rodrigo luger

stats publications

Total Pubs 45
Refereed 37
First Author 14
Citations 1737
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citations → (refereed in **bold**)

- **7 Luger, R.**, Foreman-Mackey, D., & Hedges, C., 2021, Mapping Stellar Surfaces. II. An Interpretable Gaussian Process Model for Light Curves, AJ, **162**, 124
- **7 Luger, R.**, Foreman-Mackey, D., Hedges, C., & Hogg, D., 2021, Mapping Stellar Surfaces. I. Degeneracies in the Rotational Light-Curve Problem, AJ, **162**, 123
- Dholakia, S., Luger, R., & Dholakia, S., 2021, Efficient and Precise Transit Light Curves for Rapidly-Rotating, Oblate Stars, arXiv e-prints
- Hedges, C., Luger, R., Martinez-Palomera, J., Dotson, J., & Barentsen, G., 2021, Linearized Field Deblending: Point-Spread Function Photometry for Impatient Astronomers, AJ, 162, 107
- Zinn, J., Stello, D., Elsworth, Y., García, R., et al. (including **Luger, R.**), 2021, The K2 Galactic Archaeology Program Data Release 3: Age-Abundance Patterns in C1-C8, C10-C18, arXiv e-prints
- **1 Luger, R.**, Foreman-Mackey, D., & Hedges, C., 2021, starry_process: Interpretable Gaussian Processes for Stellar Light Curves, The Journal of Open Source Software, **6**, 3071
- 9 Foreman-Mackey, D., Luger, R., Agol, E., Barclay, T., et al., 2021, Exoplanet: Gradient-Based Probabilistic Inference for Exoplanet Data & Data
- 2 Bartolić, F., **Luger, R.**, Foreman-Mackey, D., Howell, R., & Rathbun, J., 2021, Occultation Mapping of lo's Surface in the Near-Infrared I: Inferring Static Maps, arXiv e-prints
- 1 Luger, R., Agol, E., Bartolić, F., & Foreman-Mackey, D., 2021, Analytic Light Curves in Reflected Light: Phase Curves, Occultations, and Non-Lambertian Scattering for Spherical Planets and Moons, arXiv e-prints
- 26 Agol, E., Dorn, C., Grimm, S., Turbet, M., et al. (including **Luger, R.**), 2021, Refining the Transit-Timing and Photometric Analysis of TRAPPIST-1: Masses, Radii, Densities, Dynamics, and Ephemerides, The Planetary Science Journal, **2**, 1
- 2 Hedges, C., **Luger, R.**, Dotson, J., Foreman-Mackey, D., & Barentsen, G., 2021, Multiwavelength Photometry Derived From Monochromatic Kepler Data, AJ, **161**, 95
- 9 Zinn, J., Stello, D., Elsworth, Y., García, R., et al. (including Luger, R.), 2020, The K2 Galactic Archaeology Program Data Release 2: Asteroseismic Results From Campaigns 4, 6, and 7, The Astrophysical Journal Supplement Series, 251, 23
- 15 Cunningham, E., Garavito-Camargo, N., Deason, A., Johnston, K., et al. (including Luger, R.), 2020, Quantifying the Stellar Halo's Response to the LMC's Infall With Spherical Harmonics, ApJ, 898, 4
- **40** Agol, E., **Luger, R.**, & Foreman-Mackey, D., 2020, Analytic Planetary Transit Light Curves and Derivatives for Stars With Polynomial Limb Darkening, AJ, **159**, 123
- 13 Montet, B., Feinstein, A., Luger, R., Bedell, M., et al., 2020, The Young Planet DS Tuc Ab Has a Low Obliquity, AJ, 159, 112
- 12 Fleming, D., Barnes, R., Luger, R., & Vander Plas, J., 2020, On the XUV Luminosity Evolution of TRAPPIST-1, ApJ. 891, 155
- 18 Barnes, R., Luger, R., Deitrick, R., Driscoll, P., et al., 2020, VPLanet: The Virtual Planet Simulator, PASP, 132, 24502

- 38 David, T., Petigura, E., Luger, R., Foreman-Mackey, D., et al., 2019, Four Newborn Planets Transiting the Young Solar Analog V1298 Tau, ApJ, 885
- 20 Bedell, M., Hogg, D., Foreman-Mackey, D., Montet, B., & Luger, R., 2019, WOBBLE: A Data-Driven Analysis Technique for Time-Series Stellar Spectra, AJ, 158, 164
- 76 Feinstein, A., Montet, B., Foreman-Mackey, D., Bedell, M., et al. (including **Luger, R.**), 2019, Eleanor: An Open-Source Tool for Extracting Light Curves From the TESS Full-Frame Images, PASP, **131**, 94502
- 26 Kruse, E., Agol, E., Luger, R., & Foreman-Mackey, D., 2019, Detection of Hundreds of New Planet Candidates and Eclipsing Binaries in K2 Campaigns 0-8, The Astrophysical Journal Supplement Series. 244. 11
- **20** Fleming, D., Barnes, R., Davenport, J., & **Luger, R.**, 2019, Rotation Period Evolution in Low-Mass Binary Stars: The Impact of Tidal Torques and Magnetic Braking, ApJ, **881**, 88
- 81 Eastman, J., Rodriguez, J., Agol, E., Stassun, K., et al. (including **Luger, R.**), 2019, EXOFASTv2: A Public, Generalized, Publication-Quality Exoplanet Modeling Code, arXiv e-prints
- 2 Kislyakova, K., Fossati, L., Shulyak, D., Günther, E., et al. (including **Luger, R.**), 2019, Detecting Volcanically Produced Tori Along Orbits of Exoplanets Using UV Spectroscopy, arXiv e-prints
- 25 Kreidberg, L., Luger, R., & Bedell, M., 2019, No Evidence for Lunar Transit in New Analysis of Hubble Space Telescope Observations of the Kepler-1625 System, ApJ, 877
- 1 Saunders, N., Luger, R., & Barnes, R., 2019, The Pointing Limits of Transiting Exoplanet Light Curve Characterization With Pixel Level Decorrelation, AJ, 157, 197
- 10 **Luger, R.**, Bedell, M., Vanderspek, R., & Burke, C., 2019, TESS Photometric Mapping of a Terrestrial Planet in the Habitable Zone: Detection of Clouds, Oceans, and Continents, arXiv e-prints
- **84 Luger, R.**, Agol, E., Foreman-Mackey, D., Fleming, D., et al., 2019, Starry: Analytic Occultation Light Curves, AJ, **157**, 64
- Barnes, R., **Luger, R.**, Smotherman, H., Deitrick, R., & Fleming, D., 2019, After the Habitable Zone, Memorie della Societa Astronomica Italiana, **90**, 641
- **20** Lustig-Yaeger, J., Meadows, V., Tovar Mendoza, G., Schwieterman, E., et al. (including **Luger, R.**), 2018, Detecting Ocean Glint on Exoplanets Using Multiphase Mapping, AJ, **156**, 301
- 64 Lincowski, A., Meadows, V., Crisp, D., Robinson, T., et al. (including **Luger, R.**), 2018, Evolved Climates and Observational Discriminants for the TRAPPIST-1 Planetary System, ApJ, **867**, 76
- **Saunders**, N., 2018, An Update to the EVER-EST K2 Pipeline: Short Cadence, Saturated Stars, and Kepler-Like Photometry Down to Kp = 15, AJ, **156**, 99
- 22 Fleming, D., Barnes, R., Graham, D., Luger, R., & Quinn, T., 2018, On the Lack of Circumbinary Planets Orbiting Isolated Binary Stars, ApJ, 858, 86
- 10 Tian, F., Güdel, M., Johnstone, C., Lammer, H., et al. (including **Luger, R.**), 2018, Water Loss From Young Planets, Space Science Reviews, **214**, 65
- 100 Meadows, V., Arney, G., Schwieterman, E., Lustig-Yaeger, J., et al. (including **Luger, R.**), 2018, The Habitability of Proxima Centauri B: Environmental States and Observational Discriminants, Astrobiology, **18**, 133
- **22 Luger, R.**, Lustig-Yaeger, J., & Agol, E., 2017, Planet-Planet Occultations in TRAPPIST-1 and Other Exoplanet Systems, ApJ, **851**, 94
- **11 Luger, R.**, Foreman-Mackey, D., & Hogg, D., 2017, Linear Models for Systematics and Nuisances, Research Notes of the American Astronomical Society, **1**, 7
- 188 Luger, R., Sestovic, M., Kruse, E., Grimm, S., et al., 2017, A Seven-Planet Resonant Chain in TRAP-

- PIST-1, Nature Astronomy, 1, 129
- **25 Luger, R.**, Lustig-Yaeger, J., Fleming, D., Tilley, M., et al., 2017, The Pale Green Dot: A Method to Characterize Proxima Centauri B Using Exo-Aurorae, ApJ, **837**, 63
- **175 Luger, R.**, Agol, E., Kruse, E., Barnes, R., et al., 2016, EVEREST: Pixel Level Decorrelation of K2 Light Curves, AJ, **152**, 100
- 51 Barnes, R., Deitrick, R., **Luger, R.**, Driscoll, P., et al., 2016, The Habitability of Proxima Centauri B I: Evolutionary Scenarios, arXiv e-prints
- 64 Schwieterman, E., Meadows, V., Domagal-Goldman, S., Deming, D., et al. (including **Luger, R.**), 2016, Identifying Planetary Biosignature Impostors: Spectral Features of CO and O_4 Resulting From Abiotic O_2/O_3 Production, ApJ, **819**
- **254 Luger, R.**, & Barnes, R., 2015, Extreme Water Loss and Abiotic O_2 Buildup on Planets Throughout the Habitable Zones of M Dwarfs, Astrobiology, **15**, 119
- **79 Luger, R.**, Barnes, R., Lopez, E., Fortney, J., et al., 2015, Habitable Evaporated Cores: Transforming Mini-Neptunes Into Super-Earths in the Habitable Zones of M Dwarfs, Astrobiology, **15**, 57
- 14 Deitrick, R., Barnes, R., McArthur, B., Quinn, T., et al. (including **Luger, R.**), 2015, The Three-Dimensional Architecture of the *v* Andromedae Planetary System, ApJ, **798**, 46