

Naoya Imae

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

613
citations

687363

13
h-index

610901

24
g-index

35
all docs

35
docs citations

35
times ranked

832
citing authors

#	ARTICLE	IF	CITATIONS
1	Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth. <i>Science</i> , 2022, 375, 1011-1016.	12.6	78
2	Cometary dust in Antarctic ice and snow: Past and present chondritic porous micrometeorites preserved on the Earth's surface. <i>Earth and Planetary Science Letters</i> , 2015, 410, 1-11.	4.4	77
3	NIRS3: The Near Infrared Spectrometer on Hayabusa2. <i>Space Science Reviews</i> , 2017, 208, 317-337.	8.1	60
4	Petrology of the Miller Range 03346 nakhlite in comparison with the Yamato 000593 nakhlite. <i>Meteoritics and Planetary Science</i> , 2007, 42, 171-184.	1.6	45
5	Variation of mineralogy and organic material during the early stages of aqueous activity recorded in Antarctic micrometeorites. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 208, 119-144.	3.9	40
6	Laihunite and jarosite in the Yamato 00 nakhlites: Alteration products on Mars?. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	33
7	The most primitive CM chondrites, Asuka 12085, 12169, and 12236, of subtypes 3.0-2.8: Their characteristic features and classification. <i>Polar Science</i> , 2020, 26, 100565.	1.2	33
8	Micrometeorite precursors: Clues from the mineralogy and petrology of their relict minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 100, 116-157.	3.9	29
9	Primordial, thermal, and shock features of ordinary chondrites: Emulating bulk X-ray diffraction using in-plane rotation of polished thin sections. <i>Meteoritics and Planetary Science</i> , 2019, 54, 919-937.	1.6	29
10	An experimental study of enstatite formation reaction between forsterite and Si-rich gas. <i>Earth and Planetary Science Letters</i> , 1993, 118, 21-30.	4.4	23
11	Petrology of the Yamato nakhlites. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1581-1598.	1.6	22
12	High-pressure polymorphs of magnesian orthopyroxene from a shock vein in the Yamato-000047 lherzolitic shergottite. <i>Meteoritics and Planetary Science</i> , 2010, 45, 43.	1.6	19
13	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
14	Petrology and bulk chemistry of Yamato 82094, a new type of carbonaceous chondrite. <i>Meteoritics and Planetary Science</i> , 2014, 49, 346-357.	1.6	12
15	A new mineralogical approach for CO_3 chondrite characterization by X-ray diffraction: Identification of primordial phases and thermal history. <i>Meteoritics and Planetary Science</i> , 2018, 53, 232-248.	1.6	10
16	Estimate of the magnetic field of Mars based on the magnetic characteristics of the Yamato 000593 nakhlite. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1179-1191.	1.6	8
17	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
18	Two-stage plume melting: A possible mechanism for the origin of martian magmatism. <i>Earth and Planetary Science Letters</i> , 2005, 235, 469-479.	4.4	7

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19	Crystallization experiments of intercumulus melts for nakhlites under QFM ± 2 at 1 bar. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1299-1319.	1.6	6
20	Petrology and mineralogy of the shock-melted H chondrites Yamato 791088 and LaPaz Ice Field 02240. <i>Polar Science</i> , 2011, 4, 558-573.	1.2	6
21	Bulk chemical compositions of Antarctic meteorites in the NIPR collection. <i>Polar Science</i> , 2018, 15, 24-28.	1.2	6
22	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
23	An experimental study of chondrule formation from chondritic precursors via evaporation and condensation in Knudsen cell: Shock heating model of dust aggregates. <i>Earth and Planetary Science Letters</i> , 2017, 473, 256-268.	4.4	5
24	Estimation of shock degrees of eucrites using X-ray diffraction and petrographic methods. <i>Polar Science</i> , 2020, 26, 100605.	1.2	5
25	The nature of the CM parent asteroid regolith based on cosmic ray exposure ages. <i>Meteoritics and Planetary Science</i> , 2021, 56, 49-55.	1.6	5
26	Developments in microfabrication of mineral samples for simultaneous EBSD-EDS analysis utilizing an FIB-SEM instrument: study on a type cosmic spherule from Antarctica. <i>Journal of Mineralogical and Petrological Sciences</i> , 2020, 115, 407-415.	0.9	5
27	Direct Evidence of Sulfidation of Metallic Grain in Chondrites.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1994, 70, 133-137.	3.8	4
28	UV-visible-infrared spectral survey of Antarctic carbonaceous chondrite chips. <i>Polar Science</i> , 2021, 29, 100723.	1.2	4
29	An Almahata Sitta EL3 fragment: implications for the complex thermal history of enstatite chondrites. <i>Progress in Earth and Planetary Science</i> , 2021, 8, .	3.0	4
30	Petrology and classification of A 9003, A 09535, and Y 82094: A new type of carbonaceous chondrite. <i>Meteoritics and Planetary Science</i> , 2022, 57, 302-316.	1.6	3
31	Cometary dust in Antarctic micrometeorites. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 123-129.	0.0	2
32	Quantitative determination of the shock stage of L6 ordinary chondrites using X-ray diffraction. <i>American Mineralogist</i> , 2021, 106, 1470-1479.	1.9	2
33	New measurement technique for characterizing small extraterrestrial materials by X-ray diffraction using the Gandolfi attachment. <i>Meteoritics and Planetary Science</i> , 2021, 56, 174-191.	1.6	1
34	An experimental study of hydrous mineral formation by reaction between forsterite and water vapor. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1999, 75, 229-234.	3.8	0
35	35 Seasons of US Antarctic Meteorites: A Pictorial Guide to the Collection Edited by K. Righter, C.M. Corrigan, T.J. McCoy & R.P. Harvey John Wiley & Sons, Hoboken NJ, 2014. ISBN-13 978-1-11879-832-4, hardcover, 195 pp + 112 unnumbered pp. £66.95.. <i>Antarctic Science</i> , 2015, 27, 417-417.	0.9	0