

Alex Glocer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2319631/publications.pdf>

Version: 2024-02-01

84
papers

3,454
citations

159585

30
h-index

149698

56
g-index

98
all docs

98
docs citations

98
times ranked

2864
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The Endurance Rocket Mission. <i>Space Science Reviews</i> , 2022, 218, . | 8.1 | 2 |
| 2 | Estimating Maximum Extent of Auroral Equatorward Boundary Using Historical and Simulated Surface Magnetic Field Data. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028284. | 2.4 | 10 |
| 3 | What sustained multi-disciplinary research can achieve: The space weather modeling framework. <i>Journal of Space Weather and Space Climate</i> , 2021, 11, 42. | 3.3 | 32 |
| 4 | New Developments in the Comprehensive Inner Magnetosphere-Ionosphere Model. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028987. | 2.4 | 8 |
| 5 | Recreating the Horizontal Magnetic Field at Colaba During the Carrington Event With Geospace Simulations. <i>Space Weather</i> , 2021, 19, e2020SW002585. | 3.7 | 8 |
| 6 | Electron Energy Interplay in the Geomagnetic Trap Below the Auroral Acceleration Region. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028811. | 2.4 | 7 |
| 7 | Depleted Plasma Densities in the Ionosphere of Venus Near Solar Minimum From Parker Solar Probe Observations of Upper Hybrid Resonance Emission. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092243. | 4.0 | 7 |
| 8 | Impacts of Ionospheric Ions on Magnetic Reconnection and Earth's Magnetosphere Dynamics. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000707. | 23.0 | 26 |
| 9 | On formation flying in low earth mirrored orbits – A case study. <i>Acta Astronautica</i> , 2021, 184, 142-149. | 3.2 | 3 |
| 10 | The Precipitated Electrons in the Region of Diffuse Aurora Driven by Ionosphere-Thermosphere Collisional Processes. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094583. | 4.0 | 6 |
| 11 | The Key Role of Cold Ionospheric Ions As a Source of Hot Magnetospheric Plasma and As a Driver of the Dynamics of Substorms and Storms. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, . | 2.8 | 3 |
| 12 | Quantification of Cold-Ion Beams in a Magnetic Reconnection Jet. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, . | 2.8 | 4 |
| 13 | Impact of space weather on climate and habitability of terrestrial-type exoplanets. <i>International Journal of Astrobiology</i> , 2020, 19, 136-194. | 1.6 | 125 |
| 14 | A Case Study on the Origin of Near-Earth Plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028205. | 2.4 | 23 |
| 15 | The Formation of Electron Heat Flux in the Region of Diffuse Aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028175. | 2.4 | 13 |
| 16 | How Magnetically Conjugate Atmospheres and the Magnetosphere Participate in the Formation of Low-Energy Electron Precipitation in the Region of Diffuse Aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028057. | 2.4 | 7 |
| 17 | The Contribution of N^+ Ions to Earth's Polar Wind. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089321. | 4.0 | 8 |
| 18 | Atmospheric Escape Processes and Planetary Atmospheric Evolution. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027639. | 2.4 | 58 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | The Space Environment and Atmospheric Joule Heating of the Habitable Zone Exoplanet TOI 700 d. <i>Astrophysical Journal</i> , 2020, 897, 101. | 4.5 | 9 |
| 20 | Pitch Angle Scattering of Sub-MeV Relativistic Electrons by Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5610-5626. | 2.4 | 41 |
| 21 | Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 6204-6213. | 4.0 | 21 |
| 22 | Ionospheric Ambipolar Electric Fields of Mars and Venus: Comparisons Between Theoretical Predictions and Direct Observations of the Electric Potential Drop. <i>Geophysical Research Letters</i> , 2019, 46, 1168-1176. | 4.0 | 21 |
| 23 | Wave-induced particle precipitation into the ionosphere from the inner magnetosphere. , 2019, , . | | 0 |
| 24 | High-density O ⁺ in Earth's outer magnetosphere and its effect on dayside magnetopause magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10257-10269. | 2.4 | 14 |
| 25 | Collisionless relaxation of the ion ring distribution in space plasma. <i>Planetary and Space Science</i> , 2019, 165, 75-84. | 1.7 | 0 |
| 26 | Energy Dissipation in the Upper Atmospheres of TRAPPIST-1 Planets. <i>Astrophysical Journal Letters</i> , 2018, 856, L11. | 8.3 | 19 |
| 27 | Geomagnetic Storms: First-Principles Models for Extreme Geospace Environment. , 2018, , 231-258. | | 3 |
| 28 | The Unknown Hydrogen Exosphere: Space Weather Implications. <i>Space Weather</i> , 2018, 16, 205-215. | 3.7 | 20 |
| 29 | An Energetic Electron Flux Dropout Due to Magnetopause Shadowing on 1 June 2013. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1178-1190. | 2.4 | 16 |
| 30 | Reply to Comments by Tsurutani et al. on "Modeling Extreme Carrington-Type Space Weather Events Using Three-Dimensional Global MHD Simulations". <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1393-1395. | 2.4 | 2 |
| 31 | New Results From <i>Galileo's</i> First Flyby of Ganymede: Reconnection-Driven Flows at the Low-Latitude Magnetopause Boundary, Crossing the Cusp, and Icy Ionospheric Escape. <i>Geophysical Research Letters</i> , 2018, 45, 3382-3392. | 4.0 | 20 |
| 32 | Including Kinetic Ion Effects in the Coupled Global Ionospheric Outflow Solution. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2851-2871. | 2.4 | 21 |
| 33 | A hybrid electrostatic retarding potential analyzer for the measurement of plasmas at extremely high energy resolution. <i>Review of Scientific Instruments</i> , 2018, 89, 113306. | 1.3 | 7 |
| 34 | Exoplanet Modulation of Stellar Coronal Radio Emission. <i>Astronomical Journal</i> , 2018, 156, 202. | 4.7 | 8 |
| 35 | Magnetosphere dynamics during the 14 November 2012 storm inferred from TWINS, AMPERE, Van Allen Probes, and BATS-R-US-CRCM. <i>Annales Geophysicae</i> , 2018, 36, 107-124. | 1.6 | 8 |
| 36 | How Hospitable Are Space Weather Affected Habitable Zones? The Role of Ion Escape. <i>Astrophysical Journal Letters</i> , 2017, 836, L3. | 8.3 | 185 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | On the Magnetic Protection of the Atmosphere of Proxima Centauri b. <i>Astrophysical Journal Letters</i> , 2017, 844, L13. | 8.3 | 107 |
| 38 | Growth and nonlinear saturation of electromagnetic ion cyclotron waves in multi-ion species magnetospheric plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6469-6484. | 2.4 | 10 |
| 39 | Electron Drift Resonance in the MHD-Coupled Comprehensive Inner Magnetosphere-Ionosphere Model. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,006. | 2.4 | 12 |
| 40 | Photoelectrons in the quiet polar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6708-6726. | 2.4 | 25 |
| 41 | Electric Mars: A large trans-terminator electric potential drop on closed magnetic field lines above Utopia Planitia. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2260-2271. | 2.4 | 16 |
| 42 | CCMC Modeling of Magnetic Reconnection in Electron Diffusion Region Events. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 142-146. | 0.0 | 1 |
| 43 | Simulation of a rapid dropout event for highly relativistic electrons with the RBE model. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4092-4102. | 2.4 | 19 |
| 44 | Convective growth of electromagnetic ion cyclotron waves from realistic ring current ion distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,966. | 2.4 | 14 |
| 45 | Prebiotic chemistry and atmospheric warming of early Earth by an active young Sun. <i>Nature Geoscience</i> , 2016, 9, 452-455. | 12.9 | 213 |
| 46 | Ionosphere-magnetosphere energy interplay in the regions of diffuse aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6661-6673. | 2.4 | 8 |
| 47 | The electric wind of Venus: A global and persistent "polar wind"-like ambipolar electric field sufficient for the direct escape of heavy ionospheric ions. <i>Geophysical Research Letters</i> , 2016, 43, 5926-5934. | 4.0 | 31 |
| 48 | Community-wide validation of geospace model local K-index predictions to support model transition to operations. <i>Space Weather</i> , 2016, 14, 469-480. | 3.7 | 27 |
| 49 | Extended magnetohydrodynamics with embedded particle-in-cell simulation of Ganymede's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1273-1293. | 2.4 | 78 |
| 50 | Separator reconnection at the magnetopause for predominantly northward and southward IMF: Techniques and results. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 140-156. | 2.4 | 34 |
| 51 | The role of the Hall effect in the global structure and dynamics of planetary magnetospheres: Ganymede as a case study. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5377-5392. | 2.4 | 35 |
| 52 | Electron distribution function formation in regions of diffuse aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9891-9915. | 2.4 | 40 |
| 53 | The two-way relationship between ionospheric outflow and the ring current. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4338-4353. | 2.4 | 33 |
| 54 | The early Earth under a superflare and super-CME attack: prospects for life. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 409-415. | 0.0 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Multipoint observations of the open-closed field line boundary as observed by the Van Allen Probes and geostationary satellites during the 14 November 2012 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6596-6613. | 2.4 | 7 |
| 56 | Electric Mars: The first direct measurement of an upper limit for the Martian -polar wind electric potential. <i>Geophysical Research Letters</i> , 2015, 42, 9128-9134. | 4.0 | 38 |
| 57 | The global context of the 14 November 2012 storm event. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1939-1956. | 2.4 | 8 |
| 58 | Superthermal electron magnetosphere-ionosphere coupling in the diffuse aurora in the presence of ECH waves. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 445-459. | 2.4 | 12 |
| 59 | THE INTERACTION OF VENUS-LIKE, M-DWARF PLANETS WITH THE STELLAR WIND OF THEIR HOST STAR. <i>Astrophysical Journal</i> , 2015, 806, 41. | 4.5 | 65 |
| 60 | Magnetosphere-ionosphere energy interchange in the electron diffuse aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 171-184. | 2.4 | 47 |
| 61 | The Comprehensive Inner Magnetosphere-ionosphere Model. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7522-7540. | 2.4 | 106 |
| 62 | MAGNETOSPHERIC STRUCTURE AND ATMOSPHERIC JOULE HEATING OF HABITABLE PLANETS ORBITING M-DWARF STARS. <i>Astrophysical Journal</i> , 2014, 790, 57. | 4.5 | 124 |
| 63 | Modeling extreme Carrington-type space weather events using three-dimensional global MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4456-4474. | 2.4 | 74 |
| 64 | Simulation of the 23 July 2012 extreme space weather event: What if this extremely rare CME was Earth directed?. <i>Space Weather</i> , 2013, 11, 671-679. | 3.7 | 87 |
| 65 | Pressure anisotropy in global magnetospheric simulations: Coupling with ring current models. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5639-5658. | 2.4 | 24 |
| 66 | Geospace environment modeling 2008-2009 challenge: <i>st</i> index. <i>Space Weather</i> , 2013, 11, 187-205. | 3.7 | 69 |
| 67 | CRCM + BATS-US two-way coupling. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1635-1650. | 2.4 | 72 |
| 68 | Superthermal electron energy interchange in the ionosphere-plasmasphere system. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 925-934. | 2.4 | 7 |
| 69 | Tracing magnetic separators and their dependence on IMF clock angle in global magnetospheric simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4998-5007. | 2.4 | 36 |
| 70 | Global view of inner magnetosphere composition during storm time. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7074-7084. | 2.4 | 18 |
| 71 | Flux estimates of ions from the lunar exosphere. <i>Geophysical Research Letters</i> , 2012, 39, . | 4.0 | 29 |
| 72 | AMBIPOLAR ELECTRIC FIELD, PHOTOELECTRONS, AND THEIR ROLE IN ATMOSPHERIC ESCAPE FROM HOT JUPITERS. <i>Astrophysical Journal Letters</i> , 2012, 753, L4. | 8.3 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Kinetic description of ionospheric outflows based on the exact form of Fokker-Planck collision operator: Electrons. Journal of Geophysical Research, 2012, 117, . | 3.3 | 5 |
| 74 | Modeling solar zenith angle effects on the polar wind. Journal of Geophysical Research, 2012, 117, . | 3.3 | 56 |
| 75 | Adaptive numerical algorithms in space weather modeling. Journal of Computational Physics, 2012, 231, 870-903. | 3.8 | 560 |
| 76 | The effects of dynamic ionospheric outflow on the ring current. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 58 |
| 77 | Rapid rebuilding of the outer radiation belt. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 31 |
| 78 | Recent developments in the radiation belt environment model. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1435-1443. | 1.6 | 63 |
| 79 | Dynamics of ring current and electric fields in the inner magnetosphere during disturbed periods: CRCM-BATS-CUS coupled model. Journal of Geophysical Research, 2010, 115, . | 3.3 | 42 |
| 80 | Integration of the radiation belt environment model into the space weather modeling framework. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1653-1663. | 1.6 | 29 |
| 81 | Modeling ionospheric outflows and their impact on the magnetosphere, initial results. Journal of Geophysical Research, 2009, 114, . | 3.3 | 114 |
| 82 | Multifluid Block-Adaptive Tree Solar wind Roe-type Upwind Scheme: Magnetospheric composition and dynamics during geomagnetic storms-Initial results. Journal of Geophysical Research, 2009, 114, . | 3.3 | 103 |
| 83 | Polar wind outflow model: Saturn results. Journal of Geophysical Research, 2007, 112, n/a-n/a. | 3.3 | 45 |
| 84 | Impact of Solar Wind on the Earth Magnetosphere: Recent Progress in the Modeling of Ring Current and Radiation Belts. , 0, , . | | 0 |