Hidenori Genda

List of Publications by Year
in descending order

65	2,901	218677	182427
papers	citations	26 h-index	51 g-index

66	66	66	2104
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. Earth, Planets and Space, 2022, 74, .	2.5	51
2	Large planets may not form fractionally large moons. Nature Communications, 2022, 13, 568.	12.8	4
3	Giant impact onto a Vesta-like asteroid and formation of mesosiderites through mixing of metallic core and surface crust. Icarus, 2022, 379, 114949.	2.5	3
4	Shock Recovery With Decaying Compressive Pulses: Shock Effects in Calcite (CaCO₃) Around the Hugoniot Elastic Limit. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	9
5	Modification of the composition and density of Mercury from late accretion. Icarus, 2021, 354, 114064.	2.5	6
6	The Role of Postâ€Shock Heating by Plastic Deformation During Impact Devolatilization of Calcite (CaCO₃). Geophysical Research Letters, 2021, 48, e2020GL091130.	4.0	8
7	Erosion and Accretion by Cratering Impacts on Rocky and Icy Bodies. Astrophysical Journal, 2021, 913, 77.	4.5	0
8	SPH simulations for shape deformation of rubble-pile asteroids through spinup: The challenge for making top-shaped asteroids Ryugu and Bennu. Icarus, 2021, 365, 114505.	2.5	15
9	Numerous chondritic impactors and oxidized magma ocean set Earthâ€™s volatile depletion. Scientific Reports, 2021, 11, 20894.	3.3	11
10	Tidal Evolution of the Eccentric Moon around Dwarf Planet (225088) Gonggong. Astronomical Journal, 2021, 162, 226.	4.7	2
11	The Onset of a Globally Iceâ€Covered State for a Land Planet. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006975.	3.6	3
12	MIRS: an imaging spectrometer for the MMX mission. Earth, Planets and Space, 2021, 73, .	2.5	13
13	Escape and Accretion by Cratering Impacts: Formulation of Scaling Relations for High-speed Ejecta. Astrophysical Journal, 2020, 898, 30.	4.5	8
14	Impact Ejecta Near the Impact Point Observed Using Ultraâ€highâ€Speed Imaging and SPH Simulations and a Comparison of the Two Methods. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE005943.	3.6	6
15	Impact degassing and atmospheric erosion on Venus, Earth, and Mars during the late accretion. Icarus, 2019, 317, 48-58.	2.5	25
16	Assessment of the probability of microbial contamination for sample return from Martian moons II: The fate of microbes on Martian moons. Life Sciences in Space Research, 2019, 23, 85-100.	2.3	21
17	Assessment of the probability of microbial contamination for sample return from Martian moons I: Departure of microbes from Martian surface. Life Sciences in Space Research, 2019, 23, 73-84.	2.3	15
18	Inner Edge of Habitable Zones for Earthâ€Sized Planets With Various Surface Water Distributions. Journal of Geophysical Research E: Planets, 2019, 124, 2306-2324.	3.6	15

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19	Mars in the aftermath of a colossal impact. Icarus, 2019, 333, 87-95.	2.5	8
20	Early formation of moons around large trans-Neptunian objects via giant impacts. Nature Astronomy, 2019, 3, 802-807.	10.1	20
21	Hydrogen Limits Carbon in Liquid Iron. Geophysical Research Letters, 2019, 46, 5190-5197.	4.0	42
22	Fates of hydrous materials during planetesimal collisions. Icarus, 2019, 328, 58-68.	2.5	14
23	Evolution of Early Atmosphere. , 2019, , 197-207.		0
24	Transport of impact ejecta from Mars to its moons as a means to reveal Martian history. Scientific Reports, 2019, 9, 19833.	3.3	25
25	Enhancement of Impact Heating in Pressureâ€Strengthened Rocks in Oblique Impacts. Geophysical Research Letters, 2019, 46, 13678-13686.	4.0	10
26	On the Impact Origin of Phobos and Deimos. III. Resulting Composition from Different Impactors. Astrophysical Journal, 2018, 853, 118.	4.5	16
27	Effects of Friction and Plastic Deformation in Shockâ€Comminuted Damaged Rocks on Impact Heating. Geophysical Research Letters, 2018, 45, 620-626.	4.0	38
28	Dependence of the Onset of the Runaway Greenhouse Effect on the Latitudinal Surface Water Distribution of Earthâ€Like Planets. Journal of Geophysical Research E: Planets, 2018, 123, 559-574.	3.6	22
29	Hydrocode modeling of the spallation process during hypervelocity impacts: Implications for the ejection of Martian meteorites. Icarus, 2018, 301, 219-234.	2.5	27
30	Collisional disruption of planetesimals in the gravity regime with iSALE code: Comparison with SPH code for purely hydrodynamic bodies. Icarus, 2018, 314, 121-132.	2.5	10
31	Implantation of Martian Materials in the Inner Solar System by a Mega Impact on Mars. Astrophysical Journal Letters, 2018, 856, L36.	8.3	13
32	On the Impact Origin of Phobos and Deimos. IV. Volatile Depletion. Astrophysical Journal, 2018, 860, 150.	4.5	18
33	The Charon-forming giant impact as a source of Plutoâ€™s dark equatorial regions. Nature Astronomy, 2017, 1, .	10.1	28
34	Ejection of iron-bearing giant-impact fragments and the dynamical and geochemical influence of the fragment re-accretion. Earth and Planetary Science Letters, 2017, 470, 87-95.	4.4	31
35	Impact erosion model for gravity-dominated planetesimals. Icarus, 2017, 294, 234-246.	2.5	22
36	The terrestrial late veneer from core disruption of a lunar-sized impactor. Earth and Planetary Science Letters, 2017, 480, 25-32.	4.4	95

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37	On the Impact Origin of Phobos and Deimos. I. Thermodynamic and Physical Aspects. Astrophysical Journal, 2017, 845, 125.	4.5	52
38	Ring formation around giant planets by tidal disruption of a single passing large Kuiper belt object. Icarus, 2017, 282, 195-213.	2.5	61
39	On the Impact Origin of Phobos and Deimos. II. True Polar Wander and Disk Evolution. Astrophysical Journal, 2017, 851, 122.	4.5	41
40	Accretion of Phobos and Deimos in an extended debris disc stirred by transient moons. Nature Geoscience, 2016, 9, 581-583.	12.9	91
41	The giant impact simulations with density independent smoothed particle hydrodynamics. Icarus, 2016, 271, 131-157.	2.5	27
42	Formation and Evolution of Protoatmospheres. Space Science Reviews, 2016, 205, 153-211.	8.1	68
43	FORMATION OF CENTAURSâ€™ RINGS THROUGH THEIR PARTIAL TIDAL DISRUPTION DURING PLANETARY ENCOUNTERS. Astrophysical Journal Letters, 2016, 828, L8.	8.3	50
44	Origin of Earthâ€™s oceans: An assessment of the total amount, history and supply of water. Geochemical Journal, 2016, 50, 27-42.	1.0	54
45	Resolution dependence of disruptive collisions between planetesimals in the gravity regime. Icarus, 2015, 262, 58-66.	2.5	41
46	RAPID WATER LOSS CAN EXTEND THE LIFETIME OF PLANETARY HABITABILITY. Astrophysical Journal, 2015, 812, 165.	4.5	17
47	WARM DEBRIS DISKS PRODUCED BY GIANT IMPACTS DURING TERRESTRIAL PLANET FORMATION. Astrophysical Journal, 2015, 810, 136.	4.5	72
48	Formation of Phobos and Deimos via a giant impact. Icarus, 2015, 252, 334-338.	2.5	120
49	Impact chemistry of methanol: Implications for volatile evolution on icy satellites and dwarf planets, and cometary delivery to the Moon. Icarus, 2014, 243, 39-47.	2.5	6
50	The naked planet Earth: Most essential pre-requisite for the origin and evolution of life. Geoscience Frontiers, 2013, 4, 141-165.	8.4	122
51	Emergence of two types of terrestrial planet on solidification of magma ocean. Nature, 2013, 497, 607-610.	27.8	292
52	Giant Impacts and Debris Disks. Proceedings of the International Astronomical Union, 2012, 8, 270-272.	0.0	0
53	The Complete Evaporation Limit of Land Planets. Proceedings of the International Astronomical Union, 2012, 8, 336-338.	0.0	0
54	MERGING CRITERIA FOR GIANT IMPACTS OF PROTOPLANETS. Astrophysical Journal, 2012, 744, 137.	4.5	123

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55	Giant impacts in the Saturnian system: A possible origin of diversity in the inner mid-sized satellites. Planetary and Space Science, 2012, 63-64, 133-138.	1.7	34
56	Replacement and late formation of atmospheric N2 on undifferentiated Titan by impacts. Nature Geoscience, 2011, 4, 359-362.	12.9	42
57	A ground-based observation of the LCROSS impact events using the Subaru Telescope. Icarus, 2011, 214, 21-29.	2.5	3
58	Impact-induced N2 production from ammonium sulfate: Implications for the origin and evolution of N2 in Titanâ€™s atmosphere. Icarus, 2010, 209, 715-722.	2.5	21
59	FORMATION OF TERRESTRIAL PLANETS FROM PROTOPLANETS UNDER A REALISTIC ACCRETION CONDITION. Astrophysical Journal Letters, 2010, 714, L21-L25.	8.3	126
60	Origin of the ocean on the Earth: Early evolution of water D/H in a hydrogen-rich atmosphere. Icarus, 2008, 194, 42-52.	2.5	101
61	On the Origin of HD 149026b. Astrophysical Journal, 2006, 650, 1150-1159.	4.5	86
62	Constraints on the Mass of a Habitable Planet with Water of Nebular Origin. Astrophysical Journal, 2006, 648, 696-706.	4.5	180
63	Enhanced atmospheric loss on protoplanets at the giant impact phase in the presence of oceans. Nature, 2005, 433, 842-844.	27.8	231
64	Survival of a proto-atmosphere through the stage of giant impacts: the mechanical aspects. Icarus, 2003, 164, 149-162.	2.5	164
65	Modification of a proto-lunar disk by hydrodynamic escape of silicate vapor. Earth, Planets and Space, 2003, 55, 53-57.	2.5	22