

# Oded Navon

## List of Publications by Year in descending order

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62  
papers

6,187  
citations

94433

37  
h-index

128289

60  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2863  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluid Inclusions in Fibrous Diamonds. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 88, 475-532.	4.8	25
2	Silicic microinclusions in a metasomatized eclogite from Roberts Victor mine, South Africa. <i>Lithos</i> , 2021, 388-389, 106057.	1.4	3
3	Silicate melt inclusions in the new millennium: A review of recommended practices for preparation, analysis, and data presentation. <i>Chemical Geology</i> , 2021, 570, 120145.	3.3	40
4	Multiple metasomatic diamond-forming events in a cooling lithosphere beneath Voorspoed, South Africa. <i>Lithos</i> , 2021, 398-399, 106285.	1.4	5
5	Deep carbon through time: Earth's diamond record and its implications for carbon cycling and fluid speciation in the mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 275, 99-122.	3.9	26
6	Diamonds and the Mantle Geodynamics of Carbon. , 2019, , 89-128.		16
7	Melting of H <sub>2</sub> O and CO <sub>2</sub> -bearing eclogite at 4–6 GPa and 900–1200 °C: Implications for the generation of diamond-forming fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 255, 69-87.	3.9	21
8	Inclusions in diamonds constrain thermo-chemical conditions during Mesozoic metasomatism of the Kaapvaal cratonic mantle. <i>Earth and Planetary Science Letters</i> , 2018, 491, 134-147.	4.4	22
9	Cratons, kimberlites and diamonds: selected papers of the 11th International Kimberlite Conference. <i>Mineralogy and Petrology</i> , 2018, 112, 1-3.	1.1	6
10	Carbon and nitrogen systematics in nitrogen-rich, ultradeep diamonds from Sao Luiz, Brazil. <i>Mineralogy and Petrology</i> , 2018, 112, 301-310.	1.1	2
11	Solid molecular nitrogen (N <sub>2</sub> ) inclusions in Juina diamonds: Exsolution at the base of the transition zone. <i>Earth and Planetary Science Letters</i> , 2017, 464, 237-247.	4.4	31
12	Most diamonds were created equal. <i>Earth and Planetary Science Letters</i> , 2016, 443, 41-47.	4.4	86
13	High-density fluids and the growth of monocrystalline diamonds. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 141, 145-159.	3.9	51
14	The petrogenesis of calc-alkaline granites from the Elat massif, Northern Arabian–Nubian shield. <i>Precambrian Research</i> , 2013, 236, 252-264.	2.7	19
15	Diamond-forming fluids in fibrous diamonds: The trace-element perspective. <i>Earth and Planetary Science Letters</i> , 2013, 376, 110-125.	4.4	49
16	The IR Absorption Spectrum of Water in Microinclusion-Bearing Diamonds. , 2013, , 271-280.		2
17	The propagation of a dyke driven by gas-saturated magma. <i>Geophysical Journal International</i> , 2012, 189, 956-966.	2.4	21
18	Transmission X-ray diffraction as a new tool for diamond fluid inclusion studies. <i>Mineralogical Magazine</i> , 2011, 75, 2657-2675.	1.4	17

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19	High-Mg carbonatitic melts in diamonds, kimberlites and the sub-continental lithosphere. <i>Earth and Planetary Science Letters</i> , 2011, 309, 337-347.	4.4	61
20	Pressure waves in a supersaturated bubbly magma. <i>Geophysical Journal International</i> , 2011, 187, 421-438.	2.4	7
21	OSL dating of a Pleistocene maar: Birket Ram, the Golan heights. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 201, 397-403.	2.1	16
22	Bubble growth in visco-elastic magma: implications to magma fragmentation and bubble nucleation. <i>Bulletin of Volcanology</i> , 2011, 73, 39-54.	3.0	10
23	Carbonatitic mineralogy of natural diamond-forming fluids. <i>Earth and Planetary Science Letters</i> , 2010, 291, 126-137.	4.4	61
24	IR spectroscopy: Quantitative determination of the mineralogy and bulk composition of fluid microinclusions in diamonds. <i>Chemical Geology</i> , 2010, 275, 26-34.	3.3	37
25	High-Mg carbonatitic microinclusions in some Yakutian diamonds – a new type of diamond-forming fluid. <i>Lithos</i> , 2009, 112, 648-659.	1.4	181
26	How unique is the Udachnaya-East kimberlite? Comparison with kimberlites from the Slave Craton (Canada) and SW Greenland. <i>Lithos</i> , 2009, 112, 334-346.	1.4	120
27	A new model for the evolution of diamond-forming fluids: Evidence from microinclusion-bearing diamonds from Kankan, Guinea. <i>Lithos</i> , 2009, 112, 660-674.	1.4	151
28	Comparison between LA-ICP-MS and EPMA analysis of trace elements in diamonds. <i>Chemical Geology</i> , 2008, 252, 158-168.	3.3	56
29	Damping of pressure waves in visco-elastic, saturated bubbly magma. <i>Geological Society Special Publication</i> , 2008, 307, 11-31.	1.3	2
30	Cyclic activity at Soufrière Hills Volcano, Montserrat: degassing-induced pressurization and stick-slip extrusion. <i>Geological Society Special Publication</i> , 2008, 307, 169-188.	1.3	37
31	Micrometer-scale cavities in fibrous and cloudy diamonds – A glance into diamond dissolution events. <i>Earth and Planetary Science Letters</i> , 2007, 264, 89-103.	4.4	41
32	Fluid inclusions in diamonds from the Diavik mine, Canada and the evolution of diamond-forming fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 723-744.	3.9	226
33	Bubble nucleation as a trigger for xenolith entrapment in mantle melts. <i>Earth and Planetary Science Letters</i> , 2006, 245, 278-288.	4.4	53
34	Attenuation in gas-charged magma. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 21-36.	2.1	36
35	The Role of Lithospheric Mantle Heterogeneity in the Generation of Plio-Pleistocene Alkali Basaltic Suites from NW Harrat Ash Shaam (Israel). <i>Journal of Petrology</i> , 2006, 47, 1017-1050.	2.8	132
36	TEM imaging and analysis of microinclusions in diamonds: A close look at diamond-growing fluids. <i>American Mineralogist</i> , 2006, 91, 353-365.	1.9	104

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37	Mantle fluid evolution—a tale of one diamond. <i>Lithos</i> , 2004, 77, 243-253.	1.4	146
38	Bubble growth during decompression of magma: experimental and theoretical investigation. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 129, 7-22.	2.1	107
39	Fluid and mineral inclusions in cloudy diamonds from Koffiefontein, South Africa. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2561-2575.	3.9	102
40	The Petrogenesis of A-type Magmas from the Amram Massif, Southern Israel. <i>Journal of Petrology</i> , 2003, 44, 815-832.	2.8	268
41	Expansion dynamics of volatile-supersaturated liquids and bulk viscosity of bubbly magmas. <i>Journal of Fluid Mechanics</i> , 2002, 460, 39-56.	3.4	38
42	Radial variations of melt viscosity around growing bubbles and gas overpressure in vesiculating magmas. <i>Earth and Planetary Science Letters</i> , 2001, 186, 1-6.	4.4	53
43	Brine inclusions in diamonds: a new upper mantle fluid. <i>Earth and Planetary Science Letters</i> , 2001, 187, 323-332.	4.4	261
44	Raman barometry of diamond formation. <i>Earth and Planetary Science Letters</i> , 1999, 173, 351-360.	4.4	137
45	Petrogenesis of late Neoproterozoic dikes in the northern Arabian—Nubian Shield. <i>Precambrian Research</i> , 1998, 92, 195-213.	2.7	74
46	Bubble growth in highly viscous melts: theory, experiments, and autoexplosivity of dome lavas. <i>Earth and Planetary Science Letters</i> , 1998, 160, 763-776.	4.4	143
47	Vesiculation processes in silicic magmas. <i>Geological Society Special Publication</i> , 1998, 145, 27-50.	1.3	129
48	Chromatographic metasomatism of the Arabian—Nubian lithosphere. <i>Earth and Planetary Science Letters</i> , 1997, 152, 75-91.	4.4	80
49	Trace element analyses of fluid-bearing diamonds from Jwaneng, Botswana. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4711-4724.	3.9	97
50	Magma transport and metasomatism in the mantle; a critical review of current geochemical models; discussion. <i>American Mineralogist</i> , 1996, 81, 754-759.	1.9	10
51	Bubble growth in rhyolitic melts: experimental and numerical investigation. <i>Bulletin of Volcanology</i> , 1996, 58, 19-32.	3.0	140
52	Hydrous and carbonatitic mantle fluids in fibrous diamonds from Jwaneng, Botswana. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 761-771.	3.9	316
53	Bubble nucleation in rhyolitic melts: Experiments at high pressure, temperature, and water content. <i>Earth and Planetary Science Letters</i> , 1994, 122, 267-280.	4.4	342
54	Solid carbon dioxide in a natural diamond. <i>Nature</i> , 1993, 365, 42-44.	27.8	147

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55	Chemical remanent magnetism related to the Dead Sea Rift: Evidence from Precambrian igneous rocks of Mount Timna, southern Israel. <i>Journal of Geophysical Research</i> , 1993, 98, 16001-16012.	3.3	4
56	Submicrometer fluid inclusions in turbid-diamond coats. <i>Earth and Planetary Science Letters</i> , 1991, 105, 1-12.	4.4	74
57	High internal pressures in diamond fluid inclusions determined by infrared absorption. <i>Nature</i> , 1991, 353, 746-748.	27.8	142
58	Mantle-derived fluids in diamond micro-inclusions. <i>Nature</i> , 1988, 335, 784-789.	27.8	452
59	Geochemical Consequences of Melt Percolation: The Upper Mantle as a Chromatographic Column. <i>Journal of Geology</i> , 1987, 95, 285-307.	1.4	614
60	Self-shielding in O <sub>2</sub> – a possible explanation for oxygen isotopic anomalies in meteorites?. <i>Earth and Planetary Science Letters</i> , 1985, 73, 1-16.	4.4	79
61	Pressure-temperature conditions in the Wadi Kid metamorphic complex: Implications for the pan-african event in SE Sinai. <i>Contributions To Mineralogy and Petrology</i> , 1984, 85, 336-345.	3.1	34
62	Oxygen isotope variations in phosphate of biogenic apatites, I. Fish bone apatite – rechecking the rules of the game. <i>Earth and Planetary Science Letters</i> , 1983, 64, 398-404.	4.4	425