Motoo Ito

List of Publications by Year in descending order

62 papers	3,368 citations	257450 24 h-index	149698 56 g-index
72 all docs	72 docs citations	72 times ranked	3476 citing authors

#	Article	IF	Citations
1	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. Science, 2023, 379, .	12.6	97
2	Three-dimensional microstructure and mineralogy of a cosmic symplectite in the Acfer 094 carbonaceous chondrite: Implication for its origin. Geochimica Et Cosmochimica Acta, 2022, 323, 220-241.	3.9	5
3	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. Nature Astronomy, 2022, 6, 214-220.	10.1	136
4	Heterogeneous nature of the carbonaceous chondrite breccia Aguas Zarcas â€“ Cosmochemical characterization and origin of new carbonaceous chondrite lithologies. Geochimica Et Cosmochimica Acta, 2022, 334, 155-186.	3.9	7
5	The polymict carbonaceous breccia Aguas Zarcas: A potential analog to samples being returned by the OSIRISâ€REx and Hayabusa2 missions. Meteoritics and Planetary Science, 2021, 56, 277-310.	1.6	14
6	Organic matter in carbonaceous chondrite lithologies of Almahata Sitta: Incorporation of previously unsampled carbonaceous chondrite lithologies into ureilitic regolith. Meteoritics and Planetary Science, 2021, 56, 1311-1327.	1.6	5
7	Assessing the debris generated by the small carry-on impactor operated from the <i>Hayabusa2</i> mission. Geochemical Journal, 2021, 55, 223-239.	1.0	4
8	Primordial organic matter in the xenolithic clast in the Zag H chondrite: Possible relation to D/P asteroids. Geochimica Et Cosmochimica Acta, 2020, 271, 61-77.	3.9	12
9	Aerobic microbial life persists in oxic marine sediment as old as 101.5 million years. Nature Communications, 2020, 11, 3626.	12.8	72
10	Microscopic analyses of weathered granite in ion-adsorption rare earth deposit of Jianxi Province, China. Scientific Reports, 2020, 10, 20194.	3.3	21
11	Development of a sample holder for synchrotron radiation-based computed tomography and diffraction analysis of extraterrestrial materials. Review of Scientific Instruments, 2020, 91, 035107.	1.3	8
12	Deep microbial proliferation at the basalt interface in 33.5â€“104 million-year-old oceanic crust. Communications Biology, 2020, 3, 136.	4.4	29
13	The effects of possible contamination by sample holders on samples to be returned by Hayabusa2. Meteoritics and Planetary Science, 2020, 55, 1665-1680.	1.6	6
14	Temporal Evolution of Proto-Izuâ€“Boninâ€“Mariana Arc Volcanism over 10â€‰Myr: Constraints from Statistical Analysis of Melt Inclusion Compositions. Journal of Petrology, 2020, 61, .	2.8	10
15	Isolation of an archaeon at the prokaryoteâ€“eukaryote interface. Nature, 2020, 577, 519-525.	27.8	449
16	The universal sample holders of microanalytical instruments of FIB, TEM, NanoSIMS, and STXM-NEXAFS for the coordinated analysis of extraterrestrial materials. Earth, Planets and Space, 2020, 72, .	2.5	16
17	Developments in microfabrication of mineral samples for simultaneous EBSDâ€“EDS analysis utilizing an FIBâ€“SEM instrument: study on an Sâ€“type cosmic spherule from Antarctica. Journal of Mineralogical and Petrological Sciences, 2020, 115, 407-415.	0.9	5
18	Identifying volatile mantle trend with the waterâ€“fluorineâ€“cerium systematics of basaltic glass. Chemical Geology, 2019, 522, 283-294.	3.3	18

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19	Origin of the metamorphosed clasts in the <scp>CV</scp>3 carbonaceous chondrite breccias of Graves Nunataks 06101, Vigarano, Roberts Massif 04143, and Yamatoâ€86009. Meteoritics and Planetary Science, 2019, 54, 1133-1152.	1.6	1
20	Microbial Metabolism and Community Dynamics in Hydraulic Fracturing Fluids Recovered From Deep Hydrocarbon-Rich Shale. Frontiers in Microbiology, 2019, 10, 376.	3.5	13
21	GaN Schottky barrier diodes with nickel nitride anodes sputtered at different nitrogen partial pressure. Vacuum, 2019, 162, 72-77.	3.5	10
22	A novel organic-rich meteoritic clast from the outer solar system. Scientific Reports, 2019, 9, 3169.	3.3	25
23	Discovery of fossil asteroidal ice in primitive meteorite Acfer 094. Science Advances, 2019, 5, eaax5078.	10.3	33
24	Further characterization of carbonaceous materials in Hayabusaâ€returned samples to understand their origin. Meteoritics and Planetary Science, 2019, 54, 638-666.	1.6	12
25	Tiny droplets of ocean island basalts unveil Earthâ€™s deep chlorine cycle. Nature Communications, 2019, 10, 60.	12.8	26
26	STXM-XANES analyses of Murchison meteorite samples captured by aerogel after hypervelocity impacts: A potential implication of organic matter degradation for micrometeoroid collection experiments. Geochemical Journal, 2019, 53, 53-67.	1.0	9
27	Organic matter in extraterrestrial water-bearing salt crystals. Science Advances, 2018, 4, eaao3521.	10.3	64
28	Suspected meteorite fragments in marine sediments from East Antarctica. Antarctic Science, 2018, 30, 307-321.	0.9	1
29	Redistribution of Sr and rare earth elements in the matrices of CV3 carbonaceous chondrites during aqueous alteration in their parent body. Earth, Planets and Space, 2018, 70, .	2.5	4
30	High-precision <i>in situ</i> analysis of Pb isotopes in melt inclusions by LA-ICP-MS and application of Independent Component Analysis. Geochemical Journal, 2018, 52, 69-74.	1.0	3
31	The search for and analysis of direct samples of early Solar System aqueous fluids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150386.	3.4	15
32	Mnâ€“Cr ages and formation conditions of fayalite in CV3 carbonaceous chondrites: Constraints on the accretion ages of chondritic asteroids. Geochimica Et Cosmochimica Acta, 2017, 199, 58-74.	3.9	21
33	H₂O, CO₂, F, S, Cl, and P₂O₅ analyses of silicate glasses using SIMS: Report of volatile standard glasses. Geochemical Journal, 2017, 51, 299-313.	1.0	32
34	Discovery of natural MgSiO ₃ tetragonal garnet in a shocked chondritic meteorite. Science Advances, 2016, 2, e1501725.	10.3	47
35	Rare earth element measurements and mapping of minerals in the Allende <scp>CAI</scp>, 7R19â€1, by Nano<scp>SIMS</scp> ion microprobe. Meteoritics and Planetary Science, 2016, 51, 818-832.	1.6	8
36	ToF-SIMS analysis of carbonaceous particles in the sample catcher of the Hayabusa spacecraft. Earth, Planets and Space, 2015, 67, .	2.5	20

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37	26Alâ€“26Mg chronology and oxygen isotope distributions of multiple melting for a Type C CAI from Allende. Geochimica Et Cosmochimica Acta, 2015, 169, 99-114.	3.9	28
38	X-ray absorption near edge structure spectroscopic study of Hayabusa category 3 carbonaceous particles. Earth, Planets and Space, 2014, 66, .	2.5	58
39	Sequential analysis of carbonaceous materials in Hayabusa-returned samples for the determination of their origin. Earth, Planets and Space, 2014, 66, .	2.5	36
40	Terminal particle from Stardust track 130: Probable Al-rich chondrule fragment from comet Wild 2. Geochimica Et Cosmochimica Acta, 2014, 144, 277-298.	3.9	23
41	5. Detecting slow metabolism in the subseafloor: analysis of single cells using NanoSIMS. , 2014, , 101-120.		2
42	Gold-ISH: A nano-size gold particle-based phylogenetic identification compatible with NanoSIMS. Systematic and Applied Microbiology, 2014, 37, 261-266.	2.8	17
43	H, C, and N isotopic compositions of Hayabusa category 3 organic samples. Earth, Planets and Space, 2014, 66, 91.	2.5	31
44	Posteucritic magmatism on Vesta: Evidence from the petrology and thermal history of diogenites. Journal of Geophysical Research, 2011, 116, .	3.3	39
45	Nanometerâ€scale anatomy of entire Stardust tracks. Meteoritics and Planetary Science, 2011, 46, 1033-1051.	1.6	30
46	Carbon and nitrogen assimilation in deep subseafloor microbial cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18295-18300.	7.1	205
47	Caâ€“Mg diffusion in diopside: tracer and chemical inter-diffusion coefficients. Contributions To Mineralogy and Petrology, 2010, 159, 175-186.	3.1	53
48	Thermal metamorphic history of a Ca, Al-rich inclusion constrained by high spatial resolution Mg isotopic measurements with NanoSIMS 50L. Meteoritics and Planetary Science, 2010, 45, 583-595.	1.6	17
49	Thermal and fragmentation history of ureilitic asteroids: Insights from the Almahata Sitta fall. Meteoritics and Planetary Science, 2010, 45, 1789-1803.	1.6	60
50	Isotopic imaging of refractory inclusions in meteorites with the NanoSIMS 50L. Applied Surface Science, 2008, 255, 1446-1450.	6.1	23
51	Cr diffusion in orthopyroxene: Experimental determination, 53Mnâ€“53Cr thermochronology, and planetary applications. Geochimica Et Cosmochimica Acta, 2007, 71, 3915-3925.	3.9	48
52	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
53	A study of Mg and K isotopes in Allende CAIs: Implications to the time scale for the multiple heating processes. Meteoritics and Planetary Science, 2006, 41, 1871-1881.	1.6	15
54	Diffusion kinetics of Cr in olivine and 53Mnâ€“53Cr thermochronology of early solar system objects. Geochimica Et Cosmochimica Acta, 2006, 70, 799-809.	3.9	108

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55	Growth of diopside (CaMgSi2O6) single crystal by the Czochralski technique. Geochemical Journal, 2006, 40, 625-629.	1.0	6
56	Isotopic Compositions of Cometary Matter Returned by Stardust. Science, 2006, 314, 1724-1728.	12.6	343
57	Oxygen isotopic SIMS analysis in Allende CAI: details of the very early thermal history of the solar system. Geochimica Et Cosmochimica Acta, 2004, 68, 2905-2923.	3.9	42
58	Potassium diffusion in melilite: Experimental studies and constraints on the thermal history and size of planetesimals hosting CAIs. Meteoritics and Planetary Science, 2004, 39, 1911-1919.	1.6	11
59	Diffusion in single crystal of melilite: interdiffusion of Al + Al vs. Mg + Si. Physics and Chemistry of Minerals, 2001, 28, 706-710.	0.8	13
60	Isotopography. Journal of Geography (Chigaku Zasshi), 2000, 109, 836-844.	0.3	0
61	Co 2+ and Ni 2+ diffusion in olivine determined by secondary ion mass spectrometry. Physics and Chemistry of Minerals, 1999, 26, 425-431.	0.8	25
62	Copper-Nanocoated Ultra-Small Cells in Grain Boundaries Inside an Extinct Vent Chimney. Frontiers in Microbiology, 0, 13, .	3.5	3