

boldface = first or lead author    ★ = (co-)supervised first author

## Peer-Reviewed Journal Articles (Published or in Press)

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### 2023

- [175] Allart, R., Lemée-Joliecoeur, P. B., Jaziri, A. Y., et al. (2023). Homogeneous search for helium in the atmosphere of 11 gas giant exoplanets with SPIRou. *arXiv e-prints* arXiv:2307.05580
- [174] Blunt, S., Carvalho, A., David, T. J., et al. (2023). Overfitting Affects the Reliability of Radial Velocity Mass Estimates of the V1298 Tau Planets. *arXiv e-prints* arXiv:2306.08145
- [173] ★Gehrig, L., Gaidos, E., and Güdel, M. (2023). The post-disk (or primordial) spin distribution of M dwarf stars. *arXiv e-prints* arXiv:2306.02657
- [172] Donati, J. F., Cristofari, P. I., Finocietty, B., et al. (2023). The magnetic field and multiple planets of the young dwarf AU Mic. *Monthly Notices of the Royal Astronomical Society*
- [171] Boucher, A., Lafrenière, D., Pelletier, S., et al. (2023). CO or no CO? Narrowing the CO abundance constraint and recovering the H<sub>2</sub>O detection in the atmosphere of WASP-127 b using SPIRou. *Monthly Notices of the Royal Astronomical Society* 522 (4):5062–5083
- [170] Vannier, P., Farrant, G. K., Klonowski, A., et al. (2023). Metagenomic analyses of a microbial assemblage in a subglacial lake beneath the vatnajökull ice cap, iceland. *Frontiers in Microbiology* 14
- [169] Sullivan, K., Kraus, A. L., Huber, D., et al. (2023). Revising Properties of Planet-Host Binary Systems. III. There Is No Observed Radius Gap for Kepler Planets in Binary Star Systems. *The Astronomical Journal* 165 (4):177
- [168] Fouqué, P., Martioli, E., Donati, J. F., et al. (2023). The SPIRou legacy survey. Rotation period of quiet M dwarfs from circular polarization in near-infrared spectral lines: The SPIRou APERO analysis. *Astronomy & Astrophysics* 672:A52
- [167] Krishnamurthy, V., Hirano, T., Gaidos, E., et al. (2023). Absence of extended atmospheres in low-mass star radius-gap planets. *Monthly Notices of the Royal Astronomical Society* 521 (1):1210–1220
- [166] Brinkman, C. L., Cadman, J., Weiss, L., et al. (2023). Kepler-102: Masses and Compositions for a Super-Earth and Sub-Neptune Orbiting an Active Star. *The Astronomical Journal* 165 (2):74
- [165] Banzatti, A., Pontoppidan, K. M., Péré Chávez, J., et al. (2023). The Kinematics and Excitation of Infrared Water Vapor Emission from Planet-forming Disks: Results from Spectrally Resolved Surveys and Guidelines for JWST Spectra. *The Astronomical Journal* 165 (2):72
- [164] **Gaidos, E., Claytor, Z., Dungee, R., et al. (2023). The TIME Table: rotation and ages of cool exoplanet host stars. *Monthly Notices of the Royal Astronomical Society* 520 (4):5283–5304**
- [163] **Gaidos, E., Hirano, T., Lee, R. A., et al. (2023). Planet(esimal)s around stars with TESS (PAST) III: A search for triplet He I in the atmospheres of two 200 Myr-old planets. *Monthly Notices of the Royal Astronomical Society* 518 (3):3777–3783**
- [162] El Mufti, M., Plavchan, P. P., Isaacson, H., et al. (2023). TOI 560: Two Transiting Planets Orbiting a K Dwarf Validated with iSHELL, PFS, and HIRES RVs. *The Astronomical Journal* 165 (1):10
- [161] Kiefer, F., Hébrard, G., Martioli, E., et al. (2023). A sub-Neptune planet around TOI-1695 discovered and characterized with SPIRou and TESS. *Astronomy & Astrophysics* 670:A136

### 2022

- [160] Gilbert, E. A., Barclay, T., Quintana, E. V., et al. (2022). Flares, Rotation, and Planets of the AU Mic System from TESS Observations. *The Astronomical Journal* 163 (4):147
- [159] ★Dunee, R., van Saders, J., Gaidos, E., et al. (2022). A 4 Gyr M-dwarf Gyrochrone from CFHT/MegaPrime Monitoring of the Open Cluster M67. *The Astrophysical Journal* 938 (2):118
- [158] Miyakawa, K., Hirano, T., Sato, B., et al. (2022). Color Dependence of the Transit Detectability of Young Active M Dwarfs. *The Astronomical Journal* 164 (5):209
- [157] Liu, M. C., Magnier, E. A., Zhang, Z., et al. (2022). On the Unusual Variability of 2MASS J06195260-2903592: A Long-lived Disk around a Young Ultracool Dwarf. *The Astronomical Journal* 164 (4):165
- [156] Feinstein, A. D., France, K., Youngblood, A., et al. (2022). AU Microscopii in the Far-UV: Observations in Quiescence, during Flares, and Implications for AU Mic b and c. *The Astronomical Journal* 164 (3):110
- [155] Cristofari, P. I., Donati, J. F., Masseron, T., et al. (2022). Estimating the atmospheric properties of 44 M dwarfs from SPIRou spectra. *Monthly Notices of the Royal Astronomical Society* 516 (3):3802–3820
- [154] ★Berger, T. A., van Saders, J. L., Huber, D., et al. (2022). Is [Y/Mg] a Reliable Age Diagnostic for FGK Stars? *The Astrophysical Journal* 936 (2):100
- [153] **Gaidos, E., Mann, A. W., Rojas-Ayala, B., et al. (2022). Planetesimals around stars with TESS (PAST) - II. An M dwarf 'dipper' star with a long-lived disc in the TESS continuous viewing zone. *Monthly Notices of the Royal Astronomical Society* 514 (1):1386–1402**
- [152] Wittrock, J. M., Dreizler, S., Reefe, M. A., et al. (2022). Transit Timing Variations for AU Microscopii b and c. *The Astronomical Journal* 164 (1):27
- [151] ★Reefe, M. A., Luque, R., Gaidos, E., et al. (2022). A Close-in Puffy Neptune with Hidden Friends: The Enigma of TOI 620. *The Astronomical Journal* 163 (6):269
- [150] Cristofari, P. I., Donati, J. F., Masseron, T., et al. (2022). Estimating fundamental parameters of nearby M dwarfs from SPIRou spectra. *Monthly Notices of the Royal Astronomical Society* 511 (2):1893–1912
- [149] **Gaidos, E., Hirano, T., Beichman, C., et al. (2022). Zodiacal exoplanets in time - XIII. Planet orbits and atmospheres in the V1298 Tau system, a keystone in studies of early planetary evolution. *Monthly Notices of the Royal Astronomical Society* 509 (2):2969–2978**

## 2021

- [148] **Gaidos, E., Hirano, T., Kraus, A. L., et al. (2021). Zodiacal Exoplanets in Time (ZEIT) XII: A Directly-Imaged Planetary-Mass Companion to a Young Taurus M Dwarf Star. *Monthly Notices of the Royal Astronomical Society***
- [147] Cale, B. L., Reefe, M., Plavchan, P., et al. (2021). Diving Beneath the Sea of Stellar Activity: Chromatic Radial Velocities of the Young AU Mic Planetary System. *The Astronomical Journal* 162 (6):295
- [146] Hirano, T., Livingston, J. H., Fukui, A., et al. (2021). Two Bright M Dwarfs Hosting Ultra-Short-Period Super-Earths with Earth-like Compositions. *The Astronomical Journal* 162 (4):161
- [145] Addison, B. C., Horner, J., Wittenmyer, R. A., et al. (2021). The Youngest Planet to Have a Spin-Orbit Alignment Measurement AU Mic b. *The Astronomical Journal* 162 (4):137
- [144] Miyakawa, K., Hirano, T., Fukui, A., et al. (2021). Wavelength Dependence of Activity-induced Photometric Variations for Young Cool Stars in Hyades. *The Astronomical Journal* 162 (3):104
- [143] Krishnamurthy, V., Hirano, T., Stefánsson, G., et al. (2021). Nondetection of Helium in the Upper Atmospheres of TRAPPIST-1b, e, and f. *The Astronomical Journal* 162 (3):82
- [142] Torres, G., Vanderburg, A., Curtis, J. L., et al. (2021). Eclipsing Binaries in the Open Cluster Ruprecht 147. IV: The Active Triple System EPIC 219511354. *The Astrophysical Journal* 921 (2):133

- [141] Boucher, A., Darveau-Bernier, A., Pelletier, S., et al. (2021). Characterizing Exoplanetary Atmospheres at High Resolution with SPIRou: Detection of Water on HD 189733 b. *The Astronomical Journal* 162 (6):233
- [140] ★ Chao, K.-H., deGraffenried, R., Lach, M., et al. (2021). Lava worlds: From early earth to exoplanets. *Chemie der Erde / Geochemistry* 81 (2):125735
- [139] ★Pineci, A., Sadowski, P., Gaidos, E., et al. (2021). Proxy-based Prediction of Solar Extreme Ultraviolet Emission Using Deep Learning. *The Astrophysical Journal Letters* 910 (2):L25
- [138] Osborn, A., Armstrong, D. J., Cale, B., 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. *Monthly Notices of the Royal Astronomical Society*
- [137] Klein, B., Donati, J.-F., Moutou, C., et al. (2021). Investigating the young AU Mic system with SPIRou: large-scale stellar magnetic field and close-in planet mass. *Monthly Notices of the Royal Astronomical Society* 502 (1):188–205

## 2020

- [136] Gaidos, E., Jóhannesson, T., Einarsson, B., et al. (2020). Après Nous, le Déluge: A Human-Triggered Jökulhlaup From a Subglacial Lake. *Geophysical Research Letters* 47 (22):e89876
- [135] Gaidos, E., Hirano, T., Wilson, D. J., et al. (2020). Zodiacal exoplanets in time - XI. The orbit and radiation environment of the young M dwarf-hosted planet K2-25b. *Monthly Notices of the Royal Astronomical Society* 498 (1):L119–L124
- [134] Gaidos, E., Hirano, T., Mann, A. W., et al. (2020). Zodiacal exoplanets in time - X. The orbit and atmosphere of the young 'neptune desert'-dwelling planet K2-100b. *Monthly Notices of the Royal Astronomical Society* 495 (1):650–662
- [133] Hirano, T., Gaidos, E., Winn, J. N., et al. (2020). Evidence for Spin-Orbit Alignment in the TRAPPIST-1 System. *The Astrophysical Journal Letters* 890 (2):L27
- [132] Ansdell, M., Gaidos, E., Hedges, C., et al. (2020). Are inner disc misalignments common? ALMA reveals an isotropic outer disc inclination distribution for young dipper stars. *Monthly Notices of the Royal Astronomical Society* 492 (1):572–588
- [131] Hirano, T., Krishnamurthy, V., Gaidos, E., et al. (2020). Limits on the Spin-Orbit Angle and Atmospheric Escape for the 22 Myr Old Planet AU Mic b. *The Astrophysical Journal Letters* 899 (1):L13
- [130] ★ Berger, T. A., Huber, D., Gaidos, E., et al. (2020). The Gaia-Kepler Stellar Properties Catalog. II. Planet Radius Demographics as a Function of Stellar Mass and Age. *The Astronomical Journal* 160 (3):108
- [129] ★ Bredall, J. W., Shappee, B. J., Gaidos, E., et al. (2020). The ASAS-SN catalogue of variable stars – VIII. 'Dipper' stars in the Lupus star-forming region. *Monthly Notices of the Royal Astronomical Society* 496 (3):3257–3269
- [128] Dreizler, S., Crossfield, I. J. M., Kossakowski, D., et al. (2020). The CARMENES search for exoplanets around M dwarfs. LP 714-47 b (TOI 442.01): populating the Neptune desert. *Astronomy & Astrophysics* 644:A127
- [127] Nowak, G., Luque, R., Parviainen, H., et al. (2020). The CARMENES search for exoplanets around M dwarfs. Two planets on opposite sides of the radius gap transiting the nearby M dwarf LTT 3780. *Astronomy & Astrophysics* 642:A173
- [126] Hirano, T., Kuzuhara, M., Kotani, T., et al. (2020). Precision radial velocity measurements by the forward-modeling technique in the near-infrared. *Proceedings of the Astronomical Society of Japan*
- [125] Martioli, E., Hébrard, G., Moutou, C., et al. (2020). Spin-orbit alignment and magnetic activity in the young planetary system AU Mic. *Astronomy & Astrophysics* 641:L1
- [124] Palle, E., Oshagh, M., Casasayas-Barris, N., et al. (2020). Transmission spectroscopy and Rossiter-McLaughlin measurements of the young Neptune orbiting AU Mic. *Astronomy & Astrophysics* 643:A25

- [123] Plavchan, P., Barclay, T., Gagné, J., et al. (2020). A planet within the debris disk around the pre-main-sequence star AU Microscopii. *Nature* 582 (7813):497–500
- [122] Bedding, T. R., Murphy, S. J., Hey, D. R., et al. (2020). Very regular high-frequency pulsation modes in young intermediate-mass stars. *Nature* 581 (7807):147–151
- [121] Bluhm, P., Luque, R., Espinoza, N., et al. (2020). Precise mass and radius of a transiting super-Earth planet orbiting the M dwarf TOI-1235: a planet in the radius gap? *Astronomy & Astrophysics* 639:A132
- [120] ★ Berger, T. A., Huber, D., van Saders, J. L., et al. (2020). The Gaia-Kepler Stellar Properties Catalog. I. Homogeneous Fundamental Properties for 186,301 Kepler Stars. *The Astronomical Journal* 159 (6):280
- [119] Thao, P. C., Mann, A. W., Johnson, M. C., et al. (2020). Zodiacal Exoplanets in Time (ZEIT). IX. A Flat Transmission Spectrum and a Highly Eccentric Orbit for the Young Neptune K2-25b as Revealed by Spitzer. *The Astronomical Journal* 159 (1):32

## 2019

- [118] **Gaidos, E., Jacobs, T., LaCourse, D., et al. (2019). Planetesimals around stars with TESS (PAST) - I. Transient dimming of a binary solar analogue at the end of the planet accretion era. *Monthly Notices of the Royal Astronomical Society* 488 (4):4465–4476**
- [117] **Gaidos, E., Hirano, T., and Ansdell, M. (2019). Monitoring of the D doublet of neutral sodium during transits of two ‘evaporating’ planets. *Monthly Notices of the Royal Astronomical Society* 485 (3):3876–3886**
- [116] Ansdell, M., Gaidos, E., Jacobs, T. L., et al. (2019). The little dippers: transits of star-grazing exocomets? *Monthly Notices of the Royal Astronomical Society* 483 (3):3579–3591
- [115] ★ Grunblatt, S. K., Huber, D., Gaidos, E., et al. (2019). Giant Planet Occurrence within 0.2 au of Low-luminosity Red Giant Branch Stars with K2. *The Astronomical Journal* 158 (6):227
- [114] Cale, B., Plavchan, P., LeBrun, D., et al. (2019). Precise Radial Velocities of Cool Low-mass Stars with iSHELL. *The Astronomical Journal* 158 (5):170
- [113] Huber, D., Chaplin, W. J., Chontos, A., et al. (2019). A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. *The Astronomical Journal* 157 (6):245
- [112] Mann, A. W., Dupuy, T., Kraus, A. L., et al. (2019). How to Constrain Your M Dwarf. II. The Mass-Luminosity-Metallicity Relation from 0.075 to 0.70 Solar Masses. *The Astrophysical Journal* 871 (1):63

## 2018

- [111] **Gaidos, E. (2018). What and whence 1I/‘Oumuamua: a contact binary from the debris of a young planetary system? *Monthly Notices of the Royal Astronomical Society* 477 (4):5692–5699**
- [110] Kite, E. S., Gaidos, E., and Onstott, T. C. (2018). Valuing Life-Detection Missions. *Astrobiology* 18 (7):834–840
- [109] ★ Berger, T. A., Huber, D., Gaidos, E., et al. (2018). Revised Radii of Kepler Stars and Planets Using Gaia Data Release 2. *The Astrophysical Journal* 866 (2):99
- [108] ★ Grunblatt, S. K., Huber, D., Gaidos, E., et al. (2018). Do Close-in Giant Planets Orbiting Evolved Stars Prefer Eccentric Orbits? *The Astrophysical Journal Letters* 861 (1):L5
- [107] Kempton, E. M. R., Bean, J. L., Louie, D. R., et al. (2018). A Framework for Prioritizing the TESS Planetary Candidates Most Amenable to Atmospheric Characterization. *Publications of the Astronomical Society of the Pacific* 130 (993):114401
- [106] Ansdell, M., Oelkers, R. J., Rodriguez, J. E., et al. (2018). Identification of young stellar variables with KELT for K2 - II. The Upper Scorpius association. *Monthly Notices of the Royal Astronomical Society* 473 (1):1231–1243

## 2017

- [105] Gaidos, E. (2017). A minimum mass nebula for M dwarfs. *Monthly Notices of the Royal Astronomical Society* 470 (1):L1–L5
- [104] Gaidos, E. (2017). Transit detection of a ‘starshade’ at the inner lagrange point of an exoplanet. *Monthly Notices of the Royal Astronomical Society* 469 (4):4455–4464
- [103] Gaidos, E., Kitzmann, D., and Heng, K. (2017). Exoplanet characterization by multi-observatory transit photometry with TESS and CHEOPS. *Monthly Notices of the Royal Astronomical Society* 468 (3):3418–3427
- [102] Gaidos, E., Mann, A. W., Rizzuto, A., et al. (2017). Zodiacal exoplanets in time (ZEIT) - II. A ‘super-Earth’ orbiting a young K dwarf in the Pleiades Neighbourhood. *Monthly Notices of the Royal Astronomical Society* 464 (1):850–862
- [101] Fridlund, M., Gaidos, E., Barragán, O., et al. (2017). K2-111 b - a short period super-Earth transiting a metal poor, evolved old star. *Astronomy & Astrophysics* 604:A16
- [100] Mann, A. W., Gaidos, E., Vanderburg, A., et al. (2017). Zodiacal Exoplanets in Time (ZEIT). IV. Seven Transiting Planets in the Praesepe Cluster. *The Astronomical Journal* 153 (2):64
- [99] Grunblatt, S. K., Huber, D., Gaidos, E., et al. (2017). Seeing Double with K2: Testing Re-inflation with Two Remarkably Similar Planets around Red Giant Branch Stars. *The Astronomical Journal* 154 (6):254
- [98] Rodriguez, J. E., Ansdell, M., Oelkers, R. J., et al. (2017). Identification of Young Stellar Variables with KELT for K2. I. Taurus Dippers and Rotators. *The Astrophysical Journal* 848 (2):97
- [97] Schonhut-Stasik, J. S., Baranec, C., Huber, D., et al. (2017). Robo-AO Kepler Asteroseismic Survey. I. Adaptive Optics Imaging of 99 Asteroseismic Kepler Dwarfs and Subgiants. *The Astrophysical Journal* 847 (2):97
- [96] Kraus, A. L., Douglas, S. T., Mann, A. W., et al. (2017). The Factory and the Beehive. III. PTFEB132.707+19.810, A Low-mass Eclipsing Binary in Praesepe Observed by PTF and K2. *The Astrophysical Journal* 845 (1):72
- [95] Fichtinger, B., Güdel, M., Mutel, R. L., et al. (2017). Radio emission and mass loss rate limits of four young solar-type stars. *Astronomy & Astrophysics* 599:A127
- [94] Rodriguez, J. E., Zhou, G., Cargile, P. A., et al. (2017). The Mysterious Dimmings of the T Tauri Star V1334 Tau. *The Astrophysical Journal* 836 (2):209
- [93] Einarsson, B., Jóhannesson, T., THorsteinsson, T., et al. (2017). Subglacial flood path development during a rapidly rising jökulhlaup from the western skaftá cauldron, vatnajökull, iceland. *Journal of Glaciology* 63 (240):670–682

## 2016

- [92] Gaidos, E., Mann, A. W., Kraus, A. L., et al. (2016). They are small worlds after all: revised properties of Kepler M dwarf stars and their planets. *Monthly Notices of the Royal Astronomical Society* 457 (3):2877–2899
- [91] Gaidos, E., Mann, A. W., and Ansdell, M. (2016). The Enigmatic and Ephemeral M Dwarf System KOI 6705: Cheshire Cat or Wild Goose? *The Astrophysical Journal* 817 (1):50
- [90] ★ Ansdell, M., Gaidos, E., Williams, J. P., et al. (2016). Dipper discs not inclined towards edge-on orbits. *Monthly Notices of the Royal Astronomical Society* 462 (1):L101–L105
- [89] Mann, A. W., Gaidos, E., Mace, G. N., et al. (2016). Zodiacal Exoplanets in Time (ZEIT). I. A Neptune-sized Planet Orbiting an M4.5 Dwarf in the Hyades Star Cluster. *The Astrophysical Journal* 818 (1):46
- [88] ★ Ansdell, M., Gaidos, E., Rappaport, S. A., et al. (2016). Young “Dipper” Stars in Upper Sco and Oph Observed by K2. *The Astrophysical Journal* 816 (2):69

- [87] Grunblatt, S. K., Huber, D., Gaidos, E. J., et al. (2016). K2-97b: A (Re-?)Inflated Planet Orbiting a Red Giant Star. *The Astronomical Journal* 152 (6):185
- [86] Kite, E. S., Fegley, J., Bruce, Schaefer, L., et al. (2016). Atmosphere-interior Exchange on Hot, Rocky Exoplanets. *The Astrophysical Journal* 828 (2):80
- [85] Mann, A. W., Newton, E. R., Rizzuto, A. C., et al. (2016). Zodiacal Exoplanets in Time (ZEIT). III. A Short-period Planet Orbiting a Pre-main-sequence Star in the Upper Scorpius OB Association. *The Astronomical Journal* 152 (3):61
- [84] Hirano, T., Fukui, A., Mann, A. W., et al. (2016). The K2-ESPRINT Project III: A Close-in Super-Earth around a Metal-rich Mid-M Dwarf. *The Astrophysical Journal* 820 (1):41

## 2015

- [83] Sanchis-Ojeda, R., Rappaport, S., Pallè, E., et al. (2015). The K2-ESPRINT Project I: Discovery of the Disintegrating Rocky Planet K2-22b with a Cometary Head and Leading Tail. *The Astrophysical Journal* 812 (2):112
- [82] Mann, A. W., Feiden, G. A., Gaidos, E., et al. (2015). How to Constrain Your M Dwarf: Measuring Effective Temperature, Bolometric Luminosity, Mass, and Radius. *The Astrophysical Journal* 804 (1):64
- [81] **Gaidos, E. (2015). What Are Little Worlds Made Of? Stellar Abundances and the Building Blocks of Planets. *The Astrophysical Journal* 804 (1):40**
- [80] Muirhead, P. S., Mann, A. W., Vanderburg, A., et al. (2015). Kepler-445, Kepler-446 and the Occurrence of Compact Multiples Orbiting Mid-M Dwarf Stars. *The Astrophysical Journal* 801 (1):18
- [79] ★ Silburt, A., Gaidos, E., and Wu, Y. (2015). A Statistical Reconstruction of the Planet Population around Kepler Solar-type Stars. *The Astrophysical Journal* 799 (2):180
- [78] ★ Ansdell, M., Gaidos, E., Mann, A. W., et al. (2015). The Near-ultraviolet Luminosity Function of Young, Early M-type Dwarf Stars. *The Astrophysical Journal* 798 (1):41

## 2014

- [77] **Gaidos, E., Mann, A. W., Lépine, S., et al. (2014). Trumpeting M dwarfs with CONCH-SHELL: a catalogue of nearby cool host-stars for habitable exoplanets and life. *Monthly Notices of the Royal Astronomical Society* 443 (3):2561–2578**
- [76] **Gaidos, E. and Mann, A. W. (2014). M Dwarf Metallicities and Giant Planet Occurrence: Ironing Out Uncertainties and Systematics. *The Astrophysical Journal* 791 (1):54**
- [75] **Gaidos, E., Anderson, D. R., Lépine, S., et al. (2014). Trawling for transits in a sea of noise: a search for exoplanets by analysis of WASP optical light curves and follow-up (SEAWOLF). *Monthly Notices of the Royal Astronomical Society* 437 (4):3133–3143**
- [74] ★ Mann, A. W., Deacon, N. R., Gaidos, E., et al. (2014). Prospecting in Ultracool Dwarfs: Measuring the Metallicities of Mid- and Late-M Dwarfs. *The Astronomical Journal* 147 (6):160
- [73] Huber, D., Silva Aguirre, V., Matthews, J. M., et al. (2014). Revised Stellar Properties of Kepler Targets for the Quarter 1-16 Transit Detection Run. *The Astrophysical Journal Supplement Series* 211 (1):2

## 2013

- [72] ★ **Sinukoff, E., Fulton, B., Scuderi, L., et al. (2013). Below One Earth: The Detection, Formation, and Properties of Subterrestrial Worlds. *Space Science Reviews* 180 (1-4):71–99**
- [71] **Gaidos, E., Fischer, D. A., Mann, A. W., et al. (2013). An Understanding of the Shoulder of Giants: Jovian Planets around Late K Dwarf Stars and the Trend with Stellar Mass. *The Astrophysical Journal* 771 (1):18**

- [70] Gaidos, E. (2013). Candidate Planets in the Habitable Zones of Kepler Stars. *The Astrophysical Journal* 770 (2):90
- [69] Gaidos, E. and Mann, A. W. (2013). Objects in Kepler's Mirror May be Larger Than They Appear: Bias and Selection Effects in Transiting Planet Surveys. *The Astrophysical Journal* 762 (1):41
- [68] Marteinson, V. J., Rúnarsson, A., Stefánsson, A., et al. (2013). Microbial communities in the subglacial waters of the Vatnajökull ice cap. *ISME Journal* 7:427–437
- [67] ★ Mann, A. W., Gaidos, E., and Ansdell, M. (2013). Spectro-thermometry of M Dwarfs and Their Candidate Planets: Too Hot, Too Cool, or Just Right? *The Astrophysical Journal* 779 (2):188
- [66] ★ Colón, K. D. and Gaidos, E. (2013). Narrow-K-band Observations of the GJ 1214 System. *The Astrophysical Journal* 776 (1):49
- [65] ★ Mann, A. W., Gaidos, E., Kraus, A., et al. (2013). Testing the Metal of Late-type Kepler Planet Hosts with Iron-clad Methods. *The Astrophysical Journal* 770 (1):43
- [64] ★ van Summeren, J., Gaidos, E., and Conrad, C. P. (2013). Magnetodynamo lifetimes for rocky, Earth-mass exoplanets with contrasting mantle convection regimes. *Journal of Geophysical Research (Planets)* 118 (5):938–951
- [63] ★ Rusch, A. and Gaidos, E. (2013). Nitrogen-cycling bacteria and archaea in the carbonate sediment of a coral reef. *Geobiology* 11 (5):472–484
- [62] ★ Mann, A. W., Brewer, J. M., Gaidos, E., et al. (2013). Prospecting in Late-type Dwarfs: A Calibration of Infrared and Visible Spectroscopic Metallicities of Late K and M Dwarfs Spanning 1.5 dex. *The Astronomical Journal* 145 (2):52
- [61] Lépine, S., Hilton, E. J., Mann, A. W., et al. (2013). A Spectroscopic Catalog of the Brightest (J < 9) M Dwarfs in the Northern Sky. *The Astronomical Journal* 145 (4):102

## 2012

- [60] Gaidos, E., Fischer, D. A., Mann, A. W., et al. (2012). On the Nature of Small Planets around the Coolest Kepler Stars. *The Astrophysical Journal* 746 (1):36
- [59] Nittler, L. R. and Gaidos, E. (2012). Galactic chemical evolution and the oxygen isotopic composition of the solar system. *Meteoritics and Planetary Science* 47 (12):2031–2048
- [58] ★ Mann, A. W., Gaidos, E., Lépine, S., et al. (2012). They Might be Giants: Luminosity Class, Planet Occurrence, and Planet-Metallicity Relation of the Coolest Kepler Target Stars. *The Astrophysical Journal* 753 (1):90
- [57] Fischer, D. A., Gaidos, E., Howard, A. W., et al. (2012). M2K. II. A Triple-planet System Orbiting HIP 57274. *The Astrophysical Journal* 745 (1):21
- [56] Krot, A. N., Makide, K., Nagashima, K., et al. (2012). Heterogeneous distribution of <sup>26</sup>Al at the birth of the solar system: Evidence from refractory grains and inclusions. *Meteoritics and Planetary Science* 47 (12):1948–1979
- [55] Johnson, B. C., Lisse, C. M., Chen, C. H., et al. (2012). A Self-consistent Model of the Circumstellar Debris Created by a Giant Hypervelocity Impact in the HD 172555 System. *The Astrophysical Journal* 761 (1):45

## 2011

- [54] Gaidos, E., Rusch, A., and Ilardo, M. (2011). Ribosomal tag pyrosequencing of dna and rna from benthic coral reef microbiota: community spatial structure, rare members and nitrogen-cycling guilds. *Environmental Microbiology* 13 (5):1138–1152
- [53] Kite, E. S., Gaidos, E., and Manga, M. (2011). Climate Instability on Tidally Locked Exoplanets. *The Astrophysical Journal* 743 (1):41

- [52] ★ Mann, A. W., Gaidos, E., and Aldering, G. (2011). Ground-Based Submillimagnitude CCD Photometry of Bright Stars Using Snapshot Observations. *Publications of the Astronomical Society of the Pacific* 123 (909):1273
- [51] Lépine, S. and Gaidos, E. (2011). An All-sky Catalog of Bright M Dwarfs. *The Astronomical Journal* 142 (4):138
- [50] ★ Moskovitz, N. and Gaidos, E. (2011). Differentiation of planetesimals and the thermal consequences of melt migration. *Meteoritics and Planetary Science* 46 (6):903–918
- [49] Pierrehumbert, R. and Gaidos, E. (2011). Hydrogen Greenhouse Planets Beyond the Habitable Zone. *The Astrophysical Journal Letters* 734 (1):L13
- [48] van Summeren, J., Conrad, C. P., and Gaidos, E. (2011). Mantle Convection, Plate Tectonics, and Volcanism on Hot Exo-Earths. *The Astrophysical Journal Letters* 736 (1):L15
- [47] Makide, K., Nagashima, K., Krot, A. N., et al. (2011). Heterogeneous Distribution of  $^{26}\text{Al}$  at the Birth of the Solar System. *The Astrophysical Journal Letters* 733 (2):L31

## 2010

- [46] **Gaidos, E., Conrad, C. P., Manga, M., et al. (2010). Thermodynamic Limits on Magnetodinos in Rocky Exoplanets. *The Astrophysical Journal* 718 (2):596–609**
- [45] ★ Mann, A. W., Gaidos, E., and Gaudi, B. S. (2010). The Invisible Majority? Evolution and Detection of Outer Planetary Systems without Gas Giants. *The Astrophysical Journal* 719 (2):1454–1469
- [44] ★ Grand, M. and Gaidos, E. (2010). Methane emission from a tropical wetland in Ka’au Crater, O’ahu, Hawai’i. *Pacific Sci.* 64:57–72
- [43] Apps, K., Clubb, K. I., Fischer, D. A., et al. (2010). M2K: I. A Jupiter-Mass Planet Orbiting the M3V Star HIP 79431. *Publications of the Astronomical Society of the Pacific* 122 (888):156

## 2009

- [42] **Gaidos, E., Krot, A. N., and Huss, G. R. (2009). On the Oxygen Isotopic Composition of the Solar System. *The Astrophysical Journal Letters* 705 (2):L163–L167**
- [41] **Gaidos, E., Krot, A. N., Williams, J. P., et al. (2009).  $^{26}\text{Al}$  and the Formation of the Solar System from a Molecular Cloud Contaminated by Wolf-Rayet Winds. *The Astrophysical Journal* 696 (2):1854–1863**
- [40] **Gaidos, E., Marteinsson, V. J., Thorsteinsson, T., et al. (2009). An oligarchic microbial assemblage in the anoxic bottom waters of a volcanic subglacial lake. *ISME Journal* 3:486–497**
- [39] ★ Moskovitz, N. A., Gaidos, E., and Williams, D. M. (2009). The Effect of Lunarlike Satellites on the Orbital Infrared Light Curves of Earth-Analog Planets. *Astrobiology* 9 (3):269–277
- [38] ★ Kite, E. S., Manga, M., and Gaidos, E. (2009). Geodynamics and Rate of Volcanism on Massive Earth-like Planets. *The Astrophysical Journal* 700 (2):1732–1749
- [37] ★ Rusch, A., Hannides, A. K., and Gaidos, E. (2009). Diverse communities of active Bacteria and Archaea along oxygen gradients in coral reef sediments. *Coral Reefs* 28:15–26

## 2008

- [36] Williams, D. M. and Gaidos, E. (2008). Detecting the glint of starlight on the oceans of distant planets. *Icarus* 195 (2):927–937
- [35] ★ Moskovitz, N. A., Jedicke, R., Gaidos, E., et al. (2008). The distribution of basaltic asteroids in the Main Belt. *Icarus* 198 (1):77–90



- [34] Thorsteinsson, T., Elefsen, S. o., Gaidos, E., et al. (2008). A hot water drill with built-in sterilization: Design, testing and performance. *Jökull* 57:71–82
- [33] ★ Moskovitz, N. A., Lawrence, S., Jedicke, R., et al. (2008). A Spectroscopically Unique Main-Belt Asteroid: 10537 (1991 RY16). *The Astrophysical Journal Letters* 682 (1):L57

## 2007

- [32] Gaidos, E., Haghighipour, N., Agol, E., et al. (2007). New Worlds on the Horizon: Earth-Sized Planets Close to Other Stars. *Science* 318 (5848):210
- [31] Gaidos, E., Glazer, B., Harris, D., et al. (2007). A simple sampler for subglacial water bodies. *Journal of Glaciology* 53 (180):157–158
- [30] Gaidos, E., Dubuc, T., Dunford, M., et al. (2007). The precambrian emergence of animal life: a geobiological perspective. *Geobiology* 5 (4):351–373
- [29] Williams, J. P. and Gaidos, E. (2007). On the Likelihood of Supernova Enrichment of Protoplanetary Disks. *The Astrophysical Journal Letters* 663 (1):L33–L36
- [28] Jóhannesson, T., Thorsteinsson, T., Stefánsson, A., et al. (2007). Circulation and thermodynamics in a subglacial geothermal lake under the Western Skaftá cauldron of the Vatnajökull ice cap, Iceland. *Geophysical Research Letters* 34 (19):L19502
- [27] ★ Sorensen, K. B., Glazer, B., Hannides, A. K., et al. (2007). Spatial structure of the microbial community in sandy carbonate sediment. *Marine Ecology Progress Series* 346:61–74

## 2006

- [26] ★ Shkolnik, E., Gaidos, E., and Moskovitz, N. (2006). No Detectable H<sup>+</sup><sub>3</sub> Emission from the Atmospheres of Hot Jupiters. *The Astronomical Journal* 132 (3):1267–1274

## 2005

- [25] Gaidos, E., Deschenes, B., Dundon, L., et al. (2005). Beyond the Principle of Plentitude: A Review of Terrestrial Planet Habitability. *Astrobiology* 5 (2):100–126

## 2004

- [24] Gaidos, E. and Williams, D. M. (2004). Seasonality on terrestrial extrasolar planets: inferring obliquity and surface conditions from infrared light curves. *New Astronomy* 10 (1):67–77
- [23] Gaidos, E., Lanoil, B., Thorsteinsson, T., et al. (2004). A Viable Microbial Community in a Subglacial Volcanic Crater Lake, Iceland. *Astrobiology* 4 (3):327–344
- [22] Gaidos, E. and Koresko, C. (2004). A survey of 10- $\mu$ m silicate emission from dust around young sun-like stars. *New Astronomy* 9 (1):33–42

## 2003

- [21] Gaidos, E. and Marion, G. (2003). Geological and geochemical legacy of a cold early Mars. *Journal of Geophysical Research (Planets)* 108 (E6):5055

## 2002

- [20] Gaidos, E. J. and Gonzalez, G. (2002). Stellar atmospheres of nearby young solar analogs. *New Astronomy* 7 (5):211–226

- [19] Nimmo, F. and Gaidos, E. (2002). Strike-slip motion and double ridge formation on Europa. *Journal of Geophysical Research (Planets)* 107 (E4):5021
- [18] Lewis, A. D., Stocke, J. T., Ellingson, E., et al. (2002). New X-Ray Clusters in the Einstein Extended Medium-Sensitivity Survey. I. Modifications to the X-Ray Luminosity Function. *The Astrophysical Journal* 566 (2):744–770
- [17] Heidelberg, J. F., Paulsen, I. T., Nelson, K. E., et al. (2002). Genome sequence of the dissimilatory metal ion-reducing bacterium *Shewanella oneidensis*. *Nature Biotechnology* 20:1118–1123

## 2001

- [16] Gaidos, E. J. (2001). NOTE: Cryovolcanism and the Recent Flow of Liquid Water on Mars. *Icarus* 153 (1):218–223

## 2000

- [15] Gaidos, E. J., Henry, G. W., and Henry, S. M. (2000). Spectroscopy and Photometry of Nearby Young Solar Analogs. *The Astronomical Journal* 120 (2):1006–1013
- [14] Gaidos, E. J. and Nimmo, F. (2000). Planetary science: Tectonics and water on Europa. *Nature* 405 (6787):637
- [13] Gaidos, E. J. (2000). Note: A cosmochemical determinism in the formation of Earth-like planets. *Icarus* 145 (2):637–640
- [12] Gaidos, E. J., Güdel, M., and Blake, G. A. (2000). The Faint Young Sun Paradox: An observational test of an alternative solar model. *Geophysical Research Letters* 27 (4):501–503
- [11] Kirschvink, J. L., Gaidos, E. J., Bertani, L. E., et al. (2000). Paleoproterozoic snowball Earth: Extreme climatic and geochemical global change and its biological consequences. *Proceedings of the National Academy of Science* 97 (4):1400–1405
- [10] White, S. N., Chave, A. D., Reynolds, G. T., et al. (2000). Variations in ambient light emission from black smokers and flange pools on the Juan De Fuca Ridge. *Geophysical Research Letters* 27 (8):1151–1154

## 1999

- [9] Gaidos, E. J., Neelson, K. H., and Kirschvink, J. L. (1999). Life in ice-covered oceans. *Science* 284 (5420):1631–1633
- [8] Gaidos, E. J. (1999). Observational Constraints on Late Heavy Bombardment Episodes around Young Solar Analogs. *The Astrophysical Journal Letters* 510 (2):L131–L134

## 1998

- [7] Gaidos, E. J. (1998). Nearby Young Solar Analogs. I. Catalog and Stellar Characteristics. *Publications of the Astronomical Society of the Pacific* 110 (753):1259–1276

## 1997

- [6] Gaidos, E. J. (1997). Photometry of Brightest Galaxies in Twenty Abell Clusters. *The Astronomical Journal* 114:474–481
- [5] Gaidos, E. J. (1997). The Galaxy Luminosity Function from Observations of Twenty Abell Clusters. *The Astronomical Journal* 113:117–129

- [4] ★ Oppenheimer, B. R., Helfand, D. J., and Gaidos, E. J. (1997). A Survey of the Einstein IPC Database for Extended X-Ray Sources. *The Astronomical Journal* 113:2134–2146

## 1995

- [3] Gaidos, E. J. (1995). Paleodynamics: solar system formation and the early environment of the Sun. *Icarus* 114 (2):258–268

## 1994

- [2] Gaidos, E. J. (1994). Light Echo Detection of Circumstellar Disks around Flaring Stars. *Icarus* 109 (2):382–392

## 1993

- [1] Gaidos, E. J., Magnier, E. A., and Schechter, P. L. (1993). A Catalog of QSO Candidates from a BVRI CCD Survey of the North Ecliptic Pole. *Publications of the Astronomical Society of the Pacific* 105:1294

## Book Chapters

---

- [4] Yung, Y., Wong, M., and Gaidos, E. (2015). Evolution of earth's atmosphere. In G. R. North, J. Pyle, and F. Zhang, eds., *Encyclopedia of Atmospheric Sciences (Second Edition)*, pp. 163 – 167. Academic Press, Oxford, 2nd edn
- [3] Gaidos, E. (2010). Lost in transition: The biogeochemical context of animal origins. In R. DeSalle and B. Schierwater, eds., *Key Transitions in Animal Evolution*, chap. 15, pp. 343–357. CRC Press, Boca Raton
- [2] Gaidos, E. and Selsis, F. (2007). From Protoplanets to Protolife: The Emergence and Maintenance of Life. In B. Reipurth, D. Jewitt, and K. Keil, eds., *Protostars and Planets V*, p. 929
- [1] Bertaux, J. L., Carr, M., Des Marais, D. J., et al. (2007). Conversations on the Habitability of Worlds: The Importance of Volatiles. *Space Science Reviews* 129 (1-3):123–165

## Notes and Telegrams

---

- [3] Gaidos, E., Hirano, T., Omiya, M., et al. (2021). Zodiacal exoplanets in time (ZEIT). XIV. he i transit spectroscopy of the 650 myr hyades planet k2-136c. *Research Notes of the American Astronomical Society* 5 (10):238
- [2] Gaidos, E., Williams, J., and Kraus, A. (2017). Origin of Interstellar Object A/2017 U1 in a Nearby Young Stellar Association? *Research Notes of the American Astronomical Society* 1 (1):13
- [1] Halpern, J. P., Gaidos, E., Sheffield, A., et al. (2013). Optical Observations of the Binary MSP J1023+0038 in a New Accreting State. *The Astronomer's Telegram* 5514:1

## Conference and Workshop Proceedings

---

- [9] Lépine, S. and Gaidos, E. (2013). The northern census of M dwarfs within 100 pc, and its potential for exoplanet surveys. *Astronomische Nachrichten* 334 (1-2):176
- [8] Rojas-Ayala, B., Hilton, E. J., Mann, A. W., et al. (2013). M dwarf stars in the light of (future) exoplanet searches. *Astronomische Nachrichten* 334 (1-2):155
- [7] ★Mann, A. W., Brewer, J. M., Gaidos, E., et al. (2013). Full metal bracket: A calibration of infrared and optical spectroscopic metallicities of M dwarfs over 1.5 dex. *Astronomische Nachrichten* 334 (1-2):18

- [6] Megeath, S. T., Gaidos, E., Hester, J. J., et al. (2008). *Cool Stars in Hot Places*, vol. 384 of *Astronomical Society of the Pacific Conference Series*, p. 393
- [5] **Gaidos, E., Moskovitz, N., and Williams, D. M. (2006). Terrestrial Exoplanet Light Curves. In C. Aime and F. Vakili, eds., *IAU Colloq. 200: Direct Imaging of Exoplanets: Science & Techniques*, pp. 153–158**
- [4] **Gaidos, E. J., Gonzalez, G., Gudel, M., et al. (2001). Observations of Nearby Young Solar Analogs, vol. 244 of *Astronomical Society of the Pacific Conference Series*, p. 81**
- [3] Güdel, M. and Gaidos, E. J. (2001). *Deep Radio Observations of Young Solar Analogs (CD-ROM Directory: contribs/guedel2)*, vol. 223 of *Astronomical Society of the Pacific Conference Series*, p. 662
- [2] **Gaidos, E. J. (1998). The Hadean, Through a Glass Telescopically: Observations of Young Solar Analogs. In *Origin of the Earth and Moon*, vol. 957, p. 8**
- [1] **Gaidos, E. J. (1995). The edge of darkness: Measurements of the CD galaxy in A665. In S. S. Holt and C. L. Bennett, eds., *Dark Matter*, vol. 336 of *American Institute of Physics Conference Series*, pp. 194–197**

## White Papers and Position Papers

---

- [12] Kislyakova, K. G., Fossati, L., Shulyak, D., et al. (2019). Detecting volcanically produced tori along orbits of exoplanets using UV spectroscopy. *arXiv e-prints* arXiv:1907.05088
- [11] Trilling, D., Wong, M. H., Greathouse, T., et al. (2019). Origins Survey of Primordial Relics: ELTs Reveal Compositional Variation across the Solar System. *Bulletin of the American Astronomical Society* 51 (3):519
- [10] Dragomir, D., Kempton, E., Bean, J., et al. (2019). Characterizing the Atmospheres of Irradiated Exoplanets at High Spectral Resolution. *Bulletin of the American Astronomical Society* 51 (3):422
- [9] Jang-Condell, H., Brittain, S., Weinberger, A., et al. (2019). Protoplanetary Disk Science Enabled by Extremely Large Telescopes. *Bulletin of the American Astronomical Society* 51 (3):346
- [8] Chanover, N., Wong, M. H., Greathouse, T., et al. (2019). Triggered High-Priority Observations of Dynamic Solar System Phenomena. *Bulletin of the American Astronomical Society* 51 (3):340
- [7] Ciardi, D., Bean, J., Burt, J., et al. (2019). Toward Finding Earth 2.0: Masses and Orbits of Small Planets with Extreme Radial Velocity Precision. *Bulletin of the American Astronomical Society* 51 (3):322
- [6] Wang, J., Meyer, M., Boss, A., et al. (2019). New Frontiers for Terrestrial-sized to Neptune-sized Exoplanets In the Era of Extremely Large Telescopes. *Bulletin of the American Astronomical Society* 51 (3):200
- [5] Lopez-Morales, M., Currie, T., Teske, J., et al. (2019). Detecting Earth-like Biosignatures on Rocky Exoplanets around Nearby Stars with Ground-based Extremely Large Telescopes. *Bulletin of the American Astronomical Society* 51 (3):162
- [4] Mazin, B., Artigau, E., Bailey, V., et al. (2019). Directly Imaging Rocky Planets from the Ground. *Bulletin of the American Astronomical Society* 51 (3):128
- [3] Fortney, J., Kataria, T., Stevenson, K., et al. (2018). The Origins Space Telescope: Towards An Understanding of Temperate Planetary Atmospheres. *arXiv e-prints* arXiv:1803.07730
- [2] Richardson, M. I. and Gaidos, E. J. (2000). The 'Why' and the 'What': The Science Focus of the Mars Exploration Program. In *Concepts and Approaches for Mars Exploration*, p. 263
- [1] **Gaidos, E. J. and Richardson, M. (2000). Mars: The next steps. *EOS Transactions* 81 (27):302–302**

## Public Outreach

---

- [1] ★ Trang, D. and Gaidos, E. (2010). Violent Adolescent Planet Caught Infrared Handed. Tech. rep