Oded Navon

List of Publications by Year
in descending order

62	6,187	94433	128289
papers	citations	37 h-index	60 g-index

63	63	63	2863
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Geochemical Consequences of Melt Percolation: The Upper Mantle as a Chromatographic Column. Journal of Geology, 1987, 95, 285-307.	1.4	614
2	Mantle-derived fluids in diamond micro-inclusions. Nature, 1988, 335, 784-789.	27.8	452
3	Oxygen isotope variations in phosphate of biogenic apatites, I. Fish bone apatiteâ€"rechecking the rules of the game. Earth and Planetary Science Letters, 1983, 64, 398-404.	4.4	425
4	Bubble nucleation in rhyolitic melts: Experiments at high pressure, temperature, and water content. Earth and Planetary Science Letters, 1994, 122, 267-280.	4.4	342
5	Hydrous and carbonatitic mantle fluids in fibrous diamonds from Jwaneng, Botswana. Geochimica Et Cosmochimica Acta, 1994, 58, 761-771.	3.9	316
6	The Petrogenesis of A-type Magmas from the Amram Massif, Southern Israel. Journal of Petrology, 2003, 44, 815-832.	2.8	268
7	Brine inclusions in diamonds: a new upper mantle fluid. Earth and Planetary Science Letters, 2001, 187, 323-332.	4.4	261
8	Fluid inclusions in diamonds from the Diavik mine, Canada and the evolution of diamond-forming fluids. Geochimica Et Cosmochimica Acta, 2007, 71, 723-744.	3.9	226
9	High-Mg carbonatitic microinclusions in some Yakutian diamondsâ€"a new type of diamond-forming fluid. Lithos, 2009, 112, 648-659.	1.4	181
10	A new model for the evolution of diamond-forming fluids: Evidence from microinclusion-bearing diamonds from Kankan, Guinea. Lithos, 2009, 112, 660-674.	1.4	151
11	Solid carbon dioxide in a natural diamond. Nature, 1993, 365, 42-44.	27.8	147
12	Mantle fluid evolutionâ€"a tale of one diamond. Lithos, 2004, 77, 243-253.	1.4	146
13	Bubble growth in highly viscous melts: theory, experiments, and autoexplosivity of dome lavas. Earth and Planetary Science Letters, 1998, 160, 763-776.	4.4	143
14	High internal pressures in diamond fluid inclusions determined by infrared absorption. Nature, 1991, 353, 746-748.	27.8	142
15	Bubble growth in rhyolitic melts: experimental and numerical investigation. Bulletin of Volcanology, 1996, 58, 19-32.	3.0	140
16	Raman barometry of diamond formation. Earth and Planetary Science Letters, 1999, 173, 351-360.	4.4	137
17	The Role of Lithospheric Mantle Heterogeneity in the Generation of Plio-Pleistocene Alkali Basaltic Suites from NW Harrat Ash Shaam (Israel). Journal of Petrology, 2006, 47, 1017-1050.	2.8	132
18	Vesiculation processes in silicic magmas. Geological Society Special Publication, 1998, 145, 27-50.	1.3	129

#	Article	IF	Citations
19	How unique is the Udachnaya-East kimberlite? Comparison with kimberlites from the Slave Craton (Canada) and SW Greenland. Lithos, 2009, 112, 334-346.	1.4	120
20	Bubble growth during decompression of magma: experimental and theoretical investigation. Journal of Volcanology and Geothermal Research, 2004, 129, 7-22.	2.1	107
21	TEM imaging and analysis of microinclusions in diamonds: A close look at diamond-growing fluids. American Mineralogist, 2006, 91, 353-365.	1.9	104
22	Fluid and mineral inclusions in cloudy diamonds from Koffiefontein, South Africa. Geochimica Et Cosmochimica Acta, 2004, 68, 2561-2575.	3.9	102
23	Trace element analyses of fluid-bearing diamonds from Jwaneng, Botswana. Geochimica Et Cosmochimica Acta, 1996, 60, 4711-4724.	3.9	97
24	Most diamonds were created equal. Earth and Planetary Science Letters, 2016, 443, 41-47.	4.4	86
25	Chromatographic metasomatism of the Arabianâ€"Nubian lithosphere. Earth and Planetary Science Letters, 1997, 152, 75-91.	4.4	80
26	Self-shielding in O2â€"a possible explanation for oxygen isotopic anomalies in meteorites?. Earth and Planetary Science Letters, 1985, 73, 1-16.	4.4	79
27	Submicrometer fluid inclusions in turbid-diamond coats. Earth and Planetary Science Letters, 1991, 105, 1-12.	4.4	74
28	Petrogenesis of late Neoproterozoic dikes in the northern Arabianâ€"Nubian Shield. Precambrian Research, 1998, 92, 195-213.	2.7	74
29	Carbonatitic mineralogy of natural diamond-forming fluids. Earth and Planetary Science Letters, 2010, 291, 126-137.	4.4	61
30	High-Mg carbonatitic melts in diamonds, kimberlites and the sub-continental lithosphere. Earth and Planetary Science Letters, 2011, 309, 337-347.	4.4	61
31	Comparison between LA-ICP-MS and EPMA analysis of trace elements in diamonds. Chemical Geology, 2008, 252, 158-168.	3.3	56
32	Radial variations of melt viscosity around growing bubbles and gas overpressure in vesiculating magmas. Earth and Planetary Science Letters, 2001, 186, 1-6.	4.4	53
33	Bubble nucleation as a trigger for xenolith entrapment in mantle melts. Earth and Planetary Science Letters, 2006, 245, 278-288.	4.4	53
34	High-density fluids and the growth of monocrystalline diamonds. Geochimica Et Cosmochimica Acta, 2014, 141, 145-159.	3.9	51
35	Diamond-forming fluids in fibrous diamonds: The trace-element perspective. Earth and Planetary Science Letters, 2013, 376, 110-125.	4.4	49
36	Micrometer-scale cavities in fibrous and cloudy diamonds â€" A glance into diamond dissolution events. Earth and Planetary Science Letters, 2007, 264, 89-103.	4.4	41

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37	Silicate melt inclusions in the new millennium: A review of recommended practices for preparation, analysis, and data presentation. Chemical Geology, 2021, 570, 120145.	3.3	40
38	Expansion dynamics of volatile-supersaturated liquids and bulk viscosity of bubbly magmas. Journal of Fluid Mechanics, 2002, 460, 39-56.	3.4	38
39	Cyclic activity at SoufriÃ¨re Hills Volcano, Montserrat: degassing-induced pressurization and stick-slip extrusion. Geological Society Special Publication, 2008, 307, 169-188.	1.3	37
40	IR spectroscopy: Quantitative determination of the mineralogy and bulk composition of fluid microinclusions in diamonds. Chemical Geology, 2010, 275, 26-34.	3.3	37
41	Attenuation in gas-charged magma. Journal of Volcanology and Geothermal Research, 2006, 153, 21-36.	2.1	36
42	Pressure-temperature conditions in the Wadi Kid metamorphic complex: Implications for the pan-african event in SE Sinai. Contributions To Mineralogy and Petrology, 1984, 85, 336-345.	3.1	34
43	Solid molecular nitrogen (Î´-N2) inclusions in Juina diamonds: Exsolution at the base of the transition zone. Earth and Planetary Science Letters, 2017, 464, 237-247.	4.4	31
44	Deep carbon through time: Earthâ€™s diamond record and its implications for carbon cycling and fluid speciation in the mantle. Geochimica Et Cosmochimica Acta, 2020, 275, 99-122.	3.9	26
45	Fluid Inclusions in Fibrous Diamonds. Reviews in Mineralogy and Geochemistry, 2022, 88, 475-532.	4.8	25
46	Inclusions in diamonds constrain thermo-chemical conditions during Mesozoic metasomatism of the Kaapvaal cratonic mantle. Earth and Planetary Science Letters, 2018, 491, 134-147.	4.4	22
47	The propagation of a dyke driven by gas-saturated magma. Geophysical Journal International, 2012, 189, 956-966.	2.4	21
48	Melting of H2O and CO2-bearing eclogite at 4â€“6â€¯GPa and 900â€“1200â€¯Â°C: Implications for the generation of diamond-forming fluids. Geochimica Et Cosmochimica Acta, 2019, 255, 69-87.	3.9	21
49	The petrogenesis of calc-alkaline granites from the Elat massif, Northern Arabianâ€“Nubian shield. Precambrian Research, 2013, 236, 252-264.	2.7	19
50	Transmission X-ray diffraction as a new tool for diamond fluid inclusion studies. Mineralogical Magazine, 2011, 75, 2657-2675.	1.4	17
51	OSL dating of a Pleistocene maar: Birket Ram, the Golan heights. Journal of Volcanology and Geothermal Research, 2011, 201, 397-403.	2.1	16
52	Diamonds and the Mantle Geodynamics of Carbon. , 2019, , 89-128.		16
53	Magma transport and metasomatism in the mantle; a critical review of current geochemical models; discussion. American Mineralogist, 1996, 81, 754-759.	1.9	10
54	Bubble growth in visco-elastic magma: implications to magma fragmentation and bubble nucleation. Bulletin of Volcanology, 2011, 73, 39-54.	3.0	10

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55	Pressure waves in a supersaturated bubbly magma. Geophysical Journal International, 2011, 187, 421-438.	2.4	7
56	Cratons, kimberlites and diamonds: selected papers of the 11th International Kimberlite Conference. Mineralogy and Petrology, 2018, 112, 1-3.	1.1	6
57	Multiple metasomatic diamond-forming events in a cooling lithosphere beneath Voorspoed, South Africa. Lithos, 2021, 398-399, 106285.	1.4	5
58	Chemical remanent magnetism related to the Dead Sea Rift: Evidence from Precambrian igneous rocks of Mount Timna, southern Israel. Journal of Geophysical Research, 1993, 98, 16001-16012.	3.3	4
59	Silicic microinclusions in a metasomatized eclogite from Roberts Victor mine, South Africa. Lithos, 2021, 388-389, 106057.	1.4	3
60	Damping of pressure waves in visco-elastic, saturated bubbly magma. Geological Society Special Publication, 2008, 307, 11-31.	1.3	2
61	Carbon and nitrogen systematics in nitrogen-rich, ultradeep diamonds from Sao Luiz, Brazil. Mineralogy and Petrology, 2018, 112, 301-310.	1.1	2
62	The IR Absorption Spectrum of Water in Microinclusion-Bearing Diamonds. , 2013, , 271-280.		2