

# Eric Gaidos | Publications

## Peer-Reviewed Journals: First or Corresponding Author (48)

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- ★ 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
- ★ 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
- ★ 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
- ★ 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
- ★ 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
- ★ Gaidos, E. (2017). A minimum mass nebula for M dwarfs. *Monthly Notices of the Royal Astronomical Society* 470 (1):L1–L5
- ★ 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
- ★ 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
- ★ 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
- ★ 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
- ★ 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
- ★ Gaidos, E. (2015). What Are Little Worlds Made Of? Stellar Abundances and the Building Blocks of Planets. *The Astrophysical Journal* 804 (1):40
- ★ 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

- ★ 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
- ★ 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
- ★ 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
- ★ 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
- ★ Gaidos, E. (2013). Candidate Planets in the Habitable Zones of Kepler Stars. *The Astrophysical Journal* 770 (2):90
- ★ 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
- ★ 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
- ★ 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
- ★ 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
- ★ Gaidos, E., Conrad, C. P., Manga, M., et al. (2010). Thermodynamic Limits on Magnetodynamos in Rocky Exoplanets. *The Astrophysical Journal* 718 (2):596–609
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- ★ Gaidos, E., Krot, A. N., Williams, J. P., et al. (2009). <sup>26</sup>Al and the Formation of the Solar System from a Molecular Cloud Contaminated by Wolf-Rayet Winds. *The Astrophysical Journal* 696 (2):1854–1863
- ★ Gaidos, E., Marteinson, 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
- ★ 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
- ★ Gaidos, E., Glazer, B., Harris, D., et al. (2007). A simple sampler for subglacial water bodies. *Journal of Glaciology* 53 (180):157–158

- ★ Gaidos, E., Dubuc, T., Dunford, M., et al. (2007). The precambrian emergence of animal life: a geobiological perspective. *Geobiology* 5 (4):351–373
- ★ 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
- ★ 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
- ★ 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
- ★ 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
- ★ Gaidos, E. and Marion, G. (2003). Geological and geochemical legacy of a cold early Mars. *Journal of Geophysical Research (Planets)* 108 (E6):5055
- ★ Gaidos, E. J. and Gonzalez, G. (2002). Stellar atmospheres of nearby young solar analogs. *New Astronomy* 7 (5):211–226
- ★ Gaidos, E. J. (2001). NOTE: Cryovolcanism and the Recent Flow of Liquid Water on Mars. *Icarus* 153 (1):218–223
- ★ 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
- ★ Gaidos, E. J. and Nimmo, F. (2000). Planetary science: Tectonics and water on Europa. *Nature* 405 (6787):637
- ★ Gaidos, E. J. (2000). Note: A cosmochemical determinism in the formation of Earth-like planets. *Icarus* 145 (2):637–640
- ★ 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
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- ★ Gaidos, E. J. (1999). Observational Constraints on Late Heavy Bombardment Episodes around Young Solar Analogs. *The Astrophysical Journal Letters* 510 (2):L131–L134
- ★ 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
- ★ Gaidos, E. J. (1997). Photometry of Brightest Galaxies in Twenty Abell Clusters. *The Astronomical Journal* 114:474–481
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★ Gaidos, E. J. (1995). Paleodynamics: solar system formation and the early environment of the Sun. *Icarus* 114 (2):258–268

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

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★ 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

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★ 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

★ Kite, E. S., Gaidos, E., and Onstott, T. C. (2018). Valuing Life-Detection Missions. *Astrobiology* 18 (7):834–840

★ 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

★ 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

★ 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

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★ 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

★ 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

★ 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

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- ★ 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
- ★ 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
- ★ Rusch, A. and Gaidos, E. (2013). Nitrogen-cycling bacteria and archaea in the carbonate sediment of a coral reef. *Geobiology* 11 (5):472–484
- ★ 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
- ★ 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
- ★ 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
- ★ Kite, E. S., Gaidos, E., and Manga, M. (2011). Climate Instability on Tidally Locked Exoplanets. *The Astrophysical Journal* 743 (1):41
- ★ 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
- ★ Lépine, S. and Gaidos, E. (2011). An All-sky Catalog of Bright M Dwarfs. *The Astronomical Journal* 142 (4):138
- ★ Moskovitz, N. and Gaidos, E. (2011). Differentiation of planetesimals and the thermal consequences of melt migration. *Meteoritics and Planetary Science* 46 (6):903–918
- ★ Pierrehumbert, R. and Gaidos, E. (2011). Hydrogen Greenhouse Planets Beyond the Habitable Zone. *The Astrophysical Journal Letters* 734 (1):L13
- ★ 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
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- ★ 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

- ★ Williams, D. M. and Gaidos, E. (2008). Detecting the glint of starlight on the oceans of distant planets. *Icarus* 195 (2):927–937
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- ★ 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
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- ★ 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

### Third Author (17)

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- ★ 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
- ★ 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
- ★ 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
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- ★ 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
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- ★ Mann, A. W., Brewer, J. M., Gaidos, E., et al. (2013). Prospecting in Late-type Dwarfs: A Calibration

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★ Moskovitz, N. A., Jedicke, R., Gaidos, E., et al. (2008). The distribution of basaltic asteroids in the Main Belt. *Icarus* 198 (1):77–90

★ 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

★ 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

## **Nth Author (39)**

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★ Addison, B. C., Horner, J., Wittenmyer, R. A., et al. (2020). The Youngest Planet to Have a Spin-Orbit Alignment Measurement AU Mic b. *arXiv e-prints* arXiv:2006.13675

★ 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

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★ 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

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- ★ 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
- ★ 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
- ★ 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
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- ★ 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
- ★ 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
- ★ 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
- ★ 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
- ★ Kraus, A. L., Douglas, S. T., Mann, A. W., et al. (2017). The Factory and the Beehive. III. PT-FEB132.707+19.810, A Low-mass Eclipsing Binary in Praesepe Observed by PTF and K2. *The Astrophysical Journal* 845 (1):72
- ★ 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
- ★ 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
- ★ Einarsson, B., Jóhannesson, T., Þorsteinsson, 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
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- ★ 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
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- ★ 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
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