



Universiteit
Leiden

The Netherlands

Young suns and infant planets: probing the origins of solar systems

Bohn, A.J.

Citation

Bohn, A. J. (2021, September 22). *Young suns and infant planets: probing the origins of solar systems*. Retrieved from <https://hdl.handle.net/1887/3213465>

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/1887/3213465>

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

Bibliography

- ALMA Partnership et al., 2015, *ApJ*, 808, L3
- Absil O., Bakker E. J., Schoeller M., Gondoin P. A., 2004, in Traub W. A., ed., *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 5491, New Frontiers in Stellar Interferometry*. p. 1320, doi:10.1117/12.549311
- Adams E. R., Dupree A. K., Kulesa C., McCarthy D., 2013, *AJ*, 146, 9
- Ali-Dib M., Mousis O., Petit J.-M., Lunine J. I., 2014, *ApJ*, 785, 125
- Alibert Y., Mordasini C., Benz W., Winisdoerffer C., 2005, *A&A*, 434, 343
- Allard F., Hauschildt P. H., Alexander D. R., Tamanai A., Schweitzer A., 2001, *ApJ*, 556, 357
- Allard F., Homeier D., Freytag B., 2012, *Philosophical Transactions of the Royal Society of London Series A*, 370, 2765
- Amara A., Quanz S. P., 2012, *MNRAS*, 427, 948
- Anderson D. R., et al., 2011, *ApJ*, 726, L19
- Anderson D. R., et al., 2014a, arXiv e-prints, p. arXiv:1410.3449
- Anderson D. R., et al., 2014b, *MNRAS*, 445, 1114
- Anderson D. R., et al., 2018, arXiv e-prints, p. arXiv:1812.09264
- Andrews S. M., Williams J. P., 2007, *ApJ*, 659, 705
- Andrews S. M., et al., 2012, *ApJ*, 744, 162
- Andrews S. M., et al., 2018, *ApJ*, 869, L41
- Anglada-Escudé G., et al., 2016, *Nature*, 536, 437
- Ansdell M., et al., 2016, *ApJ*, 828, 46
- Artigau É., Gagné J., Faherty J., Malo L., Naud M.-E., Doyon R., Lafrenière D., Beletsky Y., 2015, *The Astrophysical Journal*, 806, 254
- Asensio-Torres R., et al., 2019, *A&A*, 622, A42
- Astropy Collaboration et al., 2013, *A&A*, 558, A33
- Astropy Collaboration et al., 2018, *AJ*, 156, 123
- Auvergne M., et al., 2009, *A&A*, 506, 411
- Avenhaus H., Quanz S. P., Schmid H. M., Meyer M. R., Garufi A., Wolf S., Dominik C., 2014, *ApJ*, 781, 87
- Avenhaus H., et al., 2018, *ApJ*, 863, 44

- Babcock H. W., 1953, *PASP*, 65, 229
- Bailer-Jones C. A. L., Rybizki J., Fouesneau M., Mantelet G., Andrae R., 2018, *AJ*, 156, 58
- Bailey V., et al., 2014, *ApJ*, 780, L4
- Bakos G., Noyes R. W., Kovács G., Stanek K. Z., Sasselov D. D., Domsa I., 2004, *PASP*, 116, 266
- 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., et al., 1996, *A&AS*, 119, 373
- Barbato D., Bonomo A. S., Sozzetti A., Morbidelli R., 2018, arXiv e-prints, p. arXiv:1811.08249
- Barbieri M., et al., 2007, *A&A*, 476, L13
- Barclay T., Quintana E. V., Raymond S. N., Penny M. T., 2017, *ApJ*, 841, 86
- Barman T. S., Macintosh B., Konopacky Q. M., Marois C., 2011, *ApJ*, 733, 65
- Barrado y Navascués D., Martín E. L., 2003, *AJ*, 126, 2997
- Batygin K., 2012, *Nature*, 491, 418
- Batygin K., Brown M. E., 2016, *AJ*, 151, 22
- Batygin K., Bodenheimer P. H., Laughlin G. P., 2016, *ApJ*, 829, 114
- Bayo A., Rodrigo C., Barrado Y Navascués D., Solano E., Gutiérrez R., Morales-Calderón M., Allard F., 2008, *A&A*, 492, 277
- Béjar V. J. S., Zapatero Osorio M. R., Pérez-Garrido A., Álvarez C., Martín E. L., Rebolo R., Villó-Pérez I., Díaz-Sánchez A., 2008, *The Astrophysical Journal*, 673, L185
- Bell C. P. M., Mamajek E. E., Naylor T., 2015, *MNRAS*, 454, 593
- Benedict G. F., et al., 2006, *AJ*, 132, 2206
- Benisty M., et al., 2017, *A&A*, 597, A42
- Benisty M., et al., 2018, *A&A*, 619, A171
- Bennett D. P., Anderson J., Bond I. A., Udalski A., Gould A., 2006, *ApJ*, 647, L171
- Bergfors C., et al., 2013, *MNRAS*, 428, 182
- Bernardakis G. N., 1893, *Quaestiones Naturales*. Teubner
- Best W. M. J., et al., 2018, *ApJS*, 234, 1
- Beuzit J. L., et al., 2019, *A&A*, 631, A155
- Biller B. A., Bonnefoy M., 2018, *Exoplanet Atmosphere Measurements from Direct Imaging*. p. 101, doi:10.1007/978-3-319-55333-7_101
- Biller B. A., et al., 2013, *ApJ*, 777, 160
- Biller B. A., et al., 2018, *AJ*, 155, 95
- Biller B. A., et al., 2021, *MNRAS*, 503, 743
- Bodenheimer P., Hubickyj O., Lissauer J. J., 2000, *Icarus*, 143, 2
- Boehle A., Quanz S. P., Lovis C., Ségransan D., Udry S., Apai D., 2019, *A&A*, 630, A50
- Bohn A. J., et al., 2019, *A&A*, 624, A87
- Bohn A. J., et al., 2020a, *MNRAS*, 492, 431
- Bohn A. J., et al., 2020b, *ApJ*, 898, L16
- Bohn A. J., et al., 2021, *A&A*, 648, A
- Boley A. C., Granados Contreras A. P., Gladman B., 2016, *ApJ*, 817, L17

- Bond I. A., et al., 2004, *ApJ*, 606, L155
- Bonnefoy M., et al., 2011, *A&A*, 528, L15
- Bonnefoy M., et al., 2013, *A&A*, 555, A107
- Bonnefoy M., et al., 2016, *A&A*, 587, A58
- Borucki W. J., Summers A. L., 1984, *Icarus*, 58, 121
- Borucki W. J., et al., 2010, *Science*, 327, 977
- Boss A. P., 1997, *Science*, 276, 1836
- Boss A. P., 2011, *ApJ*, 731, 74
- Bouchy F., et al., 2010, *A&A*, 519, A98
- Bowler B. P., 2016, *PASP*, 128, 102001
- Bowler B. P., Liu M. C., Shkolnik E. L., Dupuy T. J., 2013, *The Astrophysical Journal*, 774, 55
- Bowler B. P., et al., 2017, *The Astronomical Journal*, 153, 18
- Bowler B. P., Blunt S. C., Nielsen E. L., 2020, *AJ*, 159, 63
- Bradley L., et al., 2016, *Photutils: Photometry tools (ascl:1609.011)*
- Brandl B. R., et al., 2014, in Ramsay S. K., McLean I. S., Takami H., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 9147, Ground-based and Airborne Instrumentation for Astronomy V*. p. 914721 ([arXiv:1409.3087](https://arxiv.org/abs/1409.3087)), doi:10.1117/12.2056468
- Brown T. M., 2001, *ApJ*, 553, 1006
- Brown T. M., 2003, *ApJ*, 593, L125
- Brown D. J. A., et al., 2017, *MNRAS*, 464, 810
- Burgasser A. J., 2007, *ApJ*, 659, 655
- Burgasser A. J., McElwain M. W., 2006, *AJ*, 131, 1007
- Burgasser A. J., Marley M. S., Ackerman A. S., Saumon D., Lodders K., Dahn C. C., Harris H. C., Kirkpatrick J. D., 2002, *ApJ*, 571, L151
- Burgasser A. J., McElwain M. W., Kirkpatrick J. D., Cruz K. L., Tinney C. G., Reid I. N., 2004, *AJ*, 127, 2856
- Burgasser A. J., Liu M. C., Ireland M. J., Cruz K. L., Dupuy T. J., 2008, *ApJ*, 681, 579
- Burgasser A. J., Cruz K. L., Cushing M., Gelino C. R.,Looper D. L., Faherty J. K., Kirkpatrick J. D., Reid I. N., 2010, *ApJ*, 710, 1142
- Burnet J., 1903, *Platonis Opera*. Oxford University Press
- Burrows A., et al., 1997, *ApJ*, 491, 856
- Butler R. P., Marcy G. W., Williams E., Hauser H., Shirts P., 1997, *ApJ*, 474, L115
- Caffau E., Ludwig H. G., Steffen M., Freytag B., Bonifacio P., 2011, *Sol. Phys.*, 268, 255
- Cantalloube F., et al., 2015, *A&A*, 582, A89
- Cantalloube F., et al., 2018, *A&A*, 620, L10
- Cantalloube F., et al., 2020, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. p. 114485A, doi:10.1117/12.2574803
- Carillet M., et al., 2011, *Experimental Astronomy*, 30, 39
- Carson J., et al., 2013, *The Astrophysical Journal*, 763, L32
- Casassus S., et al., 2015, *ApJ*, 812, 126
- Castelli F., Kurucz R. L., 1994, *A&A*, 281, 817

- Chabrier G., 2003, *PASP*, 115, 763
- Chabrier G., Baraffe I., Allard F., Hauschildt P., 2000, *ApJ*, 542, 464
- Chabrier G., Baraffe I., Leconte J., Gallardo J., Barman T., 2009, in Stempels E., ed., *American Institute of Physics Conference Series Vol. 1094, 15th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*. pp 102–111 (arXiv:0810.5085), doi:10.1063/1.3099078
- Charbonneau D., Brown T. M., Latham D. W., Mayor M., 2000, *ApJ*, 529, L45
- Charbonneau D., Brown T. M., Dunham E. W., Latham D. W., Looper D. L., Mandushev G., 2004, in Holt S. S., Deming D., eds, *American Institute of Physics Conference Series Vol. 713, The Search for Other Worlds*. pp 151–160 (arXiv:astro-ph/0401063), doi:10.1063/1.1774515
- Chatterjee S., Ford E. B., Matsumura S., Rasio F. A., 2008, *ApJ*, 686, 580
- Chauvin G., Lagrange A. M., Dumas C., Zuckerman B., Mouillet D., Song I., Beuzit J. L., Lowrance P., 2004, *A&A*, 425, L29
- Chauvin G., et al., 2005, *Astronomy and Astrophysics*, 438, L29
- Chauvin G., et al., 2017a, in *SF2A-2017: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics*. p. Di
- Chauvin G., et al., 2017b, *Astronomy and Astrophysics*, 605, L9
- Chauvin G., et al., 2018, *A&A*, 617, A76
- Cheetham A. C., et al., 2019, *A&A*, 622, A80
- Chen C. H., Pecauc M., Mamajek E. E., Su K. Y. L., Bitner M., 2012, *ApJ*, 756, 133
- Chiu K., Fan X., Leggett S. K., Golimowski D. A., Zheng W., Geballe T. R., Schneider D. P., Brinkmann J., 2006, *AJ*, 131, 2722
- Choi J., Dotter A., Conroy C., Cantiello M., Paxton B., Johnson B. D., 2016, *ApJ*, 823, 102
- Choquet E., et al., 2014, in *Exploring the Formation and Evolution of Planetary Systems*. pp 30–31, doi:10.1017/S1743921313007722
- Choquet É., et al., 2016, *ApJ*, 817, L2
- Choquet É., et al., 2017, *ApJ*, 834, L12
- Christiaens V., et al., 2019, *MNRAS*, 486, 5819
- Ciceri S., et al., 2013, *A&A*, 557, A30
- Cincotta P. M., Giordano C. M., Simó C., 2003, *Physica D Nonlinear Phenomena*, 182, 151
- Claudi R. U., et al., 2008, in *Ground-based and Airborne Instrumentation for Astronomy II*. p. 70143E, doi:10.1117/12.788366
- Cocconi G., Morrison P., 1959, *Nature*, 184, 844
- Cochran W. D., Hatzes A. P., 1996, *Ap&SS*, 241, 43
- Codona J. L., Kenworthy M. A., Hinz P. M., Angel J. R. P., Woolf N. J., 2006, in McLean I. S., Iye M., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 6269, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. p. 62691N, doi:10.1117/12.672727
- Coelho P. R. T., 2014, *MNRAS*, 440, 1027
- Collier Cameron A., et al., 2007, *MNRAS*, 375, 951
- Cosentino R., et al., 2012, in *Ground-based and Airborne Instrumentation for Astronomy IV*. p. 84461V, doi:10.1117/12.925738
- Cridland A. J., Pudritz R. E., Alessi M., 2016, *MNRAS*, 461, 3274

- Cruz K. L., Burgasser A. J., Reid I. N., Liebert J., 2004, *ApJ*, 604, L61
- Currie T., et al., 2011, *ApJ*, 729, 128
- Currie T., et al., 2013, *ApJ*, 776, 15
- Cushing M. C., Rayner J. T., Vacca W. D., 2005, *ApJ*, 623, 1115
- Cutri R. M., et al. 2014, *VizieR Online Data Catalog*, p. II/328
- Cutri R. M., et al., 2003, 2MASS All Sky Catalog of point sources.. IPAC
- Cutri R. M., et al., 2012a, *VizieR Online Data Catalog*, p. II/281
- Cutri R. M., et al., 2012b, *VizieR Online Data Catalog*, p. II/311
- Daemgen S., Hormuth F., Brandner W., Bergfors C., Janson M., Hippler S., Henning T., 2009, *A&A*, 498, 567
- Dahlqvist C. H., Cantalloube F., Absil O., 2020, *A&A*, 633, A95
- Dahlqvist C. H., Louppe G., Absil O., 2021, *A&A*, 646, A49
- Damasso M., et al., 2020, *Science Advances*, 6, eaax7467
- Damiani F., Prisinzano L., Pillitteri I., Micela G., Sciortino S., 2019, *A&A*, 623, A112
- Davies R., et al., 2018, in Evans C. J., Simard L., Takami H., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 10702, Ground-based and Airborne Instrumentation for Astronomy VII*. p. 1070209 (arXiv:1807.05089), doi:10.1117/12.2311480
- Debes J. H., et al., 2017, *ApJ*, 835, 205
- Deeming T. J., 1964, *MNRAS*, 127, 493
- Delorme P., et al., 2013, *Astronomy and Astrophysics*, 553, L5
- Delrez L., et al., 2014, *A&A*, 563, A143
- Delrez L., et al., 2016, *MNRAS*, 458, 4025
- Delrez L., et al., 2018, in Marshall H. K., Spyromilio J., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 10700, Ground-based and Airborne Telescopes VII*. p. 107001I (arXiv:1806.11205), doi:10.1117/12.2312475
- Demory B.-O., et al., 2013, *ApJ*, 776, L25
- Dhital S., Burgasser A. J.,Looper D. L., Stassun K. G., 2011, *AJ*, 141, 7
- Dietrich J., Ginski C., 2018, *A&A*, 620, A102
- Dodson-Robinson S. E., Veras D., Ford E. B., Beichman C. A., 2009, *ApJ*, 707, 79
- Dohlen K., et al., 2008, in McLean I. S., Casali M. M., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 7014, Ground-based and Airborne Instrumentation for Astronomy II*. p. 70143L, doi:10.1117/12.789786
- Dominik C., Dullemond C. P., Waters L. B. F. M., Walch S., 2003, *A&A*, 398, 607
- Dorn R. J., et al., 2014, *The Messenger*, 156, 7
- Dotter A., 2016, *ApJS*, 222, 8
- Drake S., 1957, *Discoveries and opinions of Galileo*. Doubleday New York
- Drake F. D., 1961, *Physics Today*, 14, 40
- Drake F. D., 1979, *Cosmic Search*, 1, 10
- Durisen R. H., Boss A. P., Mayer L., Nelson A. F., Quinn T., Rice W. K. M., 2007, in Reipurth B., Jewitt D., Keil K., eds, *Protostars and Planets V*. p. 607 (arXiv:astro-ph/0603179)
- Dyson F. W., Eddington A. S., Davidson C., 1920, *Philosophical Transactions of the Royal Society of London Series A*, 220, 291

- Eggleton P. P., Kiseleva-Eggleton L., 2001, *ApJ*, 562, 1012
- Einstein A., 1916, *Annalen der Physik*, 354, 769
- Einstein A., 1936, *Science*, 84, 506
- Eisenbeiss T., Ammler-von Eiff M., Roell T., Mugrauer M., Adam C., Neuhäuser R., Schmidt T. O. B., Bedalov A., 2013, *A&A*, 556, A53
- Eisenhardt P. R. M., et al., 2020, *ApJS*, 247, 69
- Eistrup C., Walsh C., van Dishoeck E. F., 2016, *A&A*, 595, A83
- Eistrup C., Walsh C., van Dishoeck E. F., 2018, *A&A*, 613, A14
- Epchtein N., et al., 1997, *The Messenger*, 87, 27
- Evans J. E., Maunder E. W., 1903, *MNRAS*, 63, 488
- Evans D. F., et al., 2016a, *A&A*, 589, A58
- Evans D. F., Southworth J., Smalley B., 2016b, *ApJ*, 833, L19
- Evans D. F., et al., 2018, *A&A*, 610, A20
- Fabrycky D., Tremaine S., 2007, *ApJ*, 669, 1298
- Faedi F., et al., 2013a, *MNRAS*, 433, 2097
- Faedi F., et al., 2013b, *A&A*, 551, A73
- Fagginger Auer F., Portegies Zwart S., 2021, arXiv e-prints, p. arXiv:2101.08033
- Faherty J. K., Burgasser A. J., Cruz K. L., Shara M. M., Walter F. M., Gelino C. R., 2009, *AJ*, 137, 1
- Feiden G. A., 2016, *A&A*, 593, A99
- Fienup J. R., 1997, *Applied optics*, 36, 8352
- Fischer D. A., Marcy G. W., Butler R. P., Vogt S. S., Apps K., 1999, *PASP*, 111, 50
- Fitzgibbon A., Pilu M., Fisher R. B., 1999, *IEEE Trans. Pattern Anal. Mach. Intell.*, 21, 476
- Flasseur O., Denis L., Thiébaud É., Langlois M., 2018, *A&A*, 618, A138
- Flasseur O., Denis L., Thiébaud É., Langlois M., 2020, *A&A*, 637, A9
- Fontenelle B. L. B. d., 1686, *Entretiens sur la pluralité des mondes*
- Foreman-Mackey D., Hogg D. W., Lang D., Goodman J., 2013, *PASP*, 125, 306
- Forgan D., Rice K., 2013, *MNRAS*, 432, 3168
- Forgan D. H., Hall C., Meru F., Rice W. K. M., 2018, *MNRAS*, 474, 5036
- Fried D. L., 1966, *Journal of the Optical Society of America (1917-1983)*, 56, 1372
- Furlan E., et al., 2009, *ApJ*, 703, 1964
- Fusco T., et al., 2006, *Optics Express*, 14, 7515
- Gagné J., et al., 2018, *ApJ*, 856, 23
- Gaia Collaboration et al., 2016, *A&A*, 595, A1
- Gaia Collaboration et al., 2018, *A&A*, 616, A1
- Gaia Collaboration et al., 2021, *A&A*, 649, A1
- Galicher R., et al., 2014, *A&A*, 565, L4
- Galicher R., et al., 2016, *A&A*, 594, A63
- Galicher R., et al., 2018, *A&A*, 615, A92
- Gardner J. P., et al., 2006, *Space Sci. Rev.*, 123, 485

- Garufi A., et al., 2018, *A&A*, 620, A94
- Gaudi B. S., et al., 2020, arXiv e-prints, p. arXiv:2001.06683
- Gauza B., Béjar V. J. S., Pérez-Garrido A., Zapatero Osorio M. R., Lodieu N., Rebolo R., Pallé E., Nowak G., 2015, *The Astrophysical Journal*, 804, 96
- Gebhard T. D., Bonse M. J., Quanz S. P., Schölkopf B., 2020, arXiv e-prints, p. arXiv:2010.05591
- Gelino C. R., Burgasser A. J., 2010, *AJ*, 140, 110
- Gelino C. R., et al., 2011, *The Astronomical Journal*, 142, 57
- Ghezzi L., Montet B. T., Johnson J. A., 2018, *ApJ*, 860, 109
- Gibson N. P., Aigrain S., Barstow J. K., Evans T. M., Fletcher L. N., Irwin P. G. J., 2013, *MNRAS*, 428, 3680
- Gillon M., Jehin E., Magain P., Chantry V., Hutsemékers D., Manfroid J., Queloz D., Udry S., 2011, in *European Physical Journal Web of Conferences*. p. 06002 (arXiv:1101.5807), doi:10.1051/epjconf/20101106002
- Gillon M., et al., 2013, *A&A*, 552, A82
- Gillon M., et al., 2016, *Nature*, 533, 221
- Gillon M., et al., 2017, *Nature*, 542, 456
- Gilmozzi R., Spyromilio J., 2007, *The Messenger*, 127, 11
- Ginski C., Schmidt T. O. B., Mugrauer M., Neuhäuser R., Vogt N., Errmann R., Berndt A., 2014, *MNRAS*, 444, 2280
- Ginski C., et al., 2016a, *MNRAS*, 457, 2173
- Ginski C., et al., 2016b, *A&A*, 595, A112
- Girard J. H., et al., 2020, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. p. 1144337, doi:10.1117/12.2561736
- Girardi L., Groenewegen M. A. T., Hatziminaoglou E., da Costa L., 2005, *A&A*, 436, 895
- Gizis J. E., Allers K. N., Liu M. C., Harris H. C., Faherty J. K., Burgasser A. J., Kirkpatrick J. D., 2015, *ApJ*, 799, 203
- Gladysz S., Christou J. C., 2008, *ApJ*, 684, 1486
- Goldman B., Röser S., Schilbach E., Moór A. C., Henning T., 2018, *ApJ*, 868, 32
- Goldreich P., Ward W. R., 1973, *ApJ*, 183, 1051
- Golimowski D. A., et al., 2004, *AJ*, 127, 3516
- Gomez Gonzalez C. A., Absil O., Absil P. A., Van Droogenbroeck M., Mawet D., Surdej J., 2016, *A&A*, 589, A54
- Gomez Gonzalez C. A., Absil O., Van Droogenbroeck M., 2018, *A&A*, 613, A71
- Goodwin W. W., 1874, *Quaestiones Naturales*. Little, Brown, and Company
- Gouliniski N., Ribak E. N., 2018, *MNRAS*, 473, 1589
- Grant M., 1936, *Annals of Science*, 1, 385
- Gravity Collaboration et al., 2017, *A&A*, 602, A94
- Gravity Collaboration et al., 2019, *A&A*, 623, L11
- Gravity Collaboration et al., 2020, *A&A*, 633, A110
- Gray R. O., Kaye A. B., 1999, *AJ*, 118, 2993
- Greenbaum A. Z., et al., 2018, *AJ*, 155, 226

- Grimm S. L., et al., 2018, *A&A*, 613, A68
- Groff T. D., et al., 2015, in Shaklan S., ed., *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 9605, Techniques and Instrumentation for Detection of Exoplanets VII*. p. 96051C, doi:10.1117/12.2188465
- Guerri G., et al., 2011, *Experimental Astronomy*, 30, 59
- Guizar-Sicairos M., Thurman S. T., Fienup J. R., 2008, *Optics letters*, 33, 156
- Guyon O., 2003, *A&A*, 404, 379
- Haffert S. Y., Bohn A. J., de Boer J., Snellen I. A. G., Brinchmann J., Girard J. H., Keller C. U., Bacon R., 2019, *Nature Astronomy*, 3, 749
- Hagan J. B., Choquet É., Soummer R., Vigan A., 2018, *AJ*, 155, 179
- Haisch Karl E. J., Lada E. A., Lada C. J., 2001, *ApJ*, 553, L153
- Han E., Wang S. X., Wright J. T., Feng Y. K., Zhao M., Fakhouri O., Brown J. I., Hancock C., 2014, *PASP*, 126, 827
- Hardy J. W., 1998, *Adaptive Optics for Astronomical Telescopes*
- Hartman J. D., et al., 2012, *AJ*, 144, 139
- Hartman J. D., et al., 2015, *AJ*, 150, 197
- Hay K. L., et al., 2016, *MNRAS*, 463, 3276
- Hayashi C., 1981, *Progress of Theoretical Physics Supplement*, 70, 35
- Hellier C., et al., 2009, *ApJ*, 690, L89
- Hellier C., et al., 2010, *ApJ*, 723, L60
- Hellier C., et al., 2014, *MNRAS*, 440, 1982
- Hellier C., et al., 2015, *AJ*, 150, 18
- Hellier C., et al., 2017, *MNRAS*, 465, 3693
- Henden A., Munari U., 2014, *Contributions of the Astronomical Observatory Skalnaté Pleso*, 43, 518
- Henden A. A., Levine S. E., Terrell D., Smith T. C., Welch D., 2012, *Journal of the American Association of Variable Star Observers (JAAVSO)*, 40, 430
- Henden A. A., Templeton M., Terrell D., Smith T. C., Levine S., Welch D., 2016, *VizieR Online Data Catalog*, p. II/336
- Henize K. G., 1976, *The Astrophysical Journal Supplement Series*, 30, 491
- Henry G. W., Marcy G. W., Butler R. P., Vogt S. S., 2000, *ApJ*, 529, L41
- Hoeijmakers H. J., et al., 2018a, *Nature*, 560, 453
- Hoeijmakers H. J., Schwarz H., Snellen I. A. G., de Kok R. J., Bonnefoy M., Chauvin G., Lagrange A. M., Girard J. H., 2018b, *A&A*, 617, A144
- Høg E., et al., 2000, *A&A*, 355, L27
- Hom J., et al., 2020, *AJ*, 159, 31
- Houk N., Cowley A. P., 1975, *University of Michigan Catalogue of two-dimensional spectral types for the HD stars. Volume I. Declinations -90° to -53°*
- Hughes A. M., Duchêne G., Matthews B. C., 2018, *ARA&A*, 56, 541
- Hunter J. D., 2007, *Computing in Science and Engineering*, 9, 90
- Hunziker S., Quanz S. P., Amara A., Meyer M. R., 2018, *A&A*, 611, A23
- Hunziker S., et al., 2020, *A&A*, 634, A69

- Huygens C., Huygens C., 1698, *The Celestial Worlds Discover'd, or, Conjectures concerning the Inhabitants, Plants and Productions of the Worlds in the Planets*. No. 13, James Knapton
- Ishihara D., et al., 2010, *A&A*, 514, A1
- Itoh Y., et al., 2005, *The Astrophysical Journal*, 620, 984
- Janson M., Brandner W., Henning T., 2008, *A&A*, 478, 597
- Janson M., et al., 2019, *A&A*, 626, A99
- Janson M., et al., 2021, *A&A*, 646, A164
- Jehin E., et al., 2011, *The Messenger*, 145, 2
- Johansen A., Lacerda P., 2010, *MNRAS*, 404, 475
- Johnson J. A., Aller K. M., Howard A. W., Crepp J. R., 2010, *PASP*, 122, 905
- Jovanovic N., et al., 2015, *PASP*, 127, 890
- Kasper M., Apai D., Janson M., Brandner W., 2007, *A&A*, 472, 321
- Kausch W., et al., 2015, *A&A*, 576, A78
- Kawada M., et al., 2007, *Publications of the Astronomical Society of Japan*, 59, S389
- Kendall M. G., 1957, Technical report, *A course in multivariate analysis*
- Kenworthy M. A., Codona J. L., Hinz P. M., Angel J. R. P., Heinze A., Sivanandam S., 2007, *ApJ*, 660, 762
- Kepler M., et al., 2018, *A&A*, 617, A44
- Kiefer S., Bohn A. J., Quanz S. P., Kenworthy M. A., Stolker T., *subm.*, *A&A*
- Kiraga M., 2012, *Acta Astron.*, 62, 67
- Kirkpatrick J. D., Barman T. S., Burgasser A. J., McGovern M. R., McLean I. S., Tinney C. G., Lowrance P. J., 2006, *ApJ*, 639, 1120
- Kirkpatrick J. D., et al., 2010, *ApJS*, 190, 100
- Kley W., Nelson R. P., 2012, *ARA&A*, 50, 211
- Knapp G. R., et al., 2004, *AJ*, 127, 3553
- Konacki M., Torres G., Jha S., Sasselov D. D., 2003, *Nature*, 421, 507
- Konopacky Q. M., Barman T. S., Macintosh B. A., Marois C., 2013, *Science*, 339, 1398
- Kratter K., Lodato G., 2016, *ARA&A*, 54, 271
- Kratter K. M., Murray-Clay R. A., Youdin A. N., 2010, *ApJ*, 710, 1375
- Kraus A. L., Ireland M. J., Cieza L. A., Hinkley S., Dupuy T. J., Bowler B. P., Liu M. C., 2014, *The Astrophysical Journal*, 781, 20
- Kraus S., et al., 2017, *ApJ*, 848, L11
- Kroupa P., 2001, *MNRAS*, 322, 231
- Kuchner M. J., Seager S., 2005, *arXiv e-prints*, pp astro-ph/0504214
- Kuhn R. B., et al., 2016, *MNRAS*, 459, 4281
- Kuzuhara M., et al., 2013, *The Astrophysical Journal*, 774, 11
- Lafrenière D., Marois C., Doyon R., Nadeau D., Artigau É., 2007a, *ApJ*, 660, 770
- Lafrenière D., et al., 2007b, *ApJ*, 670, 1367
- Lafrenière D., Jayawardhana R., van Kerkwijk M. H., 2008, *The Astrophysical Journal*, 689, L153
- Lagrange A.-M., Backman D. E., Artymowicz P., 2000, *Protostars and Planets IV*, p. 639

- Lagrange A. M., et al., 2009, *A&A*, 493, L21
- Lagrange A. M., et al., 2010, *Science*, 329, 57
- Lagrange A.-M., et al., 2019, *A&A*, 621, L8
- Lai D., Foucart F., Lin D. N. C., 2011, in Sozzetti A., Lattanzi M. G., Boss A. P., eds, *IAU Symposium Vol. 276, The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*. pp 295–299, doi:10.1017/S1743921311020345
- Lallement R., Babusiaux C., Vergely J. L., Katz D., Arenou F., Valette B., Hottier C., Capitanio L., 2019, *A&A*, 625, A135
- Lam K. W. F., et al., 2017, *A&A*, 599, A3
- Lamb W. R. M., 1925, *Plato in Twelve Volumes*. Harvard University Press
- Lambrechts M., Johansen A., 2012, *A&A*, 544, A32
- Lammer H., Blanc M., 2018, *Space Sci. Rev.*, 214, 60
- Langlois M., Vigan A., Moutou C., Sauvage J.-F., Dohlen K., Costille A., Mouillet D., Le Mignant D., 2013, in *Proceedings of the Third AO4ELT Conference*. p. 63, doi:10.12839/AO4ELT3.13317
- Langlois M., et al., 2014, in *Ground-based and Airborne Instrumentation for Astronomy V*. p. 91471R, doi:10.1117/12.2055549
- Larkin J., et al., 2006, in McLean I. S., Iye M., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 6269*, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. p. 62691A, doi:10.1117/12.672061
- Larkin J. E., et al., 2014, in Ramsay S. K., McLean I. S., Takami H., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 9147*, *Ground-based and Airborne Instrumentation for Astronomy V*. p. 91471K (arXiv:1407.2314), doi:10.1117/12.2056504
- Launhardt R., et al., 2020, *A&A*, 635, A162
- Law N. M., et al., 2014, *ApJ*, 791, 35
- Lendl M., et al., 2014, *A&A*, 568, A81
- Lenzen R., et al., 2003, in Iye M., Moorwood A. F. M., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 4841*, *Instrument Design and Performance for Optical/Infrared Ground-based Telescopes*. pp 944–952, doi:10.1117/12.460044
- Levenberg K., 1944, *Quarterly of applied mathematics*, 2, 164
- Lillo-Box J., Barrado D., Bouy H., 2014, *A&A*, 566, A103
- Lin D. N. C., Bodenheimer P., Richardson D. C., 1996, *Nature*, 380, 606
- Lister T. A., et al., 2009, *ApJ*, 703, 752
- Liu M. C., Dupuy T. J., Bowler B. P., Leggett S. K., Best W. M. J., 2012, *The Astrophysical Journal*, 758, 57
- Lodders K., 2004, *ApJ*, 611, 587
- Lodders K., Palme H., Gail H. P., 2009, *Landolt-Börnstein*, 4B, 712
- Looper D. L., Burgasser A. J., Kirkpatrick J. D., Swift B. J., 2007, *ApJ*, 669, L97
- Looper D. L., Bochanski J. J., Burgasser A. J., Mohanty S., Mamajek E. E., Faherty J. K., West A. A., Pitts M. A., 2010, *AJ*, 140, 1486
- Lovejoy A. O., 1936, *Cambridge Mas*
- Lowell P., 1895, *Mars*
- Lowell P., 1906, *Mars and its Canals*

- Luhman K. L., Mamajek E. E., 2012, *ApJ*, 758, 31
- Luhman K. L., Adame L., D'Alessio P., Calvet N., Hartmann L., Megeath S. T., Fazio G. G., 2005, *The Astrophysical Journal*, 635, L93
- Luhman K. L., et al., 2007, *The Astrophysical Journal*, 654, 570
- Luhman K. L., Mamajek E. E., Allen P. R., Muench A. A., Finkbeiner D. P., 2009, *The Astrophysical Journal*, 691, 1265
- Luhman K. L., Mamajek E. E., Shukla S. J., Loutrel N. P., 2017, *AJ*, 153, 46
- Lyot B., 1939, *MNRAS*, 99, 580
- Macintosh B., et al., 2014, *Proceedings of the National Academy of Science*, 111, 12661
- Macintosh B., et al., 2015, *Science*, 350, 64
- Macintosh B., et al., 2018, in Close L. M., Schreiber L., Schmidt D., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 10703, Adaptive Optics Systems VI*. p. 107030K ([arXiv:1807.07146](https://arxiv.org/abs/1807.07146)), doi:10.1117/12.2314253
- Madhusudhan N., 2019, *ARA&A*, 57, 617
- Madhusudhan N., Amin M. A., Kennedy G. M., 2014, *ApJ*, 794, L12
- Maire A. L., et al., 2015, *A&A*, 576, A133
- Maire A.-L., et al., 2016, in *Ground-based and Airborne Instrumentation for Astronomy VI*. p. 990834, doi:10.1117/12.2233013
- Maire A. L., et al., 2020, *A&A*, 633, L2
- Mamajek E. E., Pecaut M. J., Nguyen D. C., Bubar E. J., 2013a, in *Protostars and Planets VI Posters*.
- Mamajek E. E., et al., 2013b, *AJ*, 146, 154
- Manara C. F., et al., 2013a, *A&A*, 551, A107
- Manara C. F., Beccari G., Da Rio N., De Marchi G., Natta A., Ricci L., Robberto M., Testi L., 2013b, *A&A*, 558, A114
- Manara C. F., Frasca A., Alcalá J. M., Natta A., Stelzer B., Testi L., 2017, *A&A*, 605, A86
- Mancini L., et al., 2014, *A&A*, 562, A126
- Mancini L., et al., 2019, *MNRAS*, 485, 5168
- Marois C., Lafrenière D., Doyon R., Macintosh B., Nadeau D., 2006a, *ApJ*, 641, 556
- Marois C., Phillion D. W., Macintosh B., 2006b, in McLean I. S., Iye M., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 6269, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. p. 62693M ([arXiv:astro-ph/0607002](https://arxiv.org/abs/astro-ph/0607002)), doi:10.1117/12.672263
- Marois C., Macintosh B., Barman T., Zuckerman B., Song I., Patience J., Lafrenière D., Doyon R., 2008, *Science*, 322, 1348
- Marois C., Zuckerman B., Konopacky Q. M., Macintosh B., Barman T., 2010, *Nature*, 468, 1080
- Marois C., Correia C., Galicher R., Ingraham P., Macintosh B., Currie T., De Rosa R., 2014, in Marchetti E., Close L. M., Vran J.-P., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 9148, Adaptive Optics Systems IV*. p. 91480U ([arXiv:1407.2555](https://arxiv.org/abs/1407.2555)), doi:10.1117/12.2055245
- Marquardt D. W., 1963, *Journal of the society for Industrial and Applied Mathematics*, 11, 431
- Martin R. G., Livio M., 2012, *MNRAS*, 425, L6
- Martinez P., Dorrer C., Aller Carpentier E., Kasper M., Boccaletti A., Dohlen K., Yaitskova N., 2009, *A&A*, 495, 363

- Maschberger T., 2013, *MNRAS*, 429, 1725
- Matsuyama I., Johnstone D., Hartmann L., 2003, *ApJ*, 582, 893
- Mawet D., Serabyn E., Stapelfeldt K., Crepp J., 2009, *ApJ*, 702, L47
- Mawet D., et al., 2012, in Clampin M. C., Fazio G. G., MacEwen H. A., Oschmann Jacobus M. J., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 8442, Space Telescopes and Instrumentation 2012: Optical, Infrared, and Millimeter Wave*. p. 844204 ([arXiv:1207.5481](https://arxiv.org/abs/1207.5481)), doi:10.1117/12.927245
- Mawet D., et al., 2014, *ApJ*, 792, 97
- Maxted P. F. L., Serenelli A. M., Southworth J., 2015, *A&A*, 577, A90
- Mayor M., Queloz D., 1995, *Nature*, 378, 355
- Mayor M., et al., 2003, *The Messenger*, 114, 20
- McElwain M. W., Burgasser A. J., 2006, *AJ*, 132, 2074
- McLean I. S., McGovern M. R., Burgasser A. J., Kirkpatrick J. D., Prato L., Kim S. S., 2003, *ApJ*, 596, 561
- McLean I. S., Prato L., McGovern M. R., Burgasser A. J., Kirkpatrick J. D., Rice E. L., Kim S. S., 2007, *ApJ*, 658, 1217
- Mellon S. N., Mamajek E. E., Oberst T. E., Pecaut M. J., 2017, *ApJ*, 844, 66
- Mennesson B., et al., 2016, in MacEwen H. A., Fazio G. G., Lystrup M., Batalha N., Siegler N., Tong E. C., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 9904, Space Telescopes and Instrumentation 2016: Optical, Infrared, and Millimeter Wave*. p. 99040L, doi:10.1117/12.2240457
- Mesa D., et al., 2019a, *MNRAS*, 488, 37
- Mesa D., et al., 2019b, *A&A*, 632, A25
- Meshkat T., Kenworthy M. A., Quanz S. P., Amara A., 2014, *ApJ*, 780, 17
- Metchev S. A., Hillenbrand L. A., 2006, *The Astrophysical Journal*, 651, 1166
- Millar-Blanchaer M. A., Esposito T. M., Stahl K., Fitzgerald M. P., Perrin M. D., Kalas P., Macintosh B., Graham J. R., 2017, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. p. 104070V, doi:10.1117/12.2275823
- Milli J., Mouillet D., Lagrange A. M., Boccaletti A., Mawet D., Chauvin G., Bonnefoy M., 2012, *A&A*, 545, A111
- Modigliani A., et al., 2010, in Silva D. R., Peck A. B., Soifer B. T., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 7737, Observatory Operations: Strategies, Processes, and Systems III*. p. 773728, doi:10.1117/12.857211
- Mollière P., Snellen I. A. G., 2019, *A&A*, 622, A139
- Moór A., et al., 2017, *ApJ*, 849, 123
- Morbidelli A., 2018, *Dynamical Evolution of Planetary Systems*. p. 145, doi:10.1007/978-3-319-55333-7_145
- Mordasini C., Alibert Y., Benz W., 2009a, *A&A*, 501, 1139
- Mordasini C., Alibert Y., Benz W., Naef D., 2009b, *A&A*, 501, 1161
- Mordasini C., Alibert Y., Georgy C., Dittkrist K. M., Klahr H., Henning T., 2012, *A&A*, 547, A112
- Mordasini C., van Boekel R., Mollière P., Henning T., Benneke B., 2016, *ApJ*, 832, 41
- Morley C. V., Skemer A. J., Miles B. E., Line M. R., Lopez E. D., Brogi M., Freedman R. S., Marley M. S., 2019, *ApJ*, 882, L29

- Močnik T., Hellier C., Anderson D. R., Clark B. J. M., Southworth J., 2017, *MNRAS*, 469, 1622
- Muench A. A., Lada C. J., Luhman K. L., Muzerolle J., Young E., 2007, *AJ*, 134, 411
- Mugrauer M., Röhl T., Ginski C., Vogt N., Neuhäuser R., Schmidt T. O. B., 2012, *MNRAS*, 424, 1714
- Müller A., et al., 2018, *A&A*, 617, L2
- Murakami H., et al., 2007, *Publications of the Astronomical Society of Japan*, 59, S369
- Murphy S. J., Bedding T. R., Shibahashi H., 2016, *ApJ*, 827, L17
- Musso Barcucci A., et al., 2019, *A&A*, 627, A77
- Mustill A. J., Davies M. B., Blunt S., Howard A., 2021, arXiv e-prints, p. arXiv:2102.06031
- Muterspaugh M. W., et al., 2010, *AJ*, 140, 1657
- Nagasawa M., Ida S., Bessho T., 2008, *ApJ*, 678, 498
- Naud M.-E., et al., 2014, *ApJ*, 787, 5
- Nelder J. A., Mead R., 1965, *The computer journal*, 7, 308
- Nesvorný D., Kipping D. M., Buchhave L. A., Bakos G. Á., Hartman J., Schmitt A. R., 2012, *Science*, 336, 1133
- Neugebauer G., et al., 1984, *ApJ*, 278, L1
- Neveu-VanMalle M., et al., 2014, *A&A*, 572, A49
- Ngo H., et al., 2015, *ApJ*, 800, 138
- Ngo H., et al., 2016, *ApJ*, 827, 8
- Ngo H., et al., 2017, *AJ*, 153, 242
- Nielsen E. L., et al., 2013, *ApJ*, 776, 4
- Nielsen E. L., et al., 2017, *AJ*, 154, 218
- Nielsen E. L., et al., 2019, *AJ*, 158, 13
- Nowak M., et al., 2020, *A&A*, 642, L2
- Öberg K. I., Bergin E. A., 2021, *Phys. Rep.*, 893, 1
- Öberg K. I., Murray-Clay R., Bergin E. A., 2011, *ApJ*, 743, L16
- Oliphant T. E., 2006, *A guide to NumPy*. Vol. 1, Trelgol Publishing USA
- Ormel C. W., Klahr H. H., 2010, *A&A*, 520, A43
- Paardekooper S. J., Mellema G., 2004, *A&A*, 425, L9
- Pairet B., Cantalloube F., Gomez Gonzalez C. A., Absil O., Jacques L., 2019, *MNRAS*, 487, 2262
- Pairet B., Cantalloube F., Jacques L., 2021, *MNRAS*,
- Papagiannis M. D., 1985, in Papagiannis M. D., ed., , Vol. 112, *The Search for Extraterrestrial Life: Recent Developments*. pp 5–11
- Paterson A. M., 1971, *British Journal for the Philosophy of Science*, 22, 207
- Pecaut M. J., Mamajek E. E., 2013, *ApJS*, 208, 9
- Pecaut M. J., Mamajek E. E., 2016, *MNRAS*, 461, 794
- Pedregosa F., et al., 2012, arXiv e-prints, p. arXiv:1201.0490
- Penny M. T., Gaudi B. S., Kerins E., Rattenbury N. J., Mao S., Robin A. C., Calchi Novati S., 2019, *ApJS*, 241, 3
- Pepe F., et al., 2021, *A&A*, 645, A96

- Pereira C. B., Franco C. S., de Araújo F. X., 2003, *A&A*, 397, 927
- Pérez L. M., Isella A., Carpenter J. M., Chandler C. J., 2014, *ApJ*, 783, L13
- Perryman M., Hartman J., Bakos G. Á., Lindegren L., 2014, *ApJ*, 797, 14
- Peters M. A., et al., 2012, in McLean I. S., Ramsay S. K., Takami H., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 8446, Ground-based and Airborne Instrumentation for Astronomy IV*. p. 84467U (arXiv:1208.3190), doi:10.1117/12.926381
- Petigura E. A., et al., 2016, *ApJ*, 818, 36
- Petigura E. A., et al., 2017, *AJ*, 153, 142
- Petigura E. A., et al., 2018, *AJ*, 156, 89
- Petit C., et al., 2014, in *Adaptive Optics Systems IV*. p. 91480O, doi:10.1117/12.2052847
- Pinilla P., de Juan Ovelar M., Ataiee S., Benisty M., Birnstiel T., van Dishoeck E. F., Min M., 2015, *A&A*, 573, A9
- Pinilla P., Klarmann L., Birnstiel T., Benisty M., Dominik C., Dullemond C. P., 2016, *A&A*, 585, A35
- Pinte C., et al., 2018, *ApJ*, 860, L13
- Podolak M., Zucker S., 2004, *Meteoritics and Planetary Science*, 39, 1859
- Pollacco D. L., et al., 2006, *PASP*, 118, 1407
- Pollack J. B., Hubickyj O., Bodenheimer P., Lissauer J. J., Podolak M., Greenzweig Y., 1996, *Icarus*, 124, 62
- Ponnamperuma C., 1964, *Science Education in the Space Age: Proceedings [of] a National Conference held in Los Angeles*
- Preibisch T., Mamajek E., 2008, *The Nearest OB Association: Scorpius-Centaurus (Sco OB2)*. ASP Monograph Publications, p. 235
- Price D. J., et al., 2018, *MNRAS*, 477, 1270
- Pudritz R. E., Cridland A. J., Alessi M., 2018, *Connecting Planetary Composition with Formation*. p. 144, doi:10.1007/978-3-319-55333-7_144
- Pueyo L., et al., 2012, *ApJS*, 199, 6
- Quanz S. P., et al., 2010, *ApJ*, 722, L49
- Quanz S. P., Crossfield I., Meyer M. R., Schmalzl E., Held J., 2015, *International Journal of Astrobiology*, 14, 279
- Quanz S. P., et al., 2019, arXiv e-prints, p. arXiv:1908.01316
- Quanz S. P., et al., 2021, arXiv e-prints, p. arXiv:2101.07500
- Queloz D., et al., 2010, *A&A*, 517, L1
- Racine R., Walker G. A. H., Nadeau D., Doyon R., Marois C., 1999, *PASP*, 111, 587
- Rafikov R. R., 2005, *ApJ*, 621, L69
- Rafikov R. R., 2011, *ApJ*, 727, 86
- Rameau J., Chauvin G., Lagrange A. M., Thébault P., Milli J., Girard J. H., Bonnefoy M., 2012, *A&A*, 546, A24
- Rameau J., et al., 2013, *The Astrophysical Journal*, 772, L15
- Rameau J., Chauvin G., Lagrange A. M., Maire A. L., Boccaletti A., Bonnefoy M., 2015, *A&A*, 581, A80

- Rapson V. A., Kastner J. H., Andrews S. M., Hines D. C., Macintosh B., Millar-Blanchaer M., Tamura M., 2015, *ApJ*, 803, L10
- Rasio F. A., Ford E. B., 1996, *Science*, 274, 954
- Rauchfuss H., 2008, *Chemical evolution and the origin of life*. Springer Science & Business Media
- Rayner J. T., Cushing M. C., Vacca W. D., 2009, *ApJS*, 185, 289
- Rebolo R., Zapatero Osorio M. R., Madrugá S., Bejar V. J. S., Arribas S., Licandro J., 1998, *Science*, 282, 1309
- Reid I. N., Lewitus E., Burgasser A. J., Cruz K. L., 2006, *ApJ*, 639, 1114
- Rein H., Liu S. F., 2012, *A&A*, 537, A128
- Rein H., Tamayo D., 2015, *MNRAS*, 452, 376
- Rein H., Tamayo D., 2016, *MNRAS*, 459, 2275
- Ren B., Pueyo L., Zhu G. B., Debes J., Duchêne G., 2018, *ApJ*, 852, 104
- Ribas Á., Bouy H., Merín B., 2015, *A&A*, 576, A52
- Ribas I., et al., 2018, *Nature*, 563, 365
- Ricker G. R., et al., 2015, *Journal of Astronomical Telescopes, Instruments, and Systems*, 1, 014003
- Rieke G. H., et al., 2004, *The Astrophysical Journal Supplement Series*, 154, 25
- Robinson T. D., Stapelfeldt K. R., Marley M. S., 2016, *PASP*, 128, 025003
- Rouse W. H. D., Smith M. F., 1924, *Lucretius: On the Nature of Things*. Harvard University Press
- Rousset G., et al., 2003, in Wizinowich P. L., Bonaccini D., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 4839, Adaptive Optical System Technologies II*. pp 140–149, doi:10.1117/12.459332
- Ruane G., et al., 2018, in Lystrup M., MacEwen H. A., Fazio G. G., Batalha N., Siegler N., Tong E. C., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 10698, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave*. p. 106982S (arXiv:1807.07042), doi:10.1117/12.2312948
- Saar S. H., Butler R. P., Marcy G. W., 1998, *ApJ*, 498, L153
- Sagan C., 1982, *Science*, 218, 426
- Sahlmann J., Lazorenko P. F., Ségransan D., Martín E. L., Queloz D., Mayor M., Udry S., 2013, *A&A*, 556, A133
- Samland M., et al., 2017, *A&A*, 603, A57
- Samland M., Bouwman J., Hogg D. W., Brandner W., Henning T., Janson M., 2021, *A&A*, 646, A24
- Schmid H. M., Joos F., Tschan D., 2006, *A&A*, 452, 657
- Schmidt T. O. B., Neuhäuser R., Seifahrt A., Vogt N., Bedalov A., Helling C., Witte S., Hauschildt P. H., 2008, *Astronomy and Astrophysics*, 491, 311
- Schneider J., Dedieu C., Le Sidaner P., Savalle R., Zolotukhin I., 2011, *A&A*, 532, A79
- Schneider G., et al., 2014, *AJ*, 148, 59
- Schwarz H., Ginski C., de Kok R. J., Snellen I. A. G., Brogi M., Birkby J. L., 2016, *A&A*, 593, A74
- Seager S., 2010, *Exoplanets*

- Selsis F., Kaltenegger L., Paillet J., 2008, *Physica Scripta* Volume T, 130, 014032
- Serenelli A. M., Bergemann M., Ruchti G., Casagrande L., 2013, *MNRAS*, 429, 3645
- Sheehan W., 1988, *Planets & perception: telescopic views and interpretations, 1609-1909*. University of Arizona Press
- Sheehan P., 2020, *Nature*, 586, 205
- Sheehan P. D., Tobin J. J., Federman S., Megeath S. T., Looney L. W., 2020, *ApJ*, 902, 141
- Sheppard S. S., Cushing M. C., 2009, *AJ*, 137, 304
- Shuch H. P., 2011, *Searching for Extraterrestrial Intelligence*, doi:10.1007/978-3-642-13196-7.
- Siegler N., Close L. M., Burgasser A. J., Cruz K. L., Marois C., Macintosh B., Barman T., 2007, *AJ*, 133, 2320
- Silburt A., Gaidos E., Wu Y., 2015, *ApJ*, 799, 180
- Silvotti R., et al., 2007, *Nature*, 449, 189
- Sinukoff E., et al., 2016, *ApJ*, 827, 78
- Smette A., et al., 2015, *A&A*, 576, A77
- Smith B. A., Terile R. J., 1984, *Science*, 226, 1421
- Smith A. M. S., et al., 2013, *A&A*, 552, A120
- Smith A. M. S., et al., 2017, *MNRAS*, 464, 2708
- Snellen I. A. G., Brandl B. R., de Kok R. J., Brogi M., Birkby J., Schwarz H., 2014, *Nature*, 509, 63
- Snik F., Otten G., Kenworthy M., Miskiewicz M., Escuti M., Packham C., Codona J., 2012, in Navarro R., Cunningham C. R., Prieto E., eds, *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series Vol. 8450, Modern Technologies in Space- and Ground-based Telescopes and Instrumentation II*. p. 84500M (arXiv:1207.2970), doi:10.1117/12.926222
- Socrates A., Katz B., Dong S., Tremaine S., 2012, *ApJ*, 750, 106
- Soderblom D. R., Jones B. F., Balachandran S., Stauffer J. R., Duncan D. K., Fedele S. B., Hudon J. D., 1993, *AJ*, 106, 1059
- Soumer R., 2005, *ApJ*, 618, L161
- Soumer R., Aime C., Falloon P. E., 2003, *A&A*, 397, 1161
- Soumer R., Hagan J. B., Pueyo L., Thormann A., Rajan A., Marois C., 2011, *ApJ*, 741, 55
- Soumer R., Pueyo L., Larkin J., 2012, *ApJ*, 755, L28
- Soumer R., et al., 2014, *ApJ*, 786, L23
- Southworth J., 2011, *MNRAS*, 417, 2166
- Southworth J., 2012, *MNRAS*, 426, 1291
- Southworth J., et al., 2013, *MNRAS*, 434, 1300
- Southworth J., Bohn A. J., Kenworthy M. A., Ginski C., Mancini L., 2020, *A&A*, 635, A74
- Sparks W. B., Ford H. C., 2002, *ApJ*, 578, 543
- Spergel D., et al., 2015, arXiv e-prints, p. arXiv:1503.03757
- Stevenson D. J., Lunine J. I., 1988, *Icarus*, 75, 146
- Stolker T., et al., 2016, *A&A*, 595, A113
- Stolker T., Bonse M. J., Quanz S. P., Amara A., Cugno G., Bohn A. J., Boehle A., 2019, *A&A*, 621, A59

- Stolker T., et al., 2020a, *A&A*, 635, A182
- Stolker T., Marleau G. D., Cugno G., Mollière P., Quanz S. P., Todorov K. O., Kühn J., 2020b, *A&A*, 644, A13
- Strom K. M., Strom S. E., Edwards S., Cabrit S., Skrutskie M. F., 1989, *AJ*, 97, 1451
- Sumi T., et al., 2011, *Nature*, 473, 349
- Teague R., Bae J., Bergin E. A., Birnstiel T., Foreman-Mackey D., 2018, *ApJ*, 860, L12
- Tetzlaff N., Neuhäuser R., Hohle M. M., 2011, *MNRAS*, 410, 190
- The LUVUOIR Team 2019, arXiv e-prints, p. arXiv:1912.06219
- Tilling I., et al., 2012, *A&A*, 538, A20
- Tipler F. J., 1981, *QJRAS*, 22, 133
- Todorov K., Luhman K. L., McLeod K. K., 2010, *ApJ*, 714, L84
- Torres C. A. O., Quast G. R., da Silva L., de La Reza R., Melo C. H. F., Sterzik M., 2006, *A&A*, 460, 695
- Trauger J., Moody D., Krist J., Gordon B., 2016, *Journal of Astronomical Telescopes, Instruments, and Systems*, 2, 011013
- TriAUD A. H. M. J., et al., 2013a, *A&A*, 549, A18
- TriAUD A. H. M. J., et al., 2013b, *A&A*, 551, A80
- Trilling D. E., Brown R. H., 1998, *Nature*, 395, 775
- Tuomi M., Kotiranta S., Kaasalainen M., 2009, *A&A*, 494, 769
- Turner O. D., et al., 2016, *PASP*, 128, 064401
- Udry S., Santos N. C., 2007, *ARA&A*, 45, 397
- Van Eylen V., et al., 2016, *AJ*, 152, 143
- Van der Walt S., Schönberger J. L., Nunez-Iglesias J., Boulogne F., Warner J. D., Yager N., Gouillart E., Yu T., 2014, *PeerJ*, 2, e453
- Vanderburg A., et al., 2015, *ApJ*, 800, 59
- Vanderburg A., et al., 2020, *Nature*, 585, 363
- Varosi F., Gezari D. Y., 1993, in *Astronomical Data Analysis Software and Systems II*. p. 393
- Varvoglis H., Sgardeli V., Tsiganis K., 2012, *Celestial Mechanics and Dynamical Astronomy*, 113, 387
- Veras D., Crepp J. R., Ford E. B., 2009, *ApJ*, 696, 1600
- Vernet J., et al., 2011, *A&A*, 536, A105
- Vigan A., Moutou C., Langlois M., Allard F., Boccaletti A., Carbillet M., Mouillet D., Smith I., 2010, *MNRAS*, 407, 71
- Vigan A., et al., 2012, *A&A*, 544, A9
- Vigan A., et al., 2017, *A&A*, 603, A3
- Vigan A., et al., 2020, arXiv e-prints, p. arXiv:2007.06573
- Virtanen P., et al., 2020, *Nature Methods*, 17, 261
- Voges W., et al., 1999, *A&A*, 349, 389
- Wagner K., et al., 2018, *ApJ*, 863, L8
- Wahhaj Z., et al., 2015, *A&A*, 581, A24
- Wahhaj Z., et al., 2021, *A&A*, 648, A26

- Wang J. J., et al., 2016, *AJ*, 152, 97
- Wang J. J., et al., 2018, *AJ*, 156, 192
- Wang J. J., et al., 2020, *AJ*, 159, 263
- Wang J. J., et al., 2021, *AJ*, 161, 148
- Wenger M., et al., 2000, *A&AS*, 143, 9
- Werner M. W., et al., 2004, *The Astrophysical Journal Supplement Series*, 154, 1
- Wertz O., Absil O., Gómez González C. A., Milli J., Girard J. H., Mawet D., Pueyo L., 2017, *A&A*, 598, A83
- White R. J., Basri G., 2003, *ApJ*, 582, 1109
- Winn J. N., Fabrycky D., Albrecht S., Johnson J. A., 2010, *ApJ*, 718, L145
- Wolff S. G., et al., 2016, *ApJ*, 818, L15
- Wöllert M., Brandner W., 2015, *A&A*, 579, A129
- Wöllert M., Brandner W., Bergfors C., Henning T., 2015, *A&A*, 575, A23
- Wolszczan A., 1994, *Science*, 264, 538
- Wolszczan A., Frail D. A., 1992, *Nature*, 355, 145
- Worden S. P., et al., 2017, *Acta Astronautica*, 139, 98
- Wray J. D., 1966, *AJ*, 71, 403
- Wright J. T., Gaudi B. S., 2013, *Exoplanet Detection Methods*. p. 489, doi:10.1007/978-94-007-5606-9_10
- Wu Y., Lithwick Y., 2011, *ApJ*, 735, 109
- Wu Y., Murray N., 2003, *ApJ*, 589, 605
- Wyatt M. C., Dent W. R. F., Greaves J. S., 2003, *MNRAS*, 342, 876
- Wytenbach A., Ehrenreich D., Lovis C., Udry S., Pepe F., 2015, *A&A*, 577, A62
- Yang H., et al., 2016, *ApJ*, 826, 8
- Yates F., 1964, *The University Of Chicago Press*, Chicago
- Zacharias N., Monet D. G., Levine S. E., Urban S. E., Gaume R., Wycoff G. L., 2005, *VizieR Online Data Catalog*, p. I/297
- Zacharias N., Finch C. T., Girard T. M., Henden A., Bartlett J. L., Monet D. G., Zacharias M. I., 2013, *AJ*, 145, 44
- Zari E., Hashemi H., Brown A. G. A., Jardine K., de Zeeuw P. T., 2018, *A&A*, 620, A172
- Zhou Y., Apai D., Schneider G. H., Marley M. S., Showman A. P., 2016, *ApJ*, 818, 176
- Zhu Z., Hartmann L., Nelson R. P., Gammie C. F., 2012, *ApJ*, 746, 110
- Zimmerman N. T., Eldorado Riggs A. J., Jeremy Kasdin N., Carlotti A., Vanderbei R. J., 2016, *Journal of Astronomical Telescopes, Instruments, and Systems*, 2, 011012
- Zuckerman B., Rhee J. H., Song I., Bessell M. S., 2011, *ApJ*, 732, 61
- Zurlo A., et al., 2016, *A&A*, 587, A57
- de Boer J., et al., 2016, *A&A*, 595, A114
- de Boer J., et al., 2020, *A&A*, 633, A63
- de Zeeuw P. T., Hoogerwerf R., de Bruijne J. H. J., Brown A. G. A., Blaauw A., 1999, *AJ*, 117, 354
- van Holstein R. G., et al., 2020, *A&A*, 633, A64
- van Terwisga S. E., et al., 2018, *A&A*, 616, A88