

Motoo Ito

List of Publications by Year in descending order

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Version: 2024-02-01

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	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
2	Isolation of an archaeon at the prokaryote–eukaryote interface. <i>Nature</i> , 2020, 577, 519-525.	27.8	449
3	Isotopic Compositions of Cometary Matter Returned by Stardust. <i>Science</i> , 2006, 314, 1724-1728.	12.6	343
4	Carbon and nitrogen assimilation in deep seafloor microbial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18295-18300.	7.1	205
5	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
6	Diffusion kinetics of Cr in olivine and ^{53}Mn – ^{53}Cr thermochronology of early solar system objects. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 799-809.	3.9	108
7	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
8	Aerobic microbial life persists in oxic marine sediment as old as 101.5 million years. <i>Nature Communications</i> , 2020, 11, 3626.	12.8	72
9	Organic matter in extraterrestrial water-bearing salt crystals. <i>Science Advances</i> , 2018, 4, eaao3521.	10.3	64
10	Thermal and fragmentation history of ureilitic asteroids: Insights from the Almahata Sitta fall. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1789-1803.	1.6	60
11	X-ray absorption near edge structure spectroscopic study of Hayabusa category 3 carbonaceous particles. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	58
12	Ca–Mg diffusion in diopside: tracer and chemical inter-diffusion coefficients. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 175-186.	3.1	53
13	Cr diffusion in orthopyroxene: Experimental determination, ^{53}Mn – ^{53}Cr thermochronology, and planetary applications. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3915-3925.	3.9	48
14	Discovery of natural MgSiO_3 tetragonal garnet in a shocked chondritic meteorite. <i>Science Advances</i> , 2016, 2, e1501725.	10.3	47
15	Oxygen isotopic SIMS analysis in Allende CAI: details of the very early thermal history of the solar system. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2905-2923.	3.9	42
16	Posteutritic magmatism on Vesta: Evidence from the petrology and thermal history of diogenites. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
17	Sequential analysis of carbonaceous materials in Hayabusa-returned samples for the determination of their origin. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	36
18	Discovery of fossil asteroidal ice in primitive meteorite Acfer 094. <i>Science Advances</i> , 2019, 5, eaax5078.	10.3	33

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19	H, O, CO ₂ , F, S, Cl, and P ₂ O ₅ analyses of silicate glasses using SIMS: Report of volatile standard glasses. <i>Geochemical Journal</i> , 2017, 51, 299-313.	1.0	32
20	H, C, and N isotopic compositions of Hayabusa category 3 organic samples. <i>Earth, Planets and Space</i> , 2014, 66, 91.	2.5	31
21	Nanometer-scale anatomy of entire Stardust tracks. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1033-1051.	1.6	30
22	Deep microbial proliferation at the basalt interface in 33.5–104 million-year-old oceanic crust. <i>Communications Biology</i> , 2020, 3, 136.	4.4	29
23	²⁶ Al– ²⁶ Mg chronology and oxygen isotope distributions of multiple melting for a Type C CAI from Allende. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 169, 99-114.	3.9	28
24	Tiny droplets of ocean island basalts unveil Earth's deep chlorine cycle. <i>Nature Communications</i> , 2019, 10, 60.	12.8	26
25	Co ²⁺ and Ni ²⁺ diffusion in olivine determined by secondary ion mass spectrometry. <i>Physics and Chemistry of Minerals</i> , 1999, 26, 425-431.	0.8	25
26	A novel organic-rich meteoritic clast from the outer solar system. <i>Scientific Reports</i> , 2019, 9, 3169.	3.3	25
27	Isotopic imaging of refractory inclusions in meteorites with the NanoSIMS 50L. <i>Applied Surface Science</i> , 2008, 255, 1446-1450.	6.1	23
28	Terminal particle from Stardust track 130: Probable Al-rich chondrule fragment from comet Wild 2. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 144, 277-298.	3.9	23
29	Mn–Cr ages and formation conditions of fayalite in CV3 carbonaceous chondrites: Constraints on the accretion ages of chondritic asteroids. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 58-74.	3.9	21
30	Microscopic analyses of weathered granite in ion-adsorption rare earth deposit of Jianxi Province, China. <i>Scientific Reports</i> , 2020, 10, 20194.	3.3	21
31	ToF-SIMS analysis of carbonaceous particles in the sample catcher of the Hayabusa spacecraft. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	20
32	Identifying volatile mantle trend with the water–fluorine–cerium systematics of basaltic glass. <i>Chemical Geology</i> , 2019, 522, 283-294.	3.3	18
33	Thermal metamorphic history of a Ca, Al-rich inclusion constrained by high spatial resolution Mg isotopic measurements with NanoSIMS 50L. <i>Meteoritics and Planetary Science</i> , 2010, 45, 583-595.	1.6	17
34	Gold-ISH: A nano-size gold particle-based phylogenetic identification compatible with NanoSIMS. <i>Systematic and Applied Microbiology</i> , 2014, 37, 261-266.	2.8	17
35	The universal sample holders of microanalytical instruments of FIB, TEM, NanoSIMS, and STXM-NEXAFS for the coordinated analysis of extraterrestrial materials. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	16
36	A study of Mg and K isotopes in Allende CAIs: Implications to the time scale for the multiple heating processes. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1871-1881.	1.6	15

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37	The search for and analysis of direct samples of early Solar System aqueous fluids. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20150386.	3.4	15
38	The polymict carbonaceous breccia Aguas Zarcas: A potential analog to samples being returned by the OSIRIS-REx and Hayabusa2 missions. <i>Meteoritics and Planetary Science</i> , 2021, 56, 277-310.	1.6	14
39	Diffusion in single crystal of melilite: interdiffusion of Al + Al vs. Mg + Si. <i>Physics and Chemistry of Minerals</i> , 2001, 28, 706-710.	0.8	13
40	Microbial Metabolism and Community Dynamics in Hydraulic Fracturing Fluids Recovered From Deep Hydrocarbon-Rich Shale. <i>Frontiers in Microbiology</i> , 2019, 10, 376.	3.5	13
41	Further characterization of carbonaceous materials in Hayabusa-returned samples to understand their origin. <i>Meteoritics and Planetary Science</i> , 2019, 54, 638-666.	1.6	12
42	Primordial organic matter in the xenolithic clast in the Zag H chondrite: Possible relation to D/P asteroids. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 271, 61-77.	3.9	12
43	Potassium diffusion in melilite: Experimental studies and constraints on the thermal history and size of planetesimals hosting CAIs. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1911-1919.	1.6	11
44	GaN Schottky barrier diodes with nickel nitride anodes sputtered at different nitrogen partial pressure. <i>Vacuum</i> , 2019, 162, 72-77.	3.5	10
45	Temporal Evolution of Proto-Izu-Bonin Mariana Arc Volcanism over 10%Myr: Constraints from Statistical Analysis of Melt Inclusion Compositions. <i>Journal of Petrology</i> , 2020, 61, .	2.8	10
46	STXM-XANES analyses of Murchison meteorite samples captured by aerogel after hypervelocity impacts: A potential implication of organic matter degradation for micrometeoroid collection experiments. <i>Geochemical Journal</i> , 2019, 53, 53-67.	1.0	9
47	Rare earth element measurements and mapping of minerals in the Allende <sc>CAI</sc>, 7R19-1, by Nano<sc>SIMS</sc> ion microprobe. <i>Meteoritics and Planetary Science</i> , 2016, 51, 818-832.	1.6	8
48	Development of a sample holder for synchrotron radiation-based computed tomography and diffraction analysis of extraterrestrial materials. <i>Review of Scientific Instruments</i> , 2020, 91, 035107.	1.3	8
49	Heterogeneous nature of the carbonaceous chondrite breccia Aguas Zarcas - Cosmochemical characterization and origin of new carbonaceous chondrite lithologies. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 334, 155-186.	3.9	7
50	Growth of diopside (CaMgSi2O6) single crystal by the Czochralski technique. <i>Geochemical Journal</i> , 2006, 40, 625-629.	1.0	6
51	The effects of possible contamination by sample holders on samples to be returned by Hayabusa2. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1665-1680.	1.6	6
52	Organic matter in carbonaceous chondrite lithologies of Almahata Sitta: Incorporation of previously unsampled carbonaceous chondrite lithologies into ureilitic regolith. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1311-1327.	1.6	5
53	Developments in microfabrication of mineral samples for simultaneous EBSD-EDS analysis utilizing an FIB-SEM instrument: study on an S-type cosmic spherule from Antarctica. <i>Journal of Mineralogical and Petrological Sciences</i> , 2020, 115, 407-415.	0.9	5
54	Three-dimensional microstructure and mineralogy of a cosmic symplectite in the Acfer 094 carbonaceous chondrite: Implication for its origin. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 323, 220-241.	3.9	5

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55	Redistribution of Sr and rare earth elements in the matrices of CV3 carbonaceous chondrites during aqueous alteration in their parent body. <i>Earth, Planets and Space</i> , 2018, 70, .	2.5	4
56	Assessing the debris generated by the small carry-on impactor operated from the <i>Hayabusa2</i> mission. <i>Geochemical Journal</i> , 2021, 55, 223-239.	1.0	4
57	High-precision <i>in situ</i> analysis of Pb isotopes in melt inclusions by LA-ICP-MS and application of Independent Component Analysis. <i>Geochemical Journal</i> , 2018, 52, 69-74.	1.0	3
58	Copper-Nanocoated Ultra-Small Cells in Grain Boundaries Inside an Extinct Vent Chimney. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	3
59	5. Detecting slow metabolism in the seafloor: analysis of single cells using NanoSIMS. , 2014, , 101-120.		2
60	Suspected meteorite fragments in marine sediments from East Antarctica. <i>Antarctic Science</i> , 2018, 30, 307-321.	0.9	1
61	Origin of the metamorphosed clasts in the <sc>CV</sc>3 carbonaceous chondrite breccias of Graves Nunataks 06101, Vigarano, Roberts Massif 04143, and Yamatoâ€6009. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1133-1152.	1.6	1
62	Isotopography. <i>Journal of Geography (Chigaku Zasshi)</i> , 2000, 109, 836-844.	0.3	0