

Hidenori Genda

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,901
citations

218677

26
h-index

182427

51
g-index

66
all docs

66
docs citations

66
times ranked

2104
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of two types of terrestrial planet on solidification of magma ocean. <i>Nature</i> , 2013, 497, 607-610.	27.8	292
2	Enhanced atmospheric loss on protoplanets at the giant impact phase in the presence of oceans. <i>Nature</i> , 2005, 433, 842-844.	27.8	231
3	Constraints on the Mass of a Habitable Planet with Water of Nebular Origin. <i>Astrophysical Journal</i> , 2006, 648, 696-706.	4.5	180
4	Survival of a proto-atmosphere through the stage of giant impacts: the mechanical aspects. <i>Icarus</i> , 2003, 164, 149-162.	2.5	164
5	FORMATION OF TERRESTRIAL PLANETS FROM PROTOPLANETS UNDER A REALISTIC ACCRETION CONDITION. <i>Astrophysical Journal Letters</i> , 2010, 714, L21-L25.	8.3	126
6	MERGING CRITERIA FOR GIANT IMPACTS OF PROTOPLANETS. <i>Astrophysical Journal</i> , 2012, 744, 137.	4.5	123
7	The naked planet Earth: Most essential pre-requisite for the origin and evolution of life. <i>Geoscience Frontiers</i> , 2013, 4, 141-165.	8.4	122
8	Formation of Phobos and Deimos via a giant impact. <i>Icarus</i> , 2015, 252, 334-338.	2.5	120
9	Origin of the ocean on the Earth: Early evolution of water D/H in a hydrogen-rich atmosphere. <i>Icarus</i> , 2008, 194, 42-52.	2.5	101
10	The terrestrial late veneer from core disruption of a lunar-sized impactor. <i>Earth and Planetary Science Letters</i> , 2017, 480, 25-32.	4.4	95
11	Accretion of Phobos and Deimos in an extended debris disc stirred by transient moons. <i>Nature Geoscience</i> , 2016, 9, 581-583.	12.9	91
12	On the Origin of HD 149026b. <i>Astrophysical Journal</i> , 2006, 650, 1150-1159.	4.5	86
13	WARM DEBRIS DISKS PRODUCED BY GIANT IMPACTS DURING TERRESTRIAL PLANET FORMATION. <i>Astrophysical Journal</i> , 2015, 810, 136.	4.5	72
14	Formation and Evolution of Protoatmospheres. <i>Space Science Reviews</i> , 2016, 205, 153-211.	8.1	68
15	Ring formation around giant planets by tidal disruption of a single passing large Kuiper belt object. <i>Icarus</i> , 2017, 282, 195-213.	2.5	61
16	Origin of Earth's oceans: An assessment of the total amount, history and supply of water. <i>Geochemical Journal</i> , 2016, 50, 27-42.	1.0	54
17	On the Impact Origin of Phobos and Deimos. I. Thermodynamic and Physical Aspects. <i>Astrophysical Journal</i> , 2017, 845, 125.	4.5	52
18	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	51

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19	FORMATION OF CENTAURSâ€™ RINGS THROUGH THEIR PARTIAL TIDAL DISRUPTION DURING PLANETARY ENCOUNTERS. <i>Astrophysical Journal Letters</i> , 2016, 828, L8.	8.3	50
20	Replacement and late formation of atmospheric N ₂ on undifferentiated Titan by impacts. <i>Nature Geoscience</i> , 2011, 4, 359-362.	12.9	42
21	Hydrogen Limits Carbon in Liquid Iron. <i>Geophysical Research Letters</i> , 2019, 46, 5190-5197.	4.0	42
22	Resolution dependence of disruptive collisions between planetesimals in the gravity regime. <i>Icarus</i> , 2015, 262, 58-66.	2.5	41
23	On the Impact Origin of Phobos and Deimos. II. True Polar Wander and Disk Evolution. <i>Astrophysical Journal</i> , 2017, 851, 122.	4.5	41
24	Effects of Friction and Plastic Deformation in Shockâ€™Comminuted Damaged Rocks on Impact Heating. <i>Geophysical Research Letters</i> , 2018, 45, 620-626.	4.0	38
25	Giant impacts in the Saturnian system: A possible origin of diversity in the inner mid-sized satellites. <i>Planetary and Space Science</i> , 2012, 63-64, 133-138.	1.7	34
26	Ejection of iron-bearing giant-impact fragments and the dynamical and geochemical influence of the fragment re-accretion. <i>Earth and Planetary Science Letters</i> , 2017, 470, 87-95.	4.4	31
27	The Charon-forming giant impact as a source of Plutoâ€™s dark equatorial regions. <i>Nature Astronomy</i> , 2017, 1, .	10.1	28
28	The giant impact simulations with density independent smoothed particle hydrodynamics. <i>Icarus</i> , 2016, 271, 131-157.	2.5	27
29	Hydrocode modeling of the spallation process during hypervelocity impacts: Implications for the ejection of Martian meteorites. <i>Icarus</i> , 2018, 301, 219-234.	2.5	27
30	Impact degassing and atmospheric erosion on Venus, Earth, and Mars during the late accretion. <i>Icarus</i> , 2019, 317, 48-58.	2.5	25
31	Transport of impact ejecta from Mars to its moons as a means to reveal Martian history. <i>Scientific Reports</i> , 2019, 9, 19833.	3.3	25
32	Modification of a proto-lunar disk by hydrodynamic escape of silicate vapor. <i>Earth, Planets and Space</i> , 2003, 55, 53-57.	2.5	22
33	Impact erosion model for gravity-dominated planetesimals. <i>Icarus</i> , 2017, 294, 234-246.	2.5	22
34	Dependence of the Onset of the Runaway Greenhouse Effect on the Latitudinal Surface Water Distribution of Earthâ€™Like Planets. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 559-574.	3.6	22
35	Impact-induced N ₂ production from ammonium sulfate: Implications for the origin and evolution of N ₂ in Titanâ€™s atmosphere. <i>Icarus</i> , 2010, 209, 715-722.	2.5	21
36	Assessment of the probability of microbial contamination for sample return from Martian moons II: The fate of microbes on Martian moons. <i>Life Sciences in Space Research</i> , 2019, 23, 85-100.	2.3	21

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37	Early formation of moons around large trans-Neptunian objects via giant impacts. <i>Nature Astronomy</i> , 2019, 3, 802-807.	10.1	20
38	On the Impact Origin of Phobos and Deimos. IV. Volatile Depletion. <i>Astrophysical Journal</i> , 2018, 860, 150.	4.5	18
39	RAPID WATER LOSS CAN EXTEND THE LIFETIME OF PLANETARY HABITABILITY. <i>Astrophysical Journal</i> , 2015, 812, 165.	4.5	17
40	On the Impact Origin of Phobos and Deimos. III. Resulting Composition from Different Impactors. <i>Astrophysical Journal</i> , 2018, 853, 118.	4.5	16
41	Assessment of the probability of microbial contamination for sample return from Martian moons I: Departure of microbes from Martian surface. <i>Life Sciences in Space Research</i> , 2019, 23, 73-84.	2.3	15
42	Inner Edge of Habitable Zones for Earth-Sized Planets With Various Surface Water Distributions. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2306-2324.	3.6	15
43	SPH simulations for shape deformation of rubble-pile asteroids through spinup: The challenge for making top-shaped asteroids Ryugu and Bennu. <i>Icarus</i> , 2021, 365, 114505.	2.5	15
44	Fates of hydrous materials during planetesimal collisions. <i>Icarus</i> , 2019, 328, 58-68.	2.5	14
45	Implantation of Martian Materials in the Inner Solar System by a Mega Impact on Mars. <i>Astrophysical Journal Letters</i> , 2018, 856, L36.	8.3	13
46	MIRS: an imaging spectrometer for the MMX mission. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	13
47	Numerous chondritic impactors and oxidized magma ocean set Earth's volatile depletion. <i>Scientific Reports</i> , 2021, 11, 20894.	3.3	11
48	Collisional disruption of planetesimals in the gravity regime with iSALE code: Comparison with SPH code for purely hydrodynamic bodies. <i>Icarus</i> , 2018, 314, 121-132.	2.5	10
49	Enhancement of Impact Heating in Pressure-Strengthened Rocks in Oblique Impacts. <i>Geophysical Research Letters</i> , 2019, 46, 13678-13686.	4.0	10
50	Shock Recovery With Decaying Compressive Pulses: Shock Effects in Calcite (CaCO ₃) Around the Hugoniot Elastic Limit. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	9
51	Mars in the aftermath of a colossal impact. <i>Icarus</i> , 2019, 333, 87-95.	2.5	8
52	Escape and Accretion by Cratering Impacts: Formulation of Scaling Relations for High-speed Ejecta. <i>Astrophysical Journal</i> , 2020, 898, 30.	4.5	8
53	The Role of Post-Shock Heating by Plastic Deformation During Impact Devolatilization of Calcite (CaCO ₃). <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091130.	4.0	8
54	Impact chemistry of methanol: Implications for volatile evolution on icy satellites and dwarf planets, and cometary delivery to the Moon. <i>Icarus</i> , 2014, 243, 39-47.	2.5	6

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55	Impact Ejecta Near the Impact Point Observed Using Ultra-high-Speed Imaging and SPH Simulations and a Comparison of the Two Methods. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE005943.	3.6	6
56	Modification of the composition and density of Mercury from late accretion. <i>Icarus</i> , 2021, 354, 114064.	2.5	6
57	Large planets may not form fractionally large moons. <i>Nature Communications</i> , 2022, 13, 568.	12.8	4
58	A ground-based observation of the LCROSS impact events using the Subaru Telescope. <i>Icarus</i> , 2011, 214, 21-29.	2.5	3
59	The Onset of a Globally Ice-Covered State for a Land Planet. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006975.	3.6	3
60	Giant impact onto a Vesta-like asteroid and formation of mesosiderites through mixing of metallic core and surface crust. <i>Icarus</i> , 2022, 379, 114949.	2.5	3
61	Tidal Evolution of the Eccentric Moon around Dwarf Planet (225088) Gonggong. <i>Astronomical Journal</i> , 2021, 162, 226.	4.7	2
62	Giant Impacts and Debris Disks. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 270-272.	0.0	0
63	The Complete Evaporation Limit of Land Planets. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 336-338.	0.0	0
64	Evolution of Early Atmosphere. , 2019, , 197-207.		0
65	Erosion and Accretion by Cratering Impacts on Rocky and Icy Bodies. <i>Astrophysical Journal</i> , 2021, 913, 77.	4.5	0