Keiji Ohtsuki

List of Publications by Year
in descending order

66 papers	1,819 citations	471509 17 h-index	330143 37 g-index
67 all docs	67 docs citations	67 times ranked	968 citing authors

#	Article	IF	Citations
1	Dust release from cold ring particles as a mechanism of spoke formation in Saturn's rings. Icarus, 2022, 378, 114920.	2.5	3
2	Disruption of Saturn's ring particles by thermal stress. Icarus, 2022, 378, 114919.	2.5	1
3	FOSSIL. II. The Rotation Periods of Small-sized Hilda Asteroids. Astrophysical Journal, Supplement Series, 2022, 259, 7.	7.7	3
4	Size Distribution of Small Jupiter Trojans in the L₅ Swarm*. Astronomical Journal, 2022, 163, 213.	4.7	6
5	FOSSIL. I. The Spin Rate Limit of Jupiter Trojans. Planetary Science Journal, 2021, 2, 191.	3.6	11
6	Size Distributions of Bluish and Reddish Small Main-belt Asteroids Obtained by Subaru/Hyper Suprime-Cam*. Astronomical Journal, 2021, 162, 280.	4.7	4
7	Size of the smallest particles in Saturn's rings. Icarus, 2020, 344, 113346.	2.5	2
8	A global system of furrows on Ganymede indicative of their creation in a single impact event. Icarus, 2020, 352, 113941.	2.5	8
9	Delivery of Pebbles from the Protoplanetary Disk into Circumplanetary Disks. Astrophysical Journal, 2020, 903, 98.	4.5	6
10	A comparative study of size frequency distributions of Jupiter Trojans, Hildas and main belt asteroids: A clue to planet migration history. Planetary and Space Science, 2019, 169, 78-85.	1.7	12
11	Multi-band photometry of trans-Neptunian objects in the Subaru Hyper Suprime-Cam survey. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	10
12	Colors of Centaurs observed by the Subaru/Hyper Suprime-Cam and implications for their origin. Publication of the Astronomical Society of Japan, 2018, 70, .	2.5	1
13	Distribution of Captured Planetesimals in Circumplanetary Gas Disks and Implications for Accretion of Regular Satellites. Astrophysical Journal, 2017, 839, 66.	4.5	33
14	Ring formation around giant planets by tidal disruption of a single passing large Kuiper belt object. Icarus, 2017, 282, 195-213.	2.5	61
15	ORBITAL CHARACTERISTICS OF PLANETESIMALS CAPTURED BY CIRCUMPLANETARY GAS DISKS. Astronomical Journal, 2016, 151, 140.	4.7	28
16	FORMATION OF CENTAURSâ€™ RINGS THROUGH THEIR PARTIAL TIDAL DISRUPTION DURING PLANETARY ENCOUNTERS. Astrophysical Journal Letters, 2016, 828, L8.	8.3	50
17	CAPTURE OF PLANETESIMALS BY WANING CIRCUMPLANETARY GAS DISKS. Astrophysical Journal, 2016, 820, 128.	4.5	26
18	FORMATION OF MULTIPLE-SATELLITE SYSTEMS FROM LOW-MASS CIRCUMPLANETARY PARTICLE DISKS. Astrophysical Journal, 2015, 799, 40.	4.5	28

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19	Saturnâ€™s F ring and shepherd satellites a natural outcome of satellite system formation. Nature Geoscience, 2015, 8, 686-689.	12.9	20
20	GRAVITATIONAL ACCRETION OF PARTICLES ONTO MOONLETS EMBEDDED IN SATURN's RINGS. Astrophysical Journal, 2014, 797, 93.	4.5	8
21	COLLISIONAL DISRUPTION OF GRAVITATIONAL AGGREGATES IN THE TIDAL ENVIRONMENT. Astrophysical Journal, 2014, 787, 56.	4.5	21
22	Temporary capture of planetesimals by a giant planet and implication for the origin of irregular satellites. Monthly Notices of the Royal Astronomical Society, 2013, 431, 1709-1718.	4.4	31
23	CAPTURE OF PLANETESIMALS BY GAS DRAG FROM CIRCUMPLANETARY DISKS. Astronomical Journal, 2013, 146, 140.	4.7	43
24	ACCRETION RATES OF MOONLETS EMBEDDED IN CIRCUMPLANETARY PARTICLE DISKS. Astronomical Journal, 2013, 146, 25.	4.7	28
25	Collisions and Gravitational Interactions between Particles in Planetary Rings. Progress of Theoretical Physics Supplement, 2012, 195, 29-47.	0.1	5
26	VISCOSITY IN PLANETARY RINGS WITH SPINNING SELF-GRAVITATING PARTICLES. Astronomical Journal, 2012, 143, 110.	4.7	14
27	DISTRIBUTION OF ACCRETING GAS AND ANGULAR MOMENTUM ONTO CIRCUMPLANETARY DISKS. Astrophysical Journal, 2012, 747, 47.	4.5	170
28	A multilayer model for thermal infrared emission of Saturnâ€™s rings. III: Thermal inertia inferred from Cassini CIRS. Icarus, 2011, 215, 107-127.	2.5	17
29	TEMPORARY CAPTURE OF PLANETESIMALS BY A PLANET FROM THEIR HELIOCENTRIC ORBITS. Astronomical Journal, 2011, 142, 200.	4.7	36
30	Accretion rates of planetesimals by protoplanets embedded in nebular gas. Icarus, 2010, 205, 658-673.	2.5	38
31	A multilayer model for thermal infrared emission of Saturnâ€™s rings II: Albedo, spins, and vertical mixing of ring particles inferred from Cassini CIRS. Icarus, 2010, 210, 330-345.	2.5	16
32	Spin rates of fast-rotating asteroids and fragments in impact disruption. Icarus, 2009, 200, 694-697.	2.5	10
33	A multilayer model for thermal infrared emission of Saturn's rings: Basic formulation and implications for Earth-based observations. Icarus, 2009, 201, 634-654.	2.5	18
34	Mass dispersal and angular momentum transfer during collisions between rubble-pile asteroids. II. Effects of initial rotation and spin-down through disruptive collisions. Icarus, 2009, 202, 514-524.	2.5	16
35	Dynamics of Saturn's Dense Rings. , 2009, , 413-458.		34
36	Dynamical behaviour of planetesimals temporarily captured by a planet from heliocentric orbits: basic formulation and the case of low random velocity. Monthly Notices of the Royal Astronomical Society, 2007, 377, 1763-1771.	4.4	15

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37	Mass dispersal and angular momentum transfer during collisions between rubble-pile asteroids. Icarus, 2007, 189, 256-273.	2.5	11
38	Orbital Stability of Protoplanetary Systems in Nebular Gas and Implications for Terrestrial Planet Formation. Astronomical Journal, 2006, 131, 3093-3099.	4.7	11
39	Rotation rate and velocity dispersion of planetary ring particles with size distribution. Icarus, 2006, 183, 373-383.	2.5	7
40	Rotation rate and velocity dispersion of planetary ring particles with size distribution II. Numerical simulation for gravitating particles. Icarus, 2006, 183, 384-395.	2.5	17
41	Rotation Rates of Particles in Saturn's Rings. Astrophysical Journal, 2005, 626, L61-L64.	4.5	16
42	LocalN-Body Simulations for the Rotation Rates of Particles in Planetary Rings. Astronomical Journal, 2005, 130, 1302-1310.	4.7	18
43	Semi-Analytic Formulas of Velocity Stirring Rates in Particle Disks. Symposium - International Astronomical Union, 2004, 202, 229-231.	0.1	0
44	On the rotation of a moonlet embedded in planetary rings. Icarus, 2004, 172, 432-445.	2.5	12
45	Formulation and analytic calculation for the spin angular momentum of a moonlet due to inelastic collisions of ring particles. Earth, Planets and Space, 2004, 56, 909-919.	2.5	8
46	On the isotopic fractionation of terrestrial xenon by gravitational separation inside porous planetesimals with size distribution. Geochemical Journal, 2004, 38, 455-460.	1.0	0
47	A new formulation of the viscosity in planetary rings. Icarus, 2003, 161, 144-156.	2.5	12
48	Radial diffusion rate of planetesimals due to gravitational encounters. Icarus, 2003, 162, 47-58.	2.5	8
49	Evolution of Planetesimal Velocities Based on Three-Body Orbital Integrations and Growth of Protoplanets. Icarus, 2002, 155, 436-453.	2.5	136
50	Local [ITAL]N[/ITAL]-Body Simulations for the Distribution and Evolution of Particle Velocities in Planetary Rings. Astronomical Journal, 2000, 119, 403-416.	4.7	51
51	Evaluation of collision and stirring rates in circumplanetary particle disks based on three-body orbital integrations. Planetary and Space Science, 2000, 48, 553-568.	1.7	2
52	Origin and Evolution of Terrestrial Planet Rotation. , 2000, , 101-112.		16
53	Evolution of Particle Velocity Dispersion in a Circumplanetary Disk Due to Inelastic Collisions and Gravitational Interactions. Icarus, 1999, 137, 152-177.	2.5	58
54	High-accuracy statistical simulation of planetary accretion: I. Test of the accuracy by comparison with the solution to the stochastic coagulation equation. Earth, Planets and Space, 1999, 51, 205-217.	2.5	23

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55	Planetary Rotation by Accretion of Planetesimals with Nonuniform Spatial Distribution Formed by the Planet's Gravitational Perturbation. Icarus, 1998, 131, 393-420.	2.5	44
56	Accretional Evolution of a Planetesimal Swarm. Icarus, 1997, 128, 429-455.	2.5	298
57	Capture Probability of Colliding Planetesimals: Dynamical Constraints on Accretion of Planets, Satellites, and Ring Particles. Icarus, 1993, 106, 228-246.	2.5	73
58	Equilibrium velocities in planetary rings with low optical depth. Icarus, 1992, 95, 265-282.	2.5	13
59	Evolution of random velocities of planetesimals in the course of accretion. Icarus, 1992, 98, 20-27.	2.5	32
60	Artificial acceleration in accumulation due to coarse mass-coordinate divisions in numerical simulation. Icarus, 1990, 83, 205-215.	2.5	32
61	Runaway planetary growth with collision rate in the solar gravitational field. Icarus, 1990, 85, 499-511.	2.5	24
62	Kinetic behavior of planetesimals revolving around the sun. Advances in Space Research, 1990, 10, 105-108.	2.6	10
63	Growth of the earth in nebular gas. Icarus, 1988, 75, 552-565.	2.5	38
64	Chapter 14. Dissipation of the Solar Nebula. Progress of Theoretical Physics Supplement, 1988, 96, 161-166.	0.1	1
65	Chapter 20. Accumulation Process of Planetesimals to the Planets. Progress of Theoretical Physics Supplement, 1988, 96, 239-255.	0.1	9
66	Chapter 16. Gravitational Scattering between Planetesimals and Their Statistical Behavior. Progress of Theoretical Physics Supplement, 1988, 96, 175-195.	0.1	2