. Simard, & H. Takami, 1070236
- Visser, R., van Dishoeck, E. F., & Black, J. H. 2009, *A&A*, 503, 323
- Vogt, N., Schmidt, T. O. B., Neuhäuser, R., et al. 2012, *A&A*, 546, A63
- Vorobyov, E. I., Skliarevskii, A. M., Elbakyan, V. G., et al. 2020, *A&A*, 635, A196
- Wakeford, H. R., Visscher, C., Lewis, N. K., et al. 2017, *MNRAS*, 464, 4247

-
- Waldmann, I. P., Rocchetto, M., Tinetti, G., et al. 2015, *ApJ*, 813, 13
- Wang, J., Fischer, D. A., Xie, J.-W., & Ciardi, D. R. 2014a, *ApJ*, 791, 111
- Wang, J., Koleccki, J. R., Ruffio, J.-B., et al. 2022, *AJ*, 163, 189
- Wang, J., Xie, J.-W., Barclay, T., & Fischer, D. A. 2014b, *ApJ*, 783, 4
- Wang, J. J., Ruffio, J.-B., Morris, E., et al. 2021a, *AJ*, 162, 148
- Wang, J. J., Vigan, A., Lacour, S., et al. 2021b, *AJ*, 161, 148
- West, R. G., Hellier, C., Almenara, J. M., et al. 2016, *A&A*, 585, A126
- Whittet, D. C. B., Prusti, T., Franco, G. A. P., et al. 1997, *A&A*, 327, 1194
- Williams, J. P., Mann, R. K., Di Francesco, J., et al. 2014, *ApJ*, 796, 120
- Wilson, T. L. 1999, *Reports on Progress in Physics*, 62, 143
- Wolszczan, A. & Frail, D. A. 1992, *Nature*, 355, 145
- Woodall, J., Agúndez, M., Markwick-Kemper, A. J., & Millar, T. J. 2007, *A&A*, 466, 1197
- Woods, P. M. 2009, arXiv e-prints, arXiv:0901.4513
- Wright, J. T., Marcy, G. W., Butler, R. P., & Vogt, S. S. 2004, *ApJS*, 152, 261
- Wytenbach, A., Ehrenreich, D., Lovis, C., Udry, S., & Pepe, F. 2015, *A&A*, 577, A62
- Wytenbach, A., Lovis, C., Ehrenreich, D., et al. 2017, *A&A*, 602, A36
- Wytenbach, A., Mollière, P., Ehrenreich, D., et al. 2020, *A&A*, 638, A87
- Xie, J.-W., Payne, M. J., Thébault, P., Zhou, J.-L., & Ge, J. 2011, *ApJ*, 735, 10
- Xuan, J. W., Wang, J., Ruffio, J.-B., et al. 2022, *ApJ*, 937, 54
- Yan, D., Guo, J., Huang, C., & Xing, L. 2021, *ApJ*, 907, L47
- Yan, F. & Henning, T. 2018, *Nature Astronomy*, 2, 714
- Yan, F., Pallé, E., Fosbury, R. A. E., Petr-Gotzens, M. G., & Henning, T. 2017, *A&A*, 603, A73
- Yan, Y. T., Zhang, J. S., Henkel, C., et al. 2019, *ApJ*, 877, 154
- Zagaria, F., Rosotti, G. P., & Lodato, G. 2021a, *MNRAS*, 504, 2235
- Zagaria, F., Rosotti, G. P., & Lodato, G. 2021b, *MNRAS*, 507, 2531
- Zapata, L. A., Rodríguez, L. F., Fernández-López, M., et al. 2020, *ApJ*, 896, 132
- Zeng, L., Jacobsen, S. B., Sasselov, D. D., et al. 2019, *Proceedings of the National Academy of Science*, 116, 9723

- Zhang, Y., Li, Q., Xie, J.-W., et al. 2018, *ApJ*, 861, 116
- Zhang, Y., Snellen, I. A. G., Bohn, A. J., et al. 2021a, *Nature*, 595, 370
- Zhang, Y., Snellen, I. A. G., & Mollière, P. 2021b, *A&A*, 656, A76
- Zhou, G., Huang, C. X., Bakos, G. Á., et al. 2019, *AJ*, 158, 141
- Zhu, Z., Dong, R., Stone, J. M., & Rafikov, R. R. 2015, *ApJ*, 813, 88
- Ziegler, C., Tokovinin, A., Briceño, C., et al. 2020, *AJ*, 159, 19
- Zurlo, A., Cieza, L. A., Ansdell, M., et al. 2021, *MNRAS*, 501, 2305
- Zurlo, A., Cieza, L. A., Pérez, S., et al. 2020, *MNRAS*, 496, 5089