

Futoshi Takahashi

List of Publications by Year in descending order

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70
papers

2,432
citations

201385

27
h-index

205818

48
g-index

73
all docs

73
docs citations

73
times ranked

1492
citing authors

#	ARTICLE	IF	CITATIONS
1	A numerical dynamo benchmark. <i>Physics of the Earth and Planetary Interiors</i> , 2001, 128, 25-34.	0.7	224
2	Solar wind proton reflection at the lunar surface: Low energy ion measurement by MAP–PACE onboard SELENE (KAGUYA). <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	178
3	In-flight Performance and Initial Results of Plasma Energy Angle and Composition Experiment (PACE) on–SELENE (Kaguya). <i>Space Science Reviews</i> , 2010, 154, 265-303.	3.7	123
4	Surface vector mapping of magnetic anomalies over the Moon using Kaguya and Lunar Prospector observations. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1160-1185.	1.5	106
5	Lunar Magnetic Field Observation and Initial Global Mapping of Lunar Magnetic Anomalies by MAP-LMAG Onboard SELENE (Kaguya). <i>Space Science Reviews</i> , 2010, 154, 219-251.	3.7	94
6	Simulations of a Quasi-Taylor State Geomagnetic Field Including Polarity Reversals on the Earth Simulator. <i>Science</i> , 2005, 309, 459-461.	6.0	93
7	Simultaneous observation of the electron acceleration and ion deceleration over lunar magnetic anomalies. <i>Earth, Planets and Space</i> , 2012, 64, 83-92.	0.9	87
8	First direct detection of ions originating from the Moon by MAP–PACE IMA onboard SELENE (KAGUYA). <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	79
9	Solar–wind proton access deep into the near–Moon wake. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	79
10	Seismoelectromagnetic Effect Associated with the Izmit Earthquake and Its Aftershocks. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 350-360.	1.1	71
11	Preliminary results of multidisciplinary observations before, during and after the Kocaeli (Izmit) earthquake in the western part of the North Anatolian Fault Zone. <i>Earth, Planets and Space</i> , 2000, 52, 293-298.	0.9	69
12	Performance benchmarks for a next generation numerical dynamo model. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1586-1607.	1.0	66
13	Ground calibration of the high-sensitivity SELENE lunar magnetometer LMAG. <i>Earth, Planets and Space</i> , 2008, 60, 353-363.	0.9	62
14	First in situ observation of the Moon–originating ions in the Earth's Magnetosphere by MAP–PACE on SELENE (KAGUYA). <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	62
15	Phase Transition of FeO and Stratification in Earth–s Outer Core. <i>Science</i> , 2011, 334, 792-794.	6.0	60
16	Scale variability in convection-driven MHD dynamos at low Ekman number. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 167, 168-178.	0.7	56
17	Dipolar and non-dipolar dynamos in a thin shell geometry with implications for the magnetic field of Mercury. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	53
18	In-orbit calibration of the lunar magnetometer onboard SELENE (KAGUYA). <i>Earth, Planets and Space</i> , 2009, 61, 1269-1274.	0.9	51

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19	Pairwise energy gain&loss feature of solar wind protons in the near&Moon wake. Geophysical Research Letters, 2009, 36, .	1.5	51
20	Constraint on the lunar core size from electromagnetic sounding based on magnetic field observations by an orbiting satellite. Icarus, 2013, 222, 32-43.	1.1	51
21	The Origin of Mercury&TM's Internal Magnetic Field. Space Science Reviews, 2007, 132, 261-290.	3.7	44
22	Electrostatic solitary waves associated with magnetic anomalies and wake boundary of the Moon observed by KAGUYA. Geophysical Research Letters, 2010, 37, .	1.5	41
23	Effects of thermally heterogeneous structure in the lowermost mantle on the geomagnetic field strength. Earth and Planetary Science Letters, 2008, 272, 738-746.	1.8	39
24	Magnetic Cleanliness Program Under Control of&Electromagnetic Compatibility for the SELENE (Kaguya) Spacecraft. Space Science Reviews, 2010, 154, 253-264.	3.7	36
25	Effect of the solar wind proton entry into the deepest lunar wake. Geophysical Research Letters, 2010, 37, .	1.5	34
26	Non-monochromatic whistler waves detected by Kaguya on the dayside surface of the moon. Earth, Planets and Space, 2011, 63, 37-46.	0.9	31
27	Reorientation of the early lunar pole. Nature Geoscience, 2014, 7, 409-412.	5.4	31
28	Mercury&TM's anomalous magnetic field caused by a symmetry-breaking self-regulating dynamo. Nature Communications, 2019, 10, 208.	5.8	27
29	Thermal core&mantle coupling in an early lunar dynamo: Implications for a global magnetic field and magnetosphere of the early Moon. Geophysical Research Letters, 2009, 36, .	1.5	24
30	Statistical analysis of monochromatic whistler waves near the Moon detected by Kaguya. Annales Geophysicae, 2011, 29, 889-893.	0.6	24
31	Type-II entry of solar wind protons into the lunar wake: Effects of magnetic connection to the night-side surface. Planetary and Space Science, 2013, 87, 106-114.	0.9	23
32	Regional mapping of the lunar magnetic anomalies at the surface: Method and its application to strong and weak magnetic anomaly regions. Icarus, 2014, 228, 35-53.	1.1	23
33	Statistical study of broadband whistler&mode waves detected by Kaguya near the Moon. Geophysical Research Letters, 2012, 39, .	1.5	22
34	A detailed analysis of a dynamo mechanism in a rapidly rotating spherical shell. Journal of Fluid Mechanics, 2012, 701, 228-250.	1.4	22
35	Large&litude monochromatic ULF waves detected by Kaguya at the Moon. Journal of Geophysical Research, 2012, 117, .	3.3	20
36	A numerical study on magnetic polarity transition in an MHD dynamo model. Earth, Planets and Space, 2007, 59, 665-673.	0.9	19

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37	Kaguya observations of the lunar wake in the terrestrial foreshock: Surface potential change by bow-shock reflected ions. <i>Icarus</i> , 2017, 293, 45-51.	1.1	19
38	Dynamo action in a rotating spherical shell at high Rayleigh numbers. <i>Physics of Fluids</i> , 2005, 17, 076601.	1.6	18
39	Double diffusive convection in the Earth's core and the morphology of the geomagnetic field. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 226, 83-87.	0.7	17
40	Structure of the ionized lunar sodium and potassium exosphere: Dawn-dusk asymmetry. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 798-809.	1.5	16
41	Paleointensity study of the middle Cretaceous Iritono granite in northeast Japan: Implication for high field intensity of the Cretaceous normal superchron. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 176, 235-242.	0.7	15
42	Dynamo action and its temporal variation inside the tangent cylinder in MHD dynamo simulations. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 140, 53-71.	0.7	14
43	Interaction between terrestrial plasma sheet electrons and the lunar surface: SELENE (Kaguya) observations. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	13
44	Effects of boundary layers on magnetic field behavior in an MHD dynamo model. <i>Physics of the Earth and Planetary Interiors</i> , 2001, 128, 149-161.	0.7	12
45	Implementation of a high-order combined compact difference scheme in problems of thermally driven convection and dynamo in rotating spherical shells. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2012, 106, 231-249.	0.4	11
46	Anomalous deformation of the Earth's bow shock in the lunar wake: Joint measurement by Chang'e-1 and SELENE. <i>Planetary and Space Science</i> , 2011, 59, 378-386.	0.9	10
47	Night side lunar surface potential in the Earth's magnetosphere. <i>Advances in Space Research</i> , 2014, 54, 1985-1992.	1.2	10
48	KAGUYA observation of global emissions of indigenous carbon ions from the Moon. <i>Science Advances</i> , 2020, 6, eaba1050.	4.7	10
49	A candidate secular variation model for IGRF-13 based on MHD dynamo simulation and 4DEnVar data assimilation. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	10
50	Nongyrotropic electron velocity distribution functions near the lunar surface. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	9
51	Harmonics of whistler-mode waves near the Moon. <i>Earth, Planets and Space</i> , 2015, 67, 36.	0.9	9
52	Plasmoid formation for multiple onset substorms: observations of the Japanese Lunar Mission "Kaguya". <i>Annales Geophysicae</i> , 2009, 27, 59-64.	0.6	8
53	Electrons on closed field lines of lunar crustal fields in the solar wind wake. <i>Icarus</i> , 2015, 250, 238-248.	1.1	8
54	Control of lunar external magnetic enhancements by IMF polarity: A case study. <i>Planetary and Space Science</i> , 2012, 73, 161-167.	0.9	7

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55	Small-scale magnetic fields on the lunar surface inferred from plasma sheet electrons. <i>Geophysical Research Letters</i> , 2013, 40, 3362-3366.	1.5	7
56	Kaguya observation of the ion acceleration around a lunar crustal magnetic anomaly. <i>Planetary and Space Science</i> , 2014, 93-94, 87-95.	0.9	6
57	Grouping of whistler mode waves near the Moon. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2634-2648.	0.8	5
58	ELF magnetic fluctuations detected by Kaguya in deepest lunar wake associated with type-II protons. <i>Earth, Planets and Space</i> , 2015, 67, .	0.9	5
59	Tidal resonance of eigenmode oscillation in the early Earth's ocean and its acceleration effect on the Moon's orbital evolution. <i>Icarus</i> , 2020, 335, 113382.	1.1	5
60	Electromagnetic Ion Cyclotron Waves Detected by Kaguya and Geotail in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1146-1164.	0.8	2
61	Lunar Magnetic Field Observation and Initial Global Mapping of Lunar Magnetic Anomalies by MAP-LMAG Onboard SELENE (Kaguya). , 2010, , 219-251.		2
62	Multiple solutions of inhomogeneous H-systems with zero Dirichlet boundary conditions. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2003, 52, 239-259.	0.6	1
63	Testing a toroidal magnetic field imaging method at the core-mantle boundary using a numerical dynamo model. <i>Earth, Planets and Space</i> , 2014, 66, .	0.9	1
64	Decrease of the interplanetary magnetic field strength on the lunar dayside and over the polar region. <i>Icarus</i> , 2020, 335, 113392.	1.1	1
65	Global Maps of Solar Wind Electron Modification by Electrostatic Waves Above the Lunar Day Side: Kaguya Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095260.	1.5	1
66	Magnetic Cleanliness Program Under Control of Electromagnetic Compatibility for the SELENE (Kaguya) Spacecraft. , 2010, , 253-264.		1
67	In-flight Performance and Initial Results of Plasma Energy Angle and Composition Experiment (PACE) on SELENE (Kaguya). , 2010, , 265-303.		1
68	Polarization Reversal of Low-Frequency Magnetic Variation in the Lunar Wake. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029299.	0.8	0
69	An event study on broadband electric field noises and electron distributions in the lunar wake boundary. <i>Earth, Planets and Space</i> , 2022, 74, .	0.9	0
70	Diffuse Whistler-Mode Waves Detected by Kaguya in the Lunar Polar Region. <i>Radio Science</i> , 2022, 57, .	0.8	0