

# Michael Bizimis

## List of Publications by Year in descending order

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86  
papers

3,899  
citations

101543

36  
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123424

61  
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92  
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92  
docs citations

92  
times ranked

3641  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recycling oceanic crust: Quantitative constraints. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	389
2	Determination of Mn, Fe, Co, Ni, Cu, Zn, Cd and Pb in seawater using high resolution magnetic sector inductively coupled mass spectrometry (HR-ICP-MS). <i>Analytica Chimica Acta</i> , 2010, 665, 200-207.	5.4	271
3	Trace and REE content of clinopyroxenes from supra-subduction zone peridotites. Implications for melting and enrichment processes in island arcs. <i>Chemical Geology</i> , 2000, 165, 67-85.	3.3	217
4	Near mantle solidus trace element partitioning at pressures up to 3.4 GPa. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-23.	2.5	199
5	The brevity of carbonatite sources in the mantle: evidence from Hf isotopes. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 281-300.	3.1	180
6	Ancient recycled mantle lithosphere in the Hawaiian plume: Osmium and Hafnium isotopic evidence from peridotite mantle xenoliths. <i>Earth and Planetary Science Letters</i> , 2007, 257, 259-273.	4.4	137
7	Iron isotope tracing of mantle heterogeneity within the source regions of oceanic basalts. <i>Earth and Planetary Science Letters</i> , 2014, 404, 396-407.	4.4	134
8	Hf and Nd isotope decoupling in the oceanic lithosphere: constraints from spinel peridotites from Oahu, Hawaii. <i>Earth and Planetary Science Letters</i> , 2004, 217, 43-58.	4.4	108
9	Deccan plume, lithosphere rifting, and volcanism in Kutch, India. <i>Earth and Planetary Science Letters</i> , 2009, 277, 101-111.	4.4	93
10	Sewage spills are a major source of titanium dioxide engineered (nano)-particle release into the environment. <i>Environmental Science: Nano</i> , 2019, 6, 763-777.	4.3	92
11	Hf-Nd-Sr isotope systematics of garnet pyroxenites from Salt Lake Crater, Oahu, Hawaii: Evidence for a depleted component in Hawaiian volcanism. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2629-2646.	3.9	85
12	Origin of depleted basalts during subduction initiation and early development of the Izu-Bonin-Mariana island arc: Evidence from IODP expedition 351 site U1438, Amami-Sankaku basin. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 229, 85-111.	3.9	83
13	Water disequilibrium in olivines from Hawaiian peridotites: Recent metasomatism, H diffusion and magma ascent rates. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 154, 98-117.	3.9	74
14	Supercontinental inheritance and its influence on supercontinental breakup: The Central Atlantic Magmatic Province and the breakup of Pangaea. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3532-3554.	2.5	68
15	Lu-Hf and geochemical systematics of recycled ancient oceanic crust: evidence from Roberts Victor eclogites. <i>Contributions To Mineralogy and Petrology</i> , 2005, 148, 707-720.	3.1	66
16	Volcanoes of the passive margin: The youngest magmatic event in eastern North America. <i>Geology</i> , 2014, 42, 483-486.	4.4	62
17	Sampling the volatile-rich transition zone beneath Bermuda. <i>Nature</i> , 2019, 569, 398-403.	27.8	60
18	Kimberlite petrogenesis: Insights from clinopyroxene-melt partitioning experiments at 6 GPa in the CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -CO <sub>2</sub> system. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2829-2845.	3.9	59

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19	Water in Hawaiian garnet pyroxenites: Implications for water heterogeneity in the mantle. <i>Chemical Geology</i> , 2015, 397, 61-75.	3.3	59
20	Redox controls on Ni-Fe-PGE mineralization and Re/Os fractionation during serpentinization of abyssal peridotite. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 150, 11-25.	3.9	56
21	Lead isotopic fingerprinting of aerosols to characterize the sources of atmospheric lead in an industrial city of India. <i>Atmospheric Environment</i> , 2016, 129, 27-33.	4.1	55
22	The hottest lavas of the Phanerozoic and the survival of deep Archaean reservoirs. <i>Nature Geoscience</i> , 2017, 10, 451-456.	12.9	54
23	Onset of the Indian Ocean isotopic signature in the Philippine Sea Plate: Hf and Pb isotope evidence from Early Cretaceous terranes. <i>Earth and Planetary Science Letters</i> , 2008, 268, 255-267.	4.4	53
24	Hafnium-neodymium isotope systematics of the 2.7Ga Gadwal greenstone terrane, Eastern Dharwar craton, India: Implications for the evolution of the Archean depleted mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 127, 10-24.	3.9	53
25	Water in Hawaiian peridotite minerals: A case for a dry metasomatized oceanic mantle lithosphere. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1211-1232.	2.5	51
26	Isotope and trace element evidence for depleted lithosphere in the source of enriched K <sup>TM</sup> olau basalts. <i>Contributions To Mineralogy and Petrology</i> , 2006, 151, 297-312.	3.1	48
27	Implications of Eocene-age Philippine Sea and forearc basalts for initiation and early history of the Izu-Bonin-Mariana arc. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 228, 136-156.	3.9	48
28	Hawaiian mantle xenoliths and magmas: Composition and thermal character of the lithosphere. <i>American Mineralogist</i> , 2005, 90, 871-887.	1.9	44
29	Tracing mercury seawater vs. atmospheric inputs in a pristine SE USA salt marsh system: Mercury isotope evidence. <i>Chemical Geology</i> , 2013, 336, 50-61.	3.3	44
30	Seawater-derived rare earth element addition to abyssal peridotites during serpentinization. <i>Lithos</i> , 2016, 248-251, 432-454.	1.4	44
31	The composition and distribution of the rejuvenated component across the Hawaiian plume: Hf-Nd-Sr-Pb isotope systematics of Kaula lavas and pyroxenite xenoliths. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4458-4478.	2.5	43
32	Ancient helium and tungsten isotopic signatures preserved in mantle domains least modified by crustal recycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30993-31001.	7.1	41
33	A radiogenic Os component in the oceanic lithosphere? Constraints from Hawaiian pyroxenite xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4899-4916.	3.9	40
34	Recycled crust in the Galapagos Plume source at 70 Ma: Implications for plume evolution. <i>Earth and Planetary Science Letters</i> , 2015, 425, 268-277.	4.4	38
35	Hf-Nd isotope decoupling in bulk abyssal peridotites due to serpentinization. <i>Chemical Geology</i> , 2016, 440, 60-72.	3.3	38
36	Mg isotope systematics during magmatic processes: Inter-mineral fractionation in mafic to ultramafic Hawaiian xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 226, 192-205.	3.9	37

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37	Constraints on the mantle mineralogy of an ultra-slow ridge: Hafnium isotopes in abyssal peridotites and basalts from the 9°–25°E Southwest Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2015, 410, 42-53.	4.4	35
38	Record of massive upwellings from the Pacific large low shear velocity province. <i>Nature Communications</i> , 2016, 7, 13309.	12.8	34
39	Re-Os and Lu-Hf isotopic constraints on the formation and age of mantle pyroxenites from the Bohemian Massif. <i>Lithos</i> , 2016, 256-257, 197-210.	1.4	31
40	Evolution of ca. 2.5 Ga Dongargarh volcano-sedimentary Supergroup, Bastar craton, Central India: Constraints from zircon U-Pb geochronology, bulk-rock geochemistry and Hf-Nd isotope systematics. <i>Earth-Science Reviews</i> , 2019, 190, 273-309.	9.1	30
41	Petrogenesis of ultramafics in the Neoproterozoic Veligallu greenstone terrane, eastern Dharwar craton, India: Constraints from bulk-rock geochemistry and Lu-Hf isotopes. <i>Precambrian Research</i> , 2016, 285, 186-201.	2.7	27
42	U-Pb zircon constraints on the age and provenance of the Rocas Verdes basin fill, Tierra del Fuego, Argentina. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	26
43	Rift-plume interaction reveals multiple generations of recycled oceanic crust in Azores lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 218, 132-152.	3.9	26
44	Geochemistry of sulfides in Hawaiian garnet pyroxenite xenoliths: Implications for highly siderophile elements in the oceanic mantle. <i>Chemical Geology</i> , 2010, 273, 180-192.	3.3	25
45	Mesoproterozoic and Paleoproterozoic subcontinental lithospheric mantle domains beneath southern Patagonia: Isotopic evidence for its connection to Africa and Antarctica. <i>Geology</i> , 2015, 43, 39-42.	4.4	25
46	Emerging airborne contaminants in India: Platinum Group Elements from catalytic converters in motor vehicles. <i>Applied Geochemistry</i> , 2016, 75, 100-106.	3.0	25
47	Post-rift magmatic evolution of the eastern North American passive-aggressive-margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3-22.	2.5	25
48	Petrogenesis of basaltic-high-Mg andesite-adakite in the Neoproterozoic Veligallu greenstone terrane: Geochemical evidence for a rifted back-arc crust in the eastern Dharwar craton, India. <i>Precambrian Research</i> , 2015, 258, 260-277.	2.7	22
49	Retrospective study of methylmercury and other metal(loid)s in Madagascar unpolished rice ( <i>Oryza</i> ) Tj ETQq1 1 0.784314 rgBT /Over 7.5 21		
50	Long-Lived Source Heterogeneities in the Galapagos Mantle Plume. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2764-2779.	2.5	19
51	Shelf Inputs and Lateral Transport of Mn, Co, and Ce in the Western North Pacific Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	17
52	Origin of diverse geochemical signatures in igneous rocks from the West Philippine Basin: Implications for tectonic models. <i>Geophysical Monograph Series</i> , 2006, , 287-303.	0.1	17
53	Geochemical and Os-Hf-Nd-Sr Isotopic Characterization of North Patagonian Mantle Xenoliths: Implications for Extensive Melt Extraction and Percolation Processes. <i>Journal of Petrology</i> , 2016, 57, 685-715.	2.8	16
54	Age and geochemistry of volcanic clasts from DSDP Site 445, Daito Ridge and relationship to Minami-Daito Basin and early Izu-Bonin arc magmatism. <i>Journal of Asian Earth Sciences</i> , 2013, 70-71, 193-208.	2.3	15

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55	$^{42.1}$ Ga intraoceanic magmatism in the Central India Tectonic Zone: Constraints from the petrogenesis of ferropicrites in the Mahakoshal supracrustal belt. <i>Precambrian Research</i> , 2017, 302, 1-17.	2.7	14
56	An aeolian sediment reconstruction of regional wind intensity and links to larger scale climate variability since the last deglaciation from the east coast of southern Africa. <i>Global and Planetary Change</i> , 2017, 156, 59-67.	3.5	14
57	Fragments of Metasomatized Forearc: Origin and Implications of Mafic and Ultramafic Xenoliths From Kharchinsky Volcano, Kamchatka. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4426-4456.	2.5	14
58	Transition-Metal Ion Exchange Using Poly(ethylene glycol) Oligomers as Solvents. <i>Chemistry of Materials</i> , 2010, 22, 330-337.	6.7	13
59	Supraglacial microbes use young carbon and not aged cryoconite carbon. <i>Organic Geochemistry</i> , 2018, 118, 63-72.	1.8	13
60	Lead Isotope Evidence for Enhanced Anthropogenic Particle Transport to the Himalayas during Summer Months. <i>Environmental Science &amp; Technology</i> , 2021, 55, 13697-13708.	10.0	12
61	Sources vs processes: Unraveling the compositional heterogeneity of rejuvenated-type Hawaiian magmas. <i>Earth and Planetary Science Letters</i> , 2019, 514, 119-129.	4.4	11
62	Effects of melting, subduction-related metasomatism, and sub-solidus equilibration on the distribution of water contents in the mantle beneath the Rio Grande Rift. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 351-381.	3.9	11
63	Biomass-Derived Provenance Dominates Glacial Surface Organic Carbon in the Western Himalaya. <i>Environmental Science &amp; Technology</i> , 2020, 54, 8612-8621.	10.0	11
64	Metasomatism and Hydration of the Oceanic Lithosphere: a Case Study of Peridotite Xenoliths from Samoa. <i>Journal of Petrology</i> , 2020, 61, .	2.8	11
65	Low-tide rainfall effects on metal content of suspended sediment in the Sacramento-San Joaquin Delta. <i>Continental Shelf Research</i> , 2013, 56, 39-55.	1.8	9
66	Missing links for the long-lived Macdonald and Arago hotspots, South Pacific Ocean. <i>Geology</i> , 2021, 49, 541-544.	4.4	9
67	Sodalite ion exchange in polyethylene oxide oligomer solvents. <i>Journal of Materials Chemistry</i> , 2007, 17, 4530.	6.7	8
68	Mantle xenoliths from Szentb�kll, Balaton: Geochemical and petrological constraints on the evolution of the lithospheric mantle underneath Pannonian Basin, Hungary. <i>Lithos</i> , 2017, 276, 30-44.	1.4	8
69	Deepwater Expansion and Enhanced Remineralization in the Eastern Equatorial Pacific During the Last Glacial Maximum. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 563-578.	2.9	8
70	Volcaniclastic sandstones record the influence of subducted Pacific MORB on magmatism at the early Izu-Bonin arc. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 296, 170-188.	3.9	8
71	Magmatism at the Eurasian-North American modern plate boundary: Constraints from alkaline volcanism in the Chersky Belt (Yakutia). <i>Lithos</i> , 2011, 125, 825-835.	1.4	7
72	Sr, Nd, Hf and Pb isotope systematics of postshield-stage lavas at Kahoolawe, Hawaii. <i>Chemical Geology</i> , 2013, 360-361, 159-172.	3.3	7

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73	Mass Independent Fractionation of Mercury Isotopes as Source Tracers in Sediments. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 151-157.	0.6	7
74	Dust provenance and its role as a potential fertilizing agent for the Okavango Delta, Botswana. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1705-1716.	2.5	7
75	Enrichments of Metals, Including Methylmercury, in Sewage Spills in South Carolina, USA. <i>Journal of Environmental Quality</i> , 2018, 47, 1258-1266.	2.0	6
76	Salt marsh sediment and metal fluxes in response to rainfall. <i>Limnology &amp; Oceanography Fluids &amp; Environments</i> , 2012, 2, 54-66.	1.7	5
77	Isotopic Characteristics of Neogene–Quaternary Tephra From IODP Site U1438: A Record of Explosive Volcanic Activity in the Kyushu–Ryukyu Arc. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2318-2333.	2.5	5
78	Assessing Origins of End-Triassic Tholeiites From Eastern North America Using Hafnium Isotopes. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC008999.	2.5	5
79	Origins of Os-isotope and platinum-group element compositions of metasomatized peridotite and cumulate pyroxenite xenoliths from Kharchinsky Volcano, Kamchatka. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 299, 130-150.	3.9	4
80	Rare earth element uptake during olivine/water hydrothermal interaction. <i>Lithos</i> , 2019, 332-333, 147-161.	1.4	3
81	A Sediment Trap Evaluation of B/Ca as a Carbonate System Proxy in Asymbiotic and Nondinoflagellate Hosting Planktonic Foraminifera. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2019PA003682.	2.9	3
82	Distinguishing Volcanic Contributions to the Overlapping Samoan and Cook-Austral Hotspot Tracks. <i>Journal of Petrology</i> , 2022, 63, .	2.8	3
83	Response to the comment by M. Lustrino on “High-pressure melting experiments on garnet clinopyroxenite and the alkalic–tholeiitic transition in ocean-island basalts” by Keshav et al. [ <i>Earth Planet. Sci. Lett.</i> 223, 365–379 (2004)]. <i>Earth and Planetary Science Letters</i> , 2006, 241, 997-999.	4.4	1
84	Carbonatite Versus Silicate Melt Metasomatism Impacts Grain Scale $^{87}\text{Sr}/^{86}\text{Sr}$ and $^{143}\text{Nd}/^{144}\text{Nd}$ Heterogeneity in Polynesian Mantle Peridotite Xenoliths. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009749.	2.5	1
85	Neodymium Isotopes. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 967-973.	0.1	1
86	Neodymium Isotopes. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 1-6.	0.1	0