

Nobumichi Shimizu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11902519/publications.pdf>

Version: 2024-02-01

67
papers

7,091
citations

76326

40
h-index

98798

67
g-index

68
all docs

68
docs citations

68
times ranked

4150
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ measurements of magmatic volatile elements, F, S, and Cl, by electron microprobe, secondary ion mass spectrometry, and heavy ion elastic recoil detection analysis. <i>American Mineralogist</i> , 2020, 105, 616-626.	1.9	12
2	Grain scale processes recorded by oxygen isotopes in olivine-hosted melt inclusions from two MORB samples. <i>Chemical Geology</i> , 2019, 511, 11-20.	3.3	4
3	Oxidising agents in sub-arc mantle melts link slab devolatilisation and arc magmas. <i>Nature Communications</i> , 2018, 9, 3500.	12.8	91
4	Mantle to surface degassing of carbon- and sulphur-rich alkaline magma at El Hierro, Canary Islands. <i>Earth and Planetary Science Letters</i> , 2017, 460, 268-280.	4.4	67
5	Weekly to monthly time scale of melt inclusion entrapment prior to eruption recorded by phosphorus distribution in olivine from mid-ocean ridges. <i>Geology</i> , 2017, 45, 1059-1062.	4.4	25
6	Carbon and sulfur budget of the silicate Earth explained by accretion of differentiated planetary embryos. <i>Nature Geoscience</i> , 2016, 9, 781-785.	12.9	75
7	Crystallization depth beneath an oceanic detachment fault (ODP Hole 923A, Mid-Atlantic Ridge). <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 162-180.	2.5	5
8	Experimental investigation of the S and S-isotope distribution between H ₂ O±Cl fluids and basaltic melts during decompression. <i>Chemical Geology</i> , 2015, 393-394, 36-54.	3.3	36
9	Chalcophile behavior of thallium during MORB melting and implications for the sulfur content of the mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4905-4919.	2.5	51
10	Volatile cycling of H ₂ O, CO ₂ , F, and Cl in the HIMU mantle: A new window provided by melt inclusions from oceanic hot spot lavas at Mid-Atlantic Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4445-4467.	2.5	67
11	Contrasting partition behavior of F and Cl during hydrous mantle melting: implications for Cl/F signature in arc magmas. <i>Progress in Earth and Planetary Science</i> , 2014, 1, .	3.0	44
12	Volatile (F and Cl) concentrations in Iwate olivine-hosted melt inclusions indicating low-temperature subduction. <i>Earth, Planets and Space</i> , 2014, 66, 81.	2.5	31
13	Sulfur isotope fractionation between fluid and andesitic melt: An experimental study. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 501-521.	3.9	24
14	Temporally variable diagenetic overgrowth on deep-sea nanofossil carbonates across Palaeogene hyperthermals and implications for isotopic analyses. <i>Marine Micropaleontology</i> , 2014, 107, 18-31.	1.2	16
15	Partitioning of carbon between Fe-rich alloy melt and silicate melt in a magma ocean – Implications for the abundance and origin of volatiles in Earth, Mars, and the Moon. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 447-471.	3.9	92
16	Carbon solution and partitioning between metallic and silicate melts in a shallow magma ocean: Implications for the origin and distribution of terrestrial carbon. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 102, 191-212.	3.9	129
17	Post-entrapment modification of volatiles and oxygen fugacity in olivine-hosted melt inclusions. <i>Earth and Planetary Science Letters</i> , 2013, 374, 145-155.	4.4	193
18	B content and Si/C ratios from cultured diatoms (<i>Thalassiosira pseudonana</i> and <i>Thalassiosira</i>) <i>Journal of Earth System Science</i> , 2013, 123, 322-337.	3.9	34

#	ARTICLE	IF	CITATIONS
19	Paleo-elevation and subsidence of $\frac{1}{4}$ Ma Shatsky Rise inferred from CO ₂ and H ₂ O in fresh volcanic glass. <i>Earth and Planetary Science Letters</i> , 2013, 383, 37-44.	4.4	14
20	Protracted timescales of lower crustal growth at the fast-spreading East Pacific Rise. <i>Nature Geoscience</i> , 2012, 5, 275-278.	12.9	56
21	Petrology, Trace Element and Sr, Nd, Hf Isotope Geochemistry of the North Lanzo Peridotite Massif (Western Alps, Italy). <i>Journal of Petrology</i> , 2012, 53, 2259-2306.	2.8	30
22	Mantle source heterogeneity for South Tyrrhenian magmas revealed by Pb isotopes and halogen contents of olivine-hosted melt inclusions. <i>Chemical Geology</i> , 2012, 334, 266-279.	3.3	60
23	Rapid reequilibration of H ₂ O and oxygen fugacity in olivine-hosted melt inclusions. <i>Geology</i> , 2012, 40, 915-918.	4.4	285
24	Effect of fluorine on near-liquidus phase equilibria of an Fe-Mg rich basalt. <i>Chemical Geology</i> , 2012, 312-313, 118-126.	3.3	37
25	B/Ca in coccoliths and relationship to calcification vesicle pH and dissolved inorganic carbon concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 80, 143-157.	3.9	41
26	Experimental determination of F and Cl partitioning between lherzolite and basaltic melt. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 591-609.	3.1	113
27	Explosive eruptions at mid-ocean ridges driven by CO ₂ -rich magmas. <i>Nature Geoscience</i> , 2011, 4, 260-263.	12.9	157
28	œPoseidicœ explosive eruptions at Loihi Seamount, Hawaii. <i>Geology</i> , 2010, 38, 291-294.	4.4	27
29	Explosive submarine eruptions driven by volatile-coupled degassing at Loihi Seamount, Hawaii. <i>Earth and Planetary Science Letters</i> , 2010, 295, 497-510.	4.4	26
30	Micropicking of nanofossils in preparation for analysis by secondary ion mass spectrometry. <i>Nature Protocols</i> , 2009, 4, 1038-1043.	12.0	15
31	Zircon Dating of Oceanic Crustal Accretion. <i>Science</i> , 2009, 323, 1048-1050.	12.6	88
32	CO ₂ -rich komatiitic melt inclusions in Cr-spinels within beach sand from Gorgona Island, Colombia. <i>Earth and Planetary Science Letters</i> , 2009, 288, 33-43.	4.4	34
33	The ⁸⁷ Sr/ ⁸⁶ Sr and ¹⁴³ Nd/ ¹⁴⁴ Nd disequilibrium between Polynesian hot spot lavas and the clinopyroxenes they host: Evidence complementing isotopic disequilibrium in melt inclusions. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	25
34	An experimental study of the grain-scale processes of peridotite melting: implications for major and trace element distribution during equilibrium and disequilibrium melting. <i>Contributions To Mineralogy and Petrology</i> , 2008, 156, 87-102.	3.1	20
35	Globally elevated titanium, tantalum, and niobium (TITAN) in ocean island basalts with high ³ He/ ⁴ He. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	73
36	Seasonal cycles in biogenic production and export in Northern Bay of Bengal sediment traps. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 558-580.	1.4	53

#	ARTICLE	IF	CITATIONS
37	Relationship between coccolith Sr/Ca ratios and coccolithophore production and export in the Arabian Sea and Sargasso Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 581-600.	1.4	52
38	Coccolithophore productivity response to greenhouse event of the Paleocene–Eocene Thermal Maximum. <i>Earth and Planetary Science Letters</i> , 2007, 258, 192-206.	4.4	62
39	Insights on coccolith chemistry from a new ion probe method for analysis of individually picked coccoliths. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	31
40	Trace element partitioning in Earth's lower mantle and implications for geochemical consequences of partial melting at the core–mantle boundary. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 146, 249-260.	1.9	81
41	Melt, fluid and crystal inclusions in olivine phenocrysts from Kerguelen plume-derived picritic basalts: evidence for interaction with the Kerguelen Plateau lithosphere. <i>Chemical Geology</i> , 2002, 183, 195-220.	3.3	25
42	Diffusive fractionation of trace elements during production and transport of melt in Earth's upper mantle. <i>Earth and Planetary Science Letters</i> , 2002, 198, 93-112.	4.4	80
43	Nd and Pb isotope variability in the Indus River System: implications for sediment provenance and crustal heterogeneity in the Western Himalaya. <i>Earth and Planetary Science Letters</i> , 2002, 200, 91-106.	4.4	107
44	Rare earth element diffusion in a natural pyrope single crystal at 2.8 GPa. <i>Contributions To Mineralogy and Petrology</i> , 2002, 142, 416-424.	3.1	232
45	Petrogenesis of the crust-mantle transition zone and the origin of lower crustal wehrlite in the Oman ophiolite. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	2.5	102
46	Tracing patterns of erosion and drainage in the Paleogene Himalaya through ion probe Pb isotope analysis of detrital K-feldspars in the Indus Molasse, India. <i>Earth and Planetary Science Letters</i> , 2001, 188, 475-491.	4.4	83
47	Cr-spinel, an excellent micro-container for retaining primitive melts – implications for a hydrous plume origin for komatiites. <i>Earth and Planetary Science Letters</i> , 2001, 189, 177-188.	4.4	60
48	Rare earth element diffusion in diopside: influence of temperature, pressure, and ionic radius, and an elastic model for diffusion in silicates. <i>Contributions To Mineralogy and Petrology</i> , 2001, 141, 687-703.	3.1	355
49	Melt Production Beneath Mt. Shasta from Boron Data in Primitive Melt Inclusions. <i>Science</i> , 2001, 293, 281-283.	12.6	64
50	Trace element abundances in mantle-derived minerals which bear on compositional complexities in the lithosphere of the Colorado Plateau. <i>Chemical Geology</i> , 2000, 165, 283-305.	3.3	23
51	Uranium and thorium diffusion in diopside. <i>Earth and Planetary Science Letters</i> , 1998, 160, 505-519.	4.4	75
52	Extreme Chemical Diversity in the Mantle during Eclogitic Diamond Formation: Evidence from 35 Garnet and 5 Pyroxene Inclusions in a Single Diamond. <i>International Geology Review</i> , 1998, 40, 567-578.	2.1	49
53	Osmium Isotopic Evidence for Ancient Subcontinental Lithospheric Mantle Beneath the Kerguelen Islands, Southern Indian Ocean. <i>Science</i> , 1998, 280, 418-421.	12.6	79
54	Mid-Ocean Ridge Melting: Constraints from Lithospheric Xenoliths at Oahu, Hawaii. <i>Journal of Petrology</i> , 1998, 39, 277-295.	2.8	31

#	ARTICLE	IF	CITATIONS
55	Melt and source mantle compositions in the Late Archaean: A study of strontium and neodymium isotope and trace elements in clinopyroxenes from shoshonitic alkaline rocks. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4551-4562.	3.9	24
56	Extraction of mid-ocean-ridge basalt from the upwelling mantle by focused flow of melt in dunite channels. <i>Nature</i> , 1995, 375, 747-753.	27.8	732
57	Open-system melting in the upper mantle: Constraints from the Hayachine-Miyamori ophiolite, northeastern Japan. <i>Journal of Geophysical Research</i> , 1995, 100, 22315-22335.	3.3	118
58	Evidence for hotspot-related carbonatite metasomatism in the oceanic upper mantle. <i>Nature</i> , 1993, 365, 221-227.	27.8	370
59	Evolution of the lithosphere beneath Oahu, Hawaii: rare earth element abundances in mantle xenoliths. <i>Earth and Planetary Science Letters</i> , 1993, 119, 53-69.	4.4	68
60	Relative depletion of niobium in some arc magmas and the continental crust: partitioning of K, Nb, La and Ce during melt/rock reaction in the upper mantle. <i>Earth and Planetary Science Letters</i> , 1993, 120, 111-134.	4.4	446
61	Ion microprobe analyses bearing on the composition of the upper mantle beneath the Basin and Range and Colorado Plateau Provinces. <i>Journal of Geophysical Research</i> , 1993, 98, 14091-14108.	3.3	51
62	Melting in the oceanic upper mantle: An ion microprobe study of diopsides in abyssal peridotites. <i>Journal of Geophysical Research</i> , 1990, 95, 2661-2678.	3.3	1,091
63	Strontium and samarium diffusion in diopside. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 1589-1608.	3.9	274
64	Geochemistry of ultramafic inclusions from Salt Lake Crater, Hawaii, and from Southern African kimberlites. <i>Physics and Chemistry of the Earth</i> , 1975, 9, 655-669.	0.3	42
65	GEOCHEMISTRY OF ULTRAMAFIC INCLUSIONS FROM SALT LAKE CRATER, HAWAII, AND FROM SOUTHERN AFRICAN KIMBERLITES. , 1975, , 655-669.		2
66	An experimental study of the partitioning of K, Rb, Cs, Sr and Ba between clinopyroxene and liquid at high pressures. <i>Geochimica Et Cosmochimica Acta</i> , 1974, 38, 1789-1798.	3.9	119
67	Partitioning of strontium between clinopyroxene and liquid at high pressures: preliminary experiments. <i>Earth and Planetary Science Letters</i> , 1971, 13, 134-138.	4.4	12