

# Paul Asimow

## List of Publications by Year in descending order

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183  
papers

8,943  
citations

50273

46  
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45310

90  
g-index

189  
all docs

189  
docs citations

189  
times ranked

6422  
citing authors

#	ARTICLE	IF	CITATIONS
1	Algorithmic modifications extending MELTS to calculate subsolidus phase relations. <i>American Mineralogist</i> , 1998, 83, 1127-1132.	1.9	618
2	Temperatures in ambient mantle and plumes: Constraints from basalts, picrites, and komatiites. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	571
3	Adiabat_1ph: A new public front-end to the MELTS, pMELTS, and pHMELTS models. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, .	2.5	405
4	Petrology of some oceanic island basalts: PRIMELT2.XLS software for primary magma calculation. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	398
5	The importance of water to oceanic mantle melting regimes. <i>Nature</i> , 2003, 421, 815-820.	27.8	333
6	Emergence of a low-viscosity channel in subduction zones through the coupling of mantle flow and thermodynamics. <i>Earth and Planetary Science Letters</i> , 2009, 278, 243-256.	4.4	327
7	A hydrous melting and fractionation model for mid-ocean ridge basalts: Application to the Mid-Atlantic Ridge near the Azores. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	281
8	<scp>PRIMELT</scp>3 <scp>MEGA.XLSM</scp> software for primary magma calculation: Peridotite primary magma MgO contents from the liquidus to the solidus. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 563-578.	2.5	279
9	Iron isotopes may reveal the redox conditions of mantle melting from Archean to Present. <i>Earth and Planetary Science Letters</i> , 2009, 288, 255-267.	4.4	260
10	Hydrogen incorporation in olivine from 2-12 GPa. <i>American Mineralogist</i> , 2006, 91, 285-294.	1.9	194
11	Contrasting geochemical signatures of fluid-absent versus fluid-fluxed melting of muscovite in metasedimentary sources: The Himalayan leucogranites. <i>Geology</i> , 2017, 45, 39-42.	4.4	184
12	Calculation of Peridotite Partial Melting from Thermodynamic Models of Minerals and Melts. III. Controls on Isobaric Melt Production and the Effect of Water on Melt Production. <i>Journal of Petrology</i> , 1999, 40, 831-851.	2.8	169
13	Calculation of Peridotite Partial Melting from Thermodynamic Models of Minerals and Melts, IV. Adiabatic Decompression and the Composition and Mean Properties of Mid-ocean Ridge Basalts. <i>Journal of Petrology</i> , 2001, 42, 963-998.	2.8	159
14	Calculation of Peridotite Partial Melting from Thermodynamic Models of Minerals and Melts. I. Review of Methods and Comparison with Experiments. <i>Journal of Petrology</i> , 1998, 39, 1091-1115.	2.8	156
15	Coupling of anatectic reactions and dissolution of accessory phases and the Sr and Nd isotope systematics of anatectic melts from a metasedimentary source. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3671-3682.	3.9	143
16	Toward an international practical pressure scale: A proposal for an IPPS ruby gauge (IPPS-Ruby2020). <i>High Pressure Research</i> , 2020, 40, 299-314.	1.2	143
17	An analysis of variations in isentropic melt productivity. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1997, 355, 255-281.	3.4	133
18	The MgSiO <sub>3</sub> system at high pressure: Thermodynamic properties of perovskite, postperovskite, and melt from global inversion of shock and static compression data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	120

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19	Shock synthesis of quasicrystals with implications for their origin in asteroid collisions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7077-7081.	7.1	112
20	Nd isotope disequilibrium during crustal anatexis: A record from the Goat Ranch migmatite complex, southern Sierra Nevada batholith, California. Geology, 2005, 33, 53.	4.4	99
21	Analysis of hydrogen in olivine by SIMS: Evaluation of standards and protocol. American Mineralogist, 2011, 96, 1725-1741.	1.9	98
22	The effect of pressure-induced solid-solid phase transitions on decompression melting of the mantle. Geochimica Et Cosmochimica Acta, 1995, 59, 4489-4506.	3.9	95
23	Shock-induced melting of MgSiO <sub>3</sub> perovskite and implications for melts in Earth's lowermost mantle. Geophysical Research Letters, 2004, 31, .	4.0	93
24	Thermodynamic properties of Mg <sub>2</sub> SiO <sub>4</sub> liquid at ultra-high pressures from shock measurements to 200 GPa on forsterite and wadsleyite. Journal of Geophysical Research, 2007, 112, .	3.3	92
25	Cation field strength effects on high pressure aluminosilicate glass structure: Multinuclear NMR and La XAFS results. Geochimica Et Cosmochimica Acta, 2009, 73, 3914-3933.	3.9	88
26	Steady-state Mantle-Melt Interactions in One Dimension: I. Equilibrium Transport and Melt Focusing. Journal of Petrology, 1999, 40, 475-494.	2.8	86
27	A model that reconciles major- and trace-element data from abyssal peridotites. Earth and Planetary Science Letters, 1999, 169, 303-319.	4.4	83
28	Room-Temperature Pressure Synthesis of Layered Black Phosphorus-Graphene Composite for Sodium-Ion Battery Anodes. ACS Nano, 2018, 12, 8323-8329.	14.6	83
29	Identifying high potential zones of gold mineralization in a sub-tropical region using Landsat-8 and ASTER remote sensing data: A case study of the Ngoura-Colomines goldfield, eastern Cameroon. Ore Geology Reviews, 2020, 122, 103530.	2.7	83
30	Nickel and helium evidence for melt above the core-mantle boundary. Nature, 2013, 493, 393-397.	27.8	77
31	Origins of chemical diversity of back-arc basin basalts: A segment-scale study of the Eastern Lau Spreading Center. Journal of Geophysical Research, 2009, 114, .	3.3	76
32	Multi-technique equation of state for Fe <sub>2</sub> SiO <sub>4</sub> melt and the density of Fe-bearing silicate melts from 0 to 161 GPa. Journal of Geophysical Research, 2012, 117, .	3.3	76
33	Quantitative polarized infrared analysis of trace OH in populations of randomly oriented mineral grains. American Mineralogist, 2006, 91, 278-284.	1.9	74
34	Effect of Al on the sharpness of the MgSiO <sub>3</sub> perovskite to post-perovskite phase transition. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	71
35	Simultaneous aluminum, silicon, and sodium coordination changes in 6 GPa sodium aluminosilicate glasses. American Mineralogist, 2009, 94, 1205-1215.	1.9	70
36	Shock-compressed MgSiO <sub>3</sub> glass, enstatite, olivine, and quartz: Optical emission, temperatures, and melting. Journal of Geophysical Research, 2004, 109, .	3.3	69

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37	A model for rutile saturation in silicate melts with applications to eclogite partial melting in subduction zones and mantle plumes. <i>Earth and Planetary Science Letters</i> , 2008, 272, 720-729.	4.4	68
38	Zonation of H <sub>2</sub> O and F Concentrations around Melt Inclusions in Olivines. <i>Journal of Petrology</i> , 2014, 55, 685-707.	2.8	68
39	Neoproterozoic boninite-series rocks in South China: A depleted mantle source modified by sediment-derived melt. <i>Chemical Geology</i> , 2014, 388, 98-111.	3.3	67
40	The Significance of Multiple Saturation Points in the Context of Polybaric Near-fractional Melting. <i>Journal of Petrology</i> , 2004, 45, 2349-2367.	2.8	66
41	Enhanced East Pacific Rise hydrothermal activity during the last two glacial terminations. <i>Science</i> , 2016, 351, 478-482.	12.6	64
42	Oxygen isotope evidence for the origin of enriched mantle beneath the mid-Atlantic ridge. <i>Earth and Planetary Science Letters</i> , 2004, 220, 297-316.	4.4	63
43	An Andean-type arc system in Rodinia constrained by the Neoproterozoic Shimian ophiolite in South China. <i>Precambrian Research</i> , 2017, 296, 93-111.	2.7	63
44	Partial melting of deeply subducted continental crust and the formation of quartzofeldspathic polyphase inclusions in the Sulu UHP eclogites. <i>Science Bulletin</i> , 2009, 54, 2580-2594.	9.0	62
45	Does sea level influence mid-ocean ridge magmatism on Milankovitch timescales?. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	51
46	Formation and Evolution of a Magmatic System in a Rifting Continental Margin: Neoproterozoic Arc- and MORB-like Dike Swarms in South China. <i>Journal of Petrology</i> , 2018, 59, 1811-1844.	2.8	50
47	Direct shock wave loading of Stishovite to 235 GPa: Implications for perovskite stability relative to an oxide assemblage at lower mantle conditions. <i>Geophysical Research Letters</i> , 2002, 29, 36-1-36-4.	4.0	46
48	Generation of talc in the mantle wedge and its role in subduction dynamics in central Mexico. <i>Earth and Planetary Science Letters</i> , 2013, 384, 81-87.	4.4	46
49	Laser-induced shock waves in condensed matter: some techniques and applications. <i>High Pressure Research</i> , 2004, 24, 409-422.	1.2	44
50	Shock compression of liquid silicates to 125 GPa: The anorthite-diopside join. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
51	Polymorphism, superheating, and amorphization of silica upon shock wave loading and release. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	42
52	Direct shock compression experiments on premolten forsterite and progress toward a consistent high-pressure equation of state for Ca <sub>2</sub> MgO <sub>3</sub> SiO <sub>2</sub> FeO liquids. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5738-5752.	3.4	42
53	Hydrous, Low-carbon Melting of Garnet Peridotite. <i>Journal of Petrology</i> , 2011, 52, 2079-2105.	2.8	40
54	High pressure minerals in the Châteaurenard (L6) ordinary chondrite: implications for collisions on its parent body. <i>Scientific Reports</i> , 2018, 8, 9851.	3.3	39

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55	Water-in-olivine magma ascent chronometry: Every crystal is a clock. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 398, 106872.	2.1	39
56	Insights into mantle melting from graphical analysis of one-component systems. <i>Numerische Mathematik</i> , 2007, 307, 1051-1139.	1.4	38
57	Molybdenum sound velocity and shear modulus softening under shock compression. <i>Physical Review B</i> , 2014, 89, .	3.2	37
58	Ultrafast growth of wadsleyite in shock-produced melts and its implications for early solar system impact processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13691-13695.	7.1	36
59	A double-spike method for $K^{40}Ar$ measurement: A technique for high precision in situ dating on Mars and other planetary surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 110, 1-12.	3.9	30
60	The late Neoproterozoic Dahanib mafic-ultramafic intrusion, South eastern Desert, Egypt: Is it an Alaskan-type or a layered intrusion?. <i>Numerische Mathematik</i> , 2017, 317, 901-940.	1.4	30
61	Manganese partitioning during hydrous melting of peridotite. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5819-5833.	3.9	29
62	Calculation of Peridotite Partial Melting from Thermodynamic Models of Minerals and Melts. III. Controls on Isobaric Melt Production and the Effect of Water on Melt Production. <i>Journal of Petrology</i> , 1999, 40, 831-851.	2.8	29
63	Determination of the partial molar volume of SiO <sub>2</sub> in silicate liquids at elevated pressures and temperatures: a new experimental approach. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 2499-2508.	3.9	27
64	On the relative timing of listwaenite formation and chromian spinel equilibration in serpentinites. <i>American Mineralogist</i> , 2018, 103, 1087-1102.	1.9	27
65	Multiple Stages of Carbonation and Element Redistribution during Formation of Ultramafic-Hosted Magnesite in Neoproterozoic Ophiolites of the Arabian-Nubian Shield, Egypt. <i>Journal of Geology</i> , 2019, 127, 81-107.	1.4	27
66	Tracking the transition from subduction-related to post-collisional magmatism in the north Arabian-Nubian Shield: A case study from the Homrit Waggat area of the Eastern Desert of Egypt. <i>Geological Journal</i> , 2020, 55, 4426-4452.	1.3	27
67	Steady-state Mantle-Melt Interactions in One Dimension: II. Thermal Interactions and Irreversible Terms. <i>Journal of Petrology</i> , 2002, 43, 1707-1724.	2.8	26
68	Grain boundary partitioning of Ar and He. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 434-451.	3.9	26
69	Highly CO <sub>2</sub> -supersaturated melts in the Pannonian lithospheric mantle – A transient carbon reservoir?. <i>Lithos</i> , 2017, 286-287, 519-533.	1.4	26
70	Geochemistry and petrogenesis of post-collisional alkaline and peralkaline granites of the Arabian-Nubian Shield: a case study from the southern tip of Sinai Peninsula, Egypt. <i>International Geology Review</i> , 2018, 60, 998-1018.	2.1	26
71	A new dense silica polymorph: A possible link between tetrahedrally and octahedrally coordinated silica. <i>American Mineralogist</i> , 2004, 89, 455-461.	1.9	25
72	Recovery of stishovite-structure at ambient conditions out of shock-generated amorphous silica. <i>American Mineralogist</i> , 2006, 91, 1857-1862.	1.9	25

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73	Secondary fluorescence effects in microbeam analysis and their impacts on geospeedometry and geothermometry. <i>Chemical Geology</i> , 2018, 490, 22-29.	3.3	25
74	Fluid outflows from Venus impact craters: Analysis from Magellan data. <i>Journal of Geophysical Research</i> , 1992, 97, 13643-13665.	3.3	24
75	Experimental study of radium partitioning between anorthite and melt at 1 atm. <i>American Mineralogist</i> , 2007, 92, 1535-1538.	1.9	23
76	High frequency seismic waves and slab structures beneath Italy. <i>Earth and Planetary Science Letters</i> , 2014, 391, 212-223.	4.4	23
77	Determination of melt influence on divalent element partitioning between anorthite and CMAS melts. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4258-4274.	3.9	22
78	Cation order/disorder behavior and crystal chemistry of pyrope-grossular garnets: An <sup>17</sup> O 3QMAS and <sup>27</sup> Al MAS NMR spectroscopic study. <i>American Mineralogist</i> , 2008, 93, 134-143.	1.9	22
79	Shock compression of preheated molybdenum to 300GPa. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 174, 302-308.	1.9	22
80	Shock Synthesis of Five-component Icosahedral Quasicrystals. <i>Scientific Reports</i> , 2017, 7, 15629.	3.3	22
81	Shock Synthesis of Decagonal Quasicrystals. <i>Scientific Reports</i> , 2017, 7, 15628.	3.3	21
82	Early Cretaceous high-Ti and low-Ti mafic magmatism in Southeastern Tibet: Insights into magmatic evolution of the Comei Large Igneous Province. <i>Lithos</i> , 2018, 296-299, 396-411.	1.4	21
83	Geochemistry of middle-late Mesozoic mafic intrusions in the eastern North China Craton: New insights on lithospheric thinning and decratonization. <i>Gondwana Research</i> , 2019, 73, 153-174.	6.0	21
84	High-pressure melt curve of shock-compressed tin measured using pyrometry and reflectance techniques. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	21
85	Configurational entropy of basaltic melts in Earth's mantle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21938-21944.	7.1	21
86	Thermodynamic properties of alloys of gold-74/palladium-26 with variable amounts of iron and the use of Au-Pd-Fe alloys as containers for experimental petrology. <i>American Mineralogist</i> , 2011, 96, 1467-1474.	1.9	20
87	Hydrogen Incorporation in Natural Mantle Olivines. <i>Geophysical Monograph Series</i> , 0, , 45-56.	0.1	20
88	Seconds after impact: Insights into the thermal history of impact ejecta from diffusion between lechatelierite and host glass in tektites and experiments. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 241, 69-94.	3.9	20
89	The last subduction-related volcanism in the northern tip of the Arabian-Nubian Shield: A Neoproterozoic arc preceding the terminal collision of East and West Gondwana. <i>Precambrian Research</i> , 2018, 310, 256-277.	2.7	18
90	Late Neoproterozoic adakitic lavas in the Arabian-Nubian shield, Sinai Peninsula, Egypt. <i>Journal of Asian Earth Sciences</i> , 2018, 158, 301-323.	2.3	17

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91	PetroPlot: A plotting and data management tool set for Microsoft Excel. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	16
92	Mineral chemistry of the Tissint meteorite: Indications of two-stage crystallization in a closed system. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2293-2315.	1.6	16
93	Tantalum sound velocity under shock compression. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	16
94	The effects of solid-solid phase equilibria on the oxygen fugacity of the upper mantle. <i>American Mineralogist</i> , 2020, 105, 1445-1471.	1.9	16
95	Accidental synthesis of a previously unknown quasicrystal in the first atomic bomb test. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16
96	Late Ediacaran post-collisional A-type syenites with shoshonitic affinities, northern Arabian-Nubian Shield: a possible mantle-derived A-type magma. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	15
97	Stishovite and its implications in geophysics: new results from shock-wave experiments and theoretical modeling. <i>Physics-Uspexhi</i> , 2002, 45, 435-439.	2.2	14
98	Fluid source-based modeling of melt initiation within the subduction zone mantle wedge: Implications for geochemical trends in arc lavas. <i>Chemical Geology</i> , 2009, 266, 297-310.	3.3	14
99	Current limitations of molecular dynamic simulations as probes of thermo-physical behavior of silicate melts. <i>American Mineralogist</i> , 2015, 100, 1866-1882.	1.9	14
100	Thermodynamically complete equation of state of MgO from true radiative shock temperature measurements on samples preheated to 1850 K. <i>Physical Review B</i> , 2018, 97, .	3.2	14
101	The Atud gabbro-diorite complex: glimpse of the Cryogenian mixing, assimilation, storage and homogenization zone beneath the Eastern Desert of Egypt. <i>Journal of the Geological Society</i> , 2020, 177, 965-980.	2.1	14
102	Genesis and geodynamic evolution of serpentinized ultramafics and associated magnesite deposits in the Al-Wask ophiolite, Arabian Shield, Saudi Arabia. <i>Numerische Mathematik</i> , 2020, 320, 236-279.	1.4	14
103	Magmatic and post-magmatic evolution of post-collisional rare-metal bearing granite: The Neoproterozoic Homrit Akarem Granitic Intrusion, south Eastern Desert of Egypt, Arabian-Nubian Shield. <i>Chemie Der Erde</i> , 2022, 82, 125840.	2.0	14
104	Ab initio study of the structure and stability of CaMg(CO <sub>3</sub> ) <sub>2</sub> at high pressure. <i>American Mineralogist</i> , 2017, 102, 210-215.	1.9	13
105	An example of post-collisional appinitic magmatism with an arc-like signature: the Wadi Nasb mafic intrusion, north Arabian-Nubian Shield, south Sinai, Egypt. <i>International Geology Review</i> , 2018, 60, 865-888.	2.1	13
106	Hydrothermal scavenging of <sup>230</sup> Th on the Southern East Pacific Rise during the last deglaciation. <i>Earth and Planetary Science Letters</i> , 2019, 510, 64-72.	4.4	13
107	Petrological characteristics of the Neoproterozoic Ess ophiolite mantle section, Arabian Shield, Saudi Arabia: a mineral chemistry perspective. <i>International Journal of Earth Sciences</i> , 2020, 109, 239-251.	1.8	13
108	First synthesis of a unique icosahedral phase from the Khatyrka meteorite by shock-recovery experiment. <i>IUCrJ</i> , 2020, 7, 434-444.	2.2	13

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109	Structure of shock compressed model basaltic glass: Insights from O K-edge X-ray Raman scattering and high-resolution <sup>27</sup> Al NMR spectroscopy. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	12
110	Mid-Neoproterozoic mafic rocks in the western Jiangnan orogen, South China: Intracontinental rifting or subduction?. <i>Journal of Asian Earth Sciences</i> , 2019, 185, 104039.	2.3	12
111	Novel crystalline carbon-cage structure synthesized from laser-driven shock wave loading of graphite. <i>Journal of Chemical Physics</i> , 2005, 123, 024703.	3.0	11
112	Equation of state of liquid bismuth and its melting curve from ultrasonic investigation at high pressure. <i>Physica B: Condensed Matter</i> , 2017, 524, 154-162.	2.7	11
113	First-principles calculations of high-pressure iron-bearing monoclinic dolomite and single-cation carbonates with internally consistent Hubbard U. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 293-302.	0.8	11
114	The potential of phosphorus in clinopyroxene as a geospeedometer: Examples from mantle xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 307-331.	3.9	11
115	Application of Al-Cu-W-Ta graded density impactors in dynamic ramp compression experiments. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	11
116	Suprasubduction-zone origin of the podiform chromitites of the Bir Tuluwah ophiolite, Saudi Arabia, during Neoproterozoic assembly of the Arabian Shield. <i>Lithos</i> , 2020, 360-361, 105439.	1.4	11
117	Late Cretaceous adakitic and A-type granitoids in Chanang, southern Tibet: Implications for Neo-Tethyan slab rollback. <i>Gondwana Research</i> , 2021, 96, 89-104.	6.0	11
118	Tests of random density models of terrestrial planets. <i>Geophysical Research Letters</i> , 1991, 18, 909-912.	4.0	10
119	Preheated shock experiments in the molten Ca <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> -CaFeSi <sub>2</sub> O <sub>6</sub> -CaMgSi <sub>2</sub> O <sub>6</sub> ternary: A test for linear mixing of liquid volumes at high pressure and temperature. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3354-3365.	3.4	10
120	Coordinated Hard Sphere Mixture (CHaSM): A simplified model for oxide and silicate melts at mantle pressures and temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 163, 40-58.	3.9	10
121	Geochemistry of the Serifos calc-alkaline granodiorite pluton, Greece: constraining the crust and mantle contributions to I-type granitoids. <i>International Journal of Earth Sciences</i> , 2018, 107, 1657-1688.	1.8	10
122	Geochemistry and Petrogenesis of Late Ediacaran Rare-metal Albite Granites of the Arabian-Nubian Shield. <i>Acta Geologica Sinica</i> , 2021, 95, 459-480.	1.4	10
123	Petrogenesis of Ultramafic Rocks from the Ultrahigh-pressure Metamorphic Kimi Complex in Eastern Rhodope (NE Greece). <i>Journal of Petrology</i> , 2008, 49, 885-909.	2.8	9
124	Contributed Review: Absolute spectral radiance calibration of fiber-optic shock-temperature pyrometers using a coiled-coil irradiance standard lamp. <i>Review of Scientific Instruments</i> , 2015, 86, 101502.	1.3	9
125	Phosphorus zoning as a recorder of crystal growth kinetics: application to second-generation olivine in mantle xenoliths from the Cima Volcanic Field. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	9
126	Petrogenesis of gold-bearing listvenites from the carbonatized mantle section of the Neoproterozoic Ess ophiolite, Western Arabian Shield, Saudi Arabia. <i>Lithos</i> , 2020, 372-373, 105679.	1.4	9



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127	Oxygen isotope constraints on the structure and evolution of the Hawaiian Plume. <i>Numerische Mathematik</i> , 2010, 310, 683-720.	1.4	8
128	MgO melting curve constraints from shock temperature and rarefaction overtake measurements in samples preheated to 2300 K. <i>Journal of Physics: Conference Series</i> , 2014, 500, 062003.	0.4	8
129	Ultramafic lavas and high-Mg basaltic dykes from the Othris ophiolite complex, Greece. <i>Lithos</i> , 2017, 288-289, 231-247.	1.4	8
130	In Situ Observations of Phase Changes in Shock Compressed Forsterite. <i>Geophysical Research Letters</i> , 2018, 45, 8129-8135.	4.0	8
131	Crystal size distribution of amphibole grown from hydrous basaltic melt at 0.6–2.6 GPa and 860–970 Å°C. <i>American Mineralogist</i> , 2019, 104, 525-535.	1.9	8
132	The common origin and alteration history of the hypabyssal and volcanic phases of the Wadi Tarr albitite complex, southern Sinai, Egypt. <i>Lithos</i> , 2019, 324-325, 821-841.	1.4	8
133	Post-collisional volcanism with adakitic signatures in the Arabian-Nubian Shield: A case study of calc-alkaline Dokhan volcanics in the Eastern Desert of Egypt. <i>Lithos</i> , 2021, 388-389, 106051.	1.4	8
134	Experimental constraints on truly conjugate alkaline silicate – carbonatite melt pairs. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117500.	4.4	8
135	Anomalous Pacific–Antarctic Ridge Volcanism Precedes Glacial Termination 2. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2478-2491.	2.5	7
136	Mineralogical and geochemical study of rodingites and associated serpentinized peridotite, Eastern Desert of Egypt, Arabian-Nubian Shield. <i>Lithos</i> , 2020, 374-375, 105720.	1.4	7
137	Femtosecond X-ray Diffraction of Laser-Shocked Forsterite ( $Mg_2SiO_4$ ) to 122 GPa. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	7
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