

Joachim Saur

List of Publications by Year in descending order

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143
papers

6,234
citations

66343

42
h-index

88630

70
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161
all docs

161
docs citations

161
times ranked

3120
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient Water Vapor at Europa's South Pole. <i>Science</i> , 2014, 343, 171-174.	12.6	401
2	Universality of Solar-Wind Turbulent Spectrum from MHD to Electron Scales. <i>Physical Review Letters</i> , 2009, 103, 165003.	7.8	355
3	Identification of a Dynamic Atmosphere at Enceladus with the Cassini Magnetometer. <i>Science</i> , 2006, 311, 1406-1409.	12.6	338
4	Interaction of the Jovian magnetosphere with Europa: Constraints on the neutral atmosphere. <i>Journal of Geophysical Research</i> , 1998, 103, 19947-19962.	3.3	175
5	Dynamics of Saturn's Magnetosphere from MIMI During Cassini's Orbital Insertion. <i>Science</i> , 2005, 307, 1270-1273.	12.6	166
6	The search for a subsurface ocean in Ganymede with Hubble Space Telescope observations of its auroral ovals. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1715-1737.	2.4	128
7	Magnetic energy fluxes in sub-Alfvénic planet star and moon planet interactions. <i>Astronomy and Astrophysics</i> , 2013, 552, A119.	5.1	128
8	Three-dimensional plasma simulation of Io's interaction with the Io plasma torus: Asymmetric plasma flow. <i>Journal of Geophysical Research</i> , 1999, 104, 25105-25126.	3.3	126
9	Energetic particle injections in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	109
10	Evidence for weak MHD turbulence in the middle magnetosphere of Jupiter. <i>Astronomy and Astrophysics</i> , 2002, 386, 699-708.	5.1	86
11	UV Io footprint leading spot: A key feature for understanding the UV Io footprint multiplicity?. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	84
12	Titan's near magnetotail from magnetic field and electron plasma observations and modeling: Cassini flybys TA, TB, and T3. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	82
13	The auroral footprint of Enceladus on Saturn. <i>Nature</i> , 2011, 472, 331-333.	27.8	82
14	Ion conics and electron beams associated with auroral processes on Saturn. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	81
15	Evidence for temporal variability of Enceladus' gas jets: Modeling of Cassini observations. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	78
16	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77
17	Time-varying interaction of Europa with the jovian magnetosphere: Constraints on the conductivity of Europa's subsurface ocean. <i>Icarus</i> , 2007, 192, 41-55.	2.5	71
18	Titan's highly dynamic magnetic environment: A systematic survey of Cassini magnetometer observations from flybys T62. <i>Planetary and Space Science</i> , 2010, 58, 1230-1251.	1.7	68

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19	Orbital apocenter is not a sufficient condition for HST/STIS detection of Europa's water vapor aurora. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5123-32.	7.1	65
20	Wave-Particle Interaction of Alfvén Waves in Jupiter's Magnetosphere: Auroral and Magnetospheric Particle Acceleration. Journal of Geophysical Research: Space Physics, 2018, 123, 9560-9573.	2.4	64
21	Large Ocean Worlds with High-Pressure Ices. Space Science Reviews, 2020, 216, 1.	8.1	62
22	Induced Magnetic Fields in Solar System Bodies. Space Science Reviews, 2010, 152, 391-421.	8.1	58
23	Aurora on Ganymede. Journal of Geophysical Research: Space Physics, 2013, 118, 2043-2054.	2.4	58
24	The tails of the satellite auroral footprints at Jupiter. Journal of Geophysical Research: Space Physics, 2017, 122, 7985-7996.	2.4	57
25	Interpretation of Galileo's Io plasma and field observations: I0, I24, and I27 flybys and close polar passes. Journal of Geophysical Research, 2002, 107, SMP 5-1-SMP 5-18.	3.3	56
26	Influence of negatively charged plume grains on the structure of Enceladus' Alfvén wings: Hybrid simulations versus Cassini Magnetometer data. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	56
27	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
28	Geometry of low-frequency solar wind magnetic turbulence: Evidence for radially aligned Alfvénic fluctuations. Journal of Geophysical Research, 1999, 104, 9975-9988.	3.3	55
29	Cassini observations of Io's visible aurorae. Icarus, 2004, 172, 127-140.	2.5	55
30	Europa's far ultraviolet oxygen aurora from a comprehensive set of HST observations. Journal of Geophysical Research: Space Physics, 2016, 121, 2143-2170.	2.4	54
31	The Dust Halo of Saturn's Largest Icy Moon, Rhea. Science, 2008, 319, 1380-1384.	12.6	53
32	Jupiter's Aurora Observed With HST During Juno Orbits 3 to 7. Journal of Geophysical Research: Space Physics, 2018, 123, 3299-3319.	2.4	53
33	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. Science, 2018, 361, 774-777.	12.6	53
34	Io's nonlinear MHD-wave field in the heterogeneous Jovian magnetosphere. Geophysical Research Letters, 2007, 34, .	4.0	52
35	The plasma interaction of Enceladus: 3D hybrid simulations and comparison with Cassini MAG data. Planetary and Space Science, 2009, 57, 2113-2122.	1.7	51
36	Influence of negatively charged plume grains and hemisphere coupling currents on the structure of Enceladus' Alfvén wings: Analytical modeling of Cassini magnetometer observations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	50

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37	A model for the azimuthal plasma velocity in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	48
38	In Situ Observations Connected to the Io Footprint Tail Aurora. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3061-3077.	3.6	48
39	Multi-frequency electromagnetic sounding of the Galilean moons. <i>Icarus</i> , 2011, 214, 477-494.	2.5	46
40	Modeling Jupiter's magnetosphere: Influence of the internal sources. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2157-2172.	2.4	45
41	A model of Io's local electric field for a combined Alfvénic and unipolar inductor far-field coupling. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	44
42	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. <i>Experimental Astronomy</i> , 2012, 33, 753-791.	3.7	44
43	Io's ultraviolet aurora: Remote sensing of Io's interaction. <i>Geophysical Research Letters</i> , 2000, 27, 2893-2896.	4.0	43
44	Ice-Ocean Exchange Processes in the Jovian and Saturnian Satellites. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	43
45	The ion mass loading rate at Io. <i>Icarus</i> , 2003, 163, 456-468.	2.5	42
46	Precipitating Electron Energy Flux and Characteristic Energies in Jupiter's Main Auroral Region as Measured by Juno/JEDI. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7554-7567.	2.4	42
47	Turbulent Heating of Jupiter's Middle Magnetosphere. <i>Astrophysical Journal</i> , 2004, 602, L137-L140.	4.5	41
48	Io's Atmospheric Response to Eclipse: UV Aurorae Observations. <i>Science</i> , 2007, 318, 237-240.	12.6	41
49	Turbulent magnetic field fluctuations in Saturn's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2797-2818.	2.4	41
50	Energetic particle signatures of magnetic field-aligned potentials over Jupiter's polar regions. <i>Geophysical Research Letters</i> , 2017, 44, 8703-8711.	4.0	41
51	[ITAL]Hubble Space Telescope[/ITAL] Space Telescope Imaging Spectrograph Search for an Atmosphere on Callisto: A Jovian Unipolar Inductor. <i>Astrophysical Journal</i> , 2002, 581, L51-L54.	4.5	40
52	Anti-planetward auroral electron beams at Saturn. <i>Nature</i> , 2006, 439, 699-702.	27.8	40
53	Exospheric O ₂ densities at Europa during different orbital phases. <i>Planetary and Space Science</i> , 2013, 88, 42-52.	1.7	40
54	Birkeland currents in Jupiter's magnetosphere observed by the polar-orbiting Juno spacecraft. <i>Nature Astronomy</i> , 2019, 3, 904-909.	10.1	40

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55	Cardiovascular Comorbidities in Chronic Obstructive Pulmonary Disease (COPD)â€”Current Considerations for Clinical Practice. <i>Journal of Clinical Medicine</i> , 2019, 8, 69.	2.4	40
56	Relative contributions of sublimation and volcanoes to Io's atmosphere inferred from its plasma interaction during solar eclipse. <i>Icarus</i> , 2004, 171, 411-420.	2.5	39
57	Influence of the internally induced magnetic field on the plasma interaction of Europa. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	39
58	How is the Jovian main auroral emission affected by the solar wind?. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1960-1978.	2.4	39
59	Consistent boundary conditions at nonconducting surfaces of planetary bodies: Applications in a new Ganymede MHD model. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4412-4440.	2.4	38
60	Ion densities and magnetic signatures of dust pickup at Enceladus. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2740-2774.	2.4	38
61	Equatorial electron beams and auroral structuring at Jupiter. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	37
62	OSS (Outer Solar System): a fundamental and planetary physics mission to Neptune, Triton and the Kuiper Belt. <i>Experimental Astronomy</i> , 2012, 34, 203-242.	3.7	37
63	Energy Flux and Characteristic Energy of Electrons Over Jupiter's Main Auroral Emission. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027693.	2.4	37
64	Europa's plasma interaction with an inhomogeneous atmosphere: Development of Alfvén winglets within the Alfvén wings. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9794-9828.	2.4	36
65	Towards a Global Unified Model of Europa's Tenuous Atmosphere. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	36
66	MHD Modeling of the Plasma Interaction With Io's Asymmetric Atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9286-9311.	2.4	36
67	Hemisphere coupling in Enceladus' asymmetric plasma interaction. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	35
68	Plasma wake of Tethys: Hybrid simulations versus Cassini MAG data. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	35
69	Induction signals from Callisto's ionosphere and their implications on a possible subsurface ocean. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,677.	2.4	35
70	HUBBLE SPACE TELESCOPE/ADVANCED CAMERA FOR SURVEYS OBSERVATIONS OF EUROPA'S ATMOSPHERIC ULTRAVIOLET EMISSION AT EASTERN ELONGATION. <i>Astrophysical Journal</i> , 2011, 738, 153.	4.5	34
71	Spatial Distribution and Properties of 0.1-100 keV Electrons in Jupiter's Polar Auroral Region. <i>Geophysical Research Letters</i> , 2017, 44, 9199-9207.	4.0	34
72	Wave-Particle Interactions Associated With Io's Auroral Footprint: Evidence of Alfvén, Ion Cyclotron, and Whistler Modes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088432.	4.0	34

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73	Auroral Processes. , 2009, , 333-374.		34
74	An acceleration mechanism for the generation of the main auroral oval on Jupiter. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	33
75	Observational evidence of Alfvén wings at the Earth. Journal of Geophysical Research, 2012, 117, .	3.3	33
76	Atmospheres and Plasma Interactions at Saturn's Largest Inner Icy Satellites. Astrophysical Journal, 2005, 620, L115-L118.	4.5	32
77	Azimuthal plasma flow in the Kronian magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	32
78	Evolution of the Io footprint brightness I: Far-UV observations. Planetary and Space Science, 2013, 88, 64-75.	1.7	32
79	Magnetic signatures of a tenuous atmosphere at Dione. Geophysical Research Letters, 2011, 38, .	4.0	31
80	Analysis of Cassini magnetic field observations over the poles of Rhea. Journal of Geophysical Research, 2012, 117, .	3.3	30
81	Structure of Titan's induced magnetosphere under varying background magnetic field conditions: Survey of Cassini magnetometer data from flybys TAâ€‘T85. Journal of Geophysical Research: Space Physics, 2013, 118, 1679-1699.	2.4	30
82	An entropy stable nodal discontinuous Galerkin method for the resistive MHD equations. Part I: Theory and numerical verification. Journal of Computational Physics, 2020, 422, 108076.	3.8	30
83	Location and spatial shape of electron beams in Io's wake. Journal of Geophysical Research, 2010, 115, .	3.3	29
84	Evidence of Enceladus and Tethys microsignatures. Geophysical Research Letters, 2005, 32, .	4.0	27
85	Alfvén vortices in Saturn's magnetosheath: Cassini observations. Geophysical Research Letters, 2008, 35, .	4.0	27
86	Simulation of Io's auroral emission: Constraints on the atmosphere in eclipse. Icarus, 2011, 214, 495-509.	2.5	26
87	A New Framework to Explain Changes in Io's Footprint Tail Electron Fluxes. Geophysical Research Letters, 2020, 47, e2020GL089267.	4.0	25
88	Alfvénic Acceleration Sustains Ganymede's Footprint Tail Aurora. Geophysical Research Letters, 2020, 47, e2019GL086527.	4.0	25
89	Experimental and Simulation Efforts in the Astrobiological Exploration of Exooceans. Space Science Reviews, 2020, 216, 9.	8.1	25
90	A phenomenological model of Io's UV aurora based on HST/STIS observations. Icarus, 2014, 228, 386-406.	2.5	24

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91	A sublimated water atmosphere on Ganymede detected from Hubble Space Telescope observations. <i>Nature Astronomy</i> , 2021, 5, 1043-1051.	10.1	24
92	Similarity of the Jovian satellite footprints: Spots multiplicity and dynamics. <i>Icarus</i> , 2017, 292, 208-217.	2.5	23
93	Constraints on Io's interior from auroral spot oscillations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1903-1927.	2.4	23
94	Structure and density of Callisto's atmosphere from a fluid-kinetic model of its ionosphere: Comparison with Hubble Space Telescope and Galileo observations. <i>Icarus</i> , 2017, 282, 237-259.	2.5	23
95	Time-variable Electromagnetic Star-Planet Interaction: The TRAPPIST-1 System as an Exemplary Case. <i>Astrophysical Journal</i> , 2019, 872, 113.	4.5	21
96	Ultraviolet Io footprint short timescale dynamics. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	20
97	New constraints on Ganymede's hydrogen corona: Analysis of Lyman- α emissions observed by HST/STIS between 1998 and 2014. <i>Planetary and Space Science</i> , 2017, 148, 35-44.	1.7	20
98	Constraints on an exosphere at Ceres from Hubble Space Telescope observations. <i>Geophysical Research Letters</i> , 2016, 43, 2465-2472.	4.0	19
99	Comparison of electrical velocimetry and cardiac magnetic resonance imaging for the non-invasive determination of cardiac output. <i>Journal of Clinical Monitoring and Computing</i> , 2016, 30, 399-408.	1.6	19
100	Juno's UVS Observation of the Io Footprint During Solar Eclipse. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5184-5199.	2.4	19
101	Titan's plasma environment during a magnetosheath excursion: Real-time scenarios for Cassini's T32 flyby from a hybrid simulation. <i>Annales Geophysicae</i> , 2009, 27, 669-685.	1.6	18
102	Magnetic field fossilization and tail reconfiguration in Titan's plasma environment during a magnetopause passage: 3D adaptive hybrid code simulations. <i>Planetary and Space Science</i> , 2010, 58, 1526-1546.	1.7	18
103	Proton Acceleration by Io's Alfvénic Interaction. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027314.	2.4	18
104	First Report of Electron Measurements During a Europa Footprint Tail Crossing by Juno. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089732.	4.0	17
105	An attempt to detect transient changes in Io's SO ₂ and NaCl atmosphere. <i>Icarus</i> , 2020, 350, 113925.	2.5	16
106	Energetic Proton Acceleration Associated With Io's Footprint Tail. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090839.	4.0	16
107	Plasma Observations During the 7 June 2021 Ganymede Flyby From the Jovian Auroral Distributions Experiment (JADE) on Juno. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	16
108	Simulations of the Earth's magnetosphere embedded in sub-Alfvénic solar wind on 24 and 25 May 2002. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8517-8528.	2.4	15

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109	Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. <i>Planetary and Space Science</i> , 2020, 193, 104960.	1.7	15
110	Energetic neutral atoms from Titan: Particle simulations in draped magnetic and electric fields. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
111	Discontinuities in the magnetic field near Enceladus. <i>Geophysical Research Letters</i> , 2014, 41, 3359-3366.	4.0	13
112	A Model for Dissipation of Solar Wind Magnetic Turbulence by Kinetic Alfvén Waves at Electron Scales: Comparison with Observations. <i>Astrophysical Journal</i> , 2017, 835, 133.	4.5	13
113	Time to Exhale: Additional Value of Expiratory Chest CT in Chronic Obstructive Pulmonary Disease. <i>Canadian Respiratory Journal</i> , 2018, 2018, 1-9.	1.6	13
114	Juno Plasma Wave Observations at Ganymede. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	13
115	Solar wind turbulent spectrum from MHD to electron scales. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	12
116	Morphology of Ganymede's FUV auroral ovals. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2855-2876.	2.4	12
117	Correction to "An acceleration mechanism for the generation of the main auroral oval on Jupiter". <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	11
118	The Uncertainty of Local Background Magnetic Field Orientation in Anisotropic Plasma Turbulence. <i>Astrophysical Journal</i> , 2017, 843, 5.	4.5	11
119	A Case for Electron-Astrophysics. <i>Experimental Astronomy</i> , 0, , 1.	3.7	11
120	Electron Partial Density and Temperature Over Jupiter's Main Auroral Emission Using Juno Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029426.	2.4	11
121	FORWARD MODELING OF REDUCED POWER SPECTRA FROM THREE-DIMENSIONAL K-SPACE. <i>Astrophysical Journal</i> , 2015, 806, 116.	4.5	10
122	Longitudinal and local time asymmetries of magnetospheric turbulence in Saturn's plasma sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4119-4134.	2.4	10
123	An Analysis of the Statistics and Systematics of Limb Anomaly Detections in HST/STIS Transit Images of Europa. <i>Astronomical Journal</i> , 2020, 159, 155.	4.7	10
124	Comparison of Bioreactance Non-Invasive Cardiac Output Measurements with Cardiac Magnetic Resonance Imaging. <i>Anaesthesia and Intensive Care</i> , 2016, 44, 769-776.	0.7	9
125	Small Airway Disease in Pulmonary Hypertension" Additional Diagnostic Value of Multiple Breath Washout and Impulse Oscillometry. <i>Journal of Clinical Medicine</i> , 2018, 7, 532.	2.4	9
126	Alternating Emission Features in Io's Footprint Tail: Magnetohydrodynamical Simulations of Possible Causes. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	9

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127	Energetic aspects of Enceladus' magnetospheric interaction. Journal of Geophysical Research: Space Physics, 2013, 118, 3430-3445.	2.4	8
128	The UV Spectrum of the Ultracool Dwarf LSR J1835+3259 Observed with the Hubble Space Telescope. Astrophysical Journal, 2018, 859, 74.	4.5	8
129	Brown dwarfs as ideal candidates for detecting UV aurora outside the Solar System: <i>Hubble</i> Space Telescope observations of 2MASS J1237+6526. Astronomy and Astrophysics, 2021, 655, A75.	5.1	8
130	The Farâ€œUV Albedo of Europa From HST Observations. Journal of Geophysical Research E: Planets, 2018, 123, 1327-1342.	3.6	7
131	Feasibility and clinical applications of multiple breath wash-out (MBW) testing using sulphur hexafluoride in adults with bronchial asthma. Scientific Reports, 2020, 10, 1527.	3.3	7
132	Automated Noninvasive Central Blood Pressure Measurements by Oscillometric Radial Pulse Wave Analysis: Results of the MEASURE-cBP Validation Studies. American Journal of Hypertension, 2021, 34, 383-393.	2.0	6
133	Turbulence in the Magnetospheres of the Outer Planets. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	6
134	Multiple breath washout testing in adults with pulmonary disease and healthy controls â€œ can fewer measurements eventually be more?. BMC Pulmonary Medicine, 2017, 17, 185.	2.0	5
135	Induced Magnetic Fields in Solar System Bodies. Space Sciences Series of ISSI, 2009, , 391-421.	0.0	5
136	Enceladus as a potential oasis for life: Science goals and investigations for future explorations. Experimental Astronomy, 2022, 54, 809-847.	3.7	5
137	Phase-coherence classification: A new wavelet-based method to separate local field potentials into local (in)coherent and volume-conducted components. Journal of Neuroscience Methods, 2017, 291, 198-212.	2.5	3
138	Multiple breath washout (MBW) testing using sulfur hexafluoride: reference values and influence of anthropometric parameters. Thorax, 2021, 76, 380-386.	5.6	3
139	Mapping the Brightness of Ganymede's Ultraviolet Aurora Using Hubble Space Telescope Observations. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	3
140	Modeling Magnetospheric Fields in the Jupiter System. Astrophysics and Space Science Library, 2018, , 153-182.	2.7	2
141	Electromagnetic Coupling in Star-Planet Systems. , 2018, , 1877-1893.		2
142	Enceladus and Titan: emerging worlds of the Solar System. Experimental Astronomy, 0, , 1.	3.7	1
143	Electromagnetic Coupling in Star-Planet Systems. , 2017, , 1-17.		0