

Suzanne Y. O Reilly

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435
papers

35,471
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#	Paper	IF	Citations
435	The Hf isotope composition of cratonic mantle: LAM-MC-ICPMS analysis of zircon megacrysts in kimberlites. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 133-147	5.5	2511
434	Zircon chemistry and magma mixing, SE China: In-situ analysis of Hf isotopes, Tonglu and Pingtan igneous complexes. <i>Lithos</i> , 2002 , 61, 237-269	2.9	2014
433	Igneous zircon: trace element composition as an indicator of source rock type. <i>Contributions To Mineralogy and Petrology</i> , 2002 , 143, 602-622	3.5	1669
432	Archean crustal evolution in the northern Yilgarn Craton: U-Pb and Hf-isotope evidence from detrital zircons. <i>Precambrian Research</i> , 2004 , 131, 231-282	3.9	862
431	The growth of the continental crust: Constraints from zircon Hf-isotope data. <i>Lithos</i> , 2010 , 119, 457-466	2.9	571
430	Detrital zircon geochronology of Precambrian basement sequences in the Jiangnan orogen: Dating the assembly of the Yangtze and Cathaysia Blocks. <i>Precambrian Research</i> , 2007 , 159, 117-131	3.9	475
429	The Composition and Evolution of Lithospheric Mantle: a Re-evaluation and its Tectonic Implications. <i>Journal of Petrology</i> , 2009 , 50, 1185-1204	3.9	441
428	Zircon Crystal Morphology, Trace Element Signatures and Hf Isotope Composition as a Tool for Petrogenetic Modelling: Examples From Eastern Australian Granitoids. <i>Journal of Petrology</i> , 2006 , 47, 329-353	3.9	436
427	Phanerozoic evolution of the lithosphere beneath the Sino-Korean craton. <i>Geodynamic Series</i> , 1998 , 107-126		434
426	Zircon U-Pb and Hf isotope constraints on the Mesozoic tectonics and crustal evolution of southern Tibet. <i>Geology</i> , 2006 , 34, 745	5	433
425	Widespread Archean basement beneath the Yangtze craton. <i>Geology</i> , 2006 , 34, 417	5	417
424	Non-chondritic distribution of the highly siderophile elements in mantle sulphides. <i>Nature</i> , 2000 , 407, 891-4	50.4	380
423	The lithospheric architecture of Africa: Seismic tomography, mantle petrology, and tectonic evolution 2009 , 5, 23-50		377
422	The origin and evolution of Archean lithospheric mantle. <i>Precambrian Research</i> , 2003 , 127, 19-41	3.9	372
421	The crust of Cathaysia: Age, assembly and reworking of two terranes. <i>Precambrian Research</i> , 2007 , 158, 51-78	3.9	357
420	Components and episodic growth of Precambrian crust in the Cathaysia Block, South China: Evidence from U-Pb ages and Hf isotopes of zircons in Neoproterozoic sediments. <i>Precambrian Research</i> , 2010 , 181, 97-114	3.9	334
419	The density structure of subcontinental lithosphere through time. <i>Earth and Planetary Science Letters</i> , 2001 , 184, 605-621	5.3	334

418	Apatite as an indicator mineral for mineral exploration: trace-element compositions and their relationship to host rock type. <i>Journal of Geochemical Exploration</i> , 2002 , 76, 45-69	3.8	330
417	A Paleoproterozoic orogeny recorded in a long-lived cratonic remnant (Wuyishan terrane), eastern Cathaysia Block, China. <i>Precambrian Research</i> , 2009 , 174, 347-363	3.9	319
416	Carbonated peridotite xenoliths from Spitsbergen: implications for trace element signature of mantle carbonate metasomatism. <i>Earth and Planetary Science Letters</i> , 1993 , 119, 283-297	5.3	318
415	The nature and timing of crustal thickening in Southern Tibet: Geochemical and zircon Hf isotopic constraints from postcollisional adakites. <i>Tectonophysics</i> , 2009 , 477, 36-48	3.1	312
414	Mechanism and timing of lithospheric modification and replacement beneath the eastern North China Craton: Peridotitic xenoliths from the 100 Ma Fuxin basalts and a regional synthesis. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 5203-5225	5.5	302
413	Relict refractory mantle beneath the eastern North China block: significance for lithosphere evolution. <i>Lithos</i> , 2001 , 57, 43-66	2.9	302
412	Volatile-bearing minerals and lithophile trace elements in the upper mantle. <i>Chemical Geology</i> , 1997 , 141, 153-184	4.2	270
411	Mantle metasomatism beneath western Victoria, Australia: I. Metasomatic processes in Cr-diopside lherzolites. <i>Geochimica Et Cosmochimica Acta</i> , 1988 , 52, 433-447	5.5	268
410	3.6 Ga lower crust in central China: New evidence on the assembly of the North China craton. <i>Geology</i> , 2004 , 32, 229	5	259
409	Where was South China in the Rodinia supercontinent?. <i>Precambrian Research</i> , 2008 , 164, 1-15	3.9	240
408	Apatite in the mantle: implications for metasomatic processes and high heat production in Phanerozoic mantle. <i>Lithos</i> , 2000 , 53, 217-232	2.9	217
407	U-Pb geochronology and Hf-Nd isotopic geochemistry of the Badu Complex, Southeastern China: Implications for the Precambrian crustal evolution and paleogeography of the Cathaysia Block. <i>Precambrian Research</i> , 2012 , 222-223, 424-449	3.9	213
406	The evolution of lithospheric mantle beneath the Kalahari Craton and its margins. <i>Lithos</i> , 2003 , 71, 215-240	2.9	212
405	A xenolith-derived geotherm for southeastern Australia and its geophysical implications. <i>Tectonophysics</i> , 1985 , 111, 41-63	3.1	210
404	Layered Mantle Lithosphere in the Lac de Gras Area, Slave Craton: Composition, Structure and Origin. <i>Journal of Petrology</i> , 1999 , 40, 705-727	3.9	207
403	Are Lithospheres Forever? Tracking Changes in Subcontinental Lithospheric Mantle Through Time. <i>GSA Today</i> , 2001 , 11, 4	2.8	202
402	Nature and Evolution of Cenozoic Lithospheric Mantle beneath Shandong Peninsula, Sino-Korean Craton, Eastern China. <i>International Geology Review</i> , 1998 , 40, 471-499	2.3	201
401	New insights into the Re-Os systematics of sub-continental lithospheric mantle from in situ analysis of sulphides. <i>Earth and Planetary Science Letters</i> , 2002 , 203, 651-663	5.3	200

400	Genesis of Young Lithospheric Mantle in Southeastern China: an LAM/CPMS Trace Element Study. <i>Journal of Petrology</i> , 2000 , 41, 111-148	3.9	200
399	Precambrian crustal evolution of the Yangtze Block tracked by detrital zircons from Neoproterozoic sedimentary rocks. <i>Precambrian Research</i> , 2010 , 177, 131-144	3.9	191
398	The Siberian lithosphere traverse: mantle terranes and the assembly of the Siberian Craton. <i>Tectonophysics</i> , 1999 , 310, 1-35	3.1	185
397	Lithospheric, Cratonic, and Geodynamic Setting of Ni-Cu-PGE Sulfide Deposits. <i>Economic Geology</i> , 2010 , 105, 1057-1070	4.3	184
396	Ultramafic Xenoliths from Bullenmerri and Gnotuk Maars, Victoria, Australia: Petrology of a Sub-Continental Crust-Mantle Transition. <i>Journal of Petrology</i> , 1984 , 25, 53-87	3.9	182
395	Thermal and petrological structure of the lithosphere beneath Hannuoba, Sino-Korean Craton, China: evidence from xenoliths. <i>Lithos</i> , 2001 , 56, 267-301	2.9	181
394	Mineral Chemistry of Peridotites from Paleozoic, Mesozoic and Cenozoic Lithosphere: Constraints on Mantle Evolution beneath Eastern China. <i>Journal of Petrology</i> , 2006 , 47, 2233-2256	3.9	180
393	Trace Element Residence and Partitioning in Mantle Xenoliths Metasomatized by Highly Alkaline, Silicate- and Carbonate-rich Melts (Kerguelen Islands, Indian Ocean). <i>Journal of Petrology</i> , 2000 , 41, 477-509	3.9	180
392	Is the continental Moho the crust-mantle boundary?. <i>Geology</i> , 1987 , 15, 241	5	180
391	In situ Os isotopes in abyssal peridotites bridge the isotopic gap between MORBs and their source mantle. <i>Nature</i> , 2005 , 436, 1005-8	50.4	176
390	Multiple origins of clinopyroxenes in alkali basaltic rocks. <i>Lithos</i> , 1979 , 12, 115-132	2.9	176
389	Lithosphere evolution beneath the Kaapvaal Craton: Re/Os systematics of sulfides in mantle-derived peridotites. <i>Chemical Geology</i> , 2004 , 208, 89-118	4.2	169
388	Apatite Composition: Tracing Petrogenetic Processes in Transhimalayan Granitoids. <i>Journal of Petrology</i> , 2009 , 50, 1829-1855	3.9	168
387	Lithosphere mapping beneath the North American plate?. <i>Lithos</i> , 2004 , 77, 873-922	2.9	168
386	U/Pb isotopic ages and Hf isotopic composition of single zircons: The search for juvenile Precambrian continental crust. <i>Precambrian Research</i> , 2005 , 139, 42-100	3.9	166
385	Quantitative analysis of trace element abundances in glasses and minerals: a comparison of laser ablation inductively coupled plasma mass spectrometry, solution inductively coupled plasma mass spectrometry, proton microprobe and electron microprobe data. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 477-482	3.7	166
384	Tracing Cu and Fe from source to porphyry: in situ determination of Cu and Fe isotope ratios in sulfides from the Grasberg Cu-Au deposit. <i>Chemical Geology</i> , 2004 , 207, 147-169	4.2	165
383	The Taihua group on the southern margin of the North China craton: further insights from U/Pb ages and Hf isotope compositions of zircons. <i>Mineralogy and Petrology</i> , 2009 , 97, 43-59	1.6	164

382	Early crustal evolution in the western Yangtze Block: Evidence from $U^{235}Pb$ and $Lu^{176}Hf$ isotopes on detrital zircons from sedimentary rocks. <i>Precambrian Research</i> , 2012 , 222-223, 368-385	3.9	159
381	Continental-root control on the genesis of magmatic ore deposits. <i>Nature Geoscience</i> , 2013 , 6, 905-910	18.3	155
380	India's hidden inputs to Tibetan orogeny revealed by Hf isotopes of Transhimalayan zircons and host rocks. <i>Earth and Planetary Science Letters</i> , 2011 , 307, 479-486	5.3	155
379	Residence of trace elements in metasomatized spinel lherzolite xenoliths: a proton-microprobe study. <i>Contributions To Mineralogy and Petrology</i> , 1991 , 109, 98-113	3.5	150
378	In situ measurement of Re-Os isotopes in mantle sulfides by laser ablation multicollector-inductively coupled plasma mass spectrometry: analytical methods and preliminary results. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 1037-1050	5.5	148
377	The trapped fluid phase in upper mantle xenoliths from Victoria, Australia: implications for mantle metasomatism. <i>Contributions To Mineralogy and Petrology</i> , 1984 , 88, 72-85	3.5	145
376	Chromitites in ophiolites: How, where, when, why? Part II. The crystallization of chromitites. <i>Lithos</i> , 2014 , 189, 140-158	2.9	140
375	The world turns over: Hadean-Archean crust-mantle evolution. <i>Lithos</i> , 2014 , 189, 2-15	2.9	138
374	Geochronological, geochemical and isotopic study of detrital zircon suites from late Neoproterozoic clastic strata along the NE margin of the East European Craton: Implications for plate tectonic models. <i>Gondwana Research</i> , 2010 , 17, 583-601	5.1	134
373	Laser-ablation microprobe (LAM)-ICPMS unravels the highly siderophile element geochemistry of the oceanic mantle. <i>Earth and Planetary Science Letters</i> , 2001 , 189, 285-294	5.3	129
372	Imaging global chemical and thermal heterogeneity in the subcontinental lithospheric mantle with garnets and xenoliths: Geophysical implications. <i>Tectonophysics</i> , 2006 , 416, 289-309	3.1	127
371	Mantle formation and evolution, Slave Craton: constraints from HSE abundances and Re-Os isotope systematics of sulfide inclusions in mantle xenocrysts. <i>Chemical Geology</i> , 2004 , 208, 61-88	4.2	127
370	Mantle metasomatism beneath western Victoria, Australia: II. Isotopic geochemistry of Cr-diopside lherzolites and Al-augite pyroxenites. <i>Geochimica Et Cosmochimica Acta</i> , 1988 , 52, 449-459	5.5	124
369	Amphiboles from suprasubduction and intraplate lithospheric mantle. <i>Lithos</i> , 2007 , 99, 68-84	2.9	123
368	Mapping olivine composition in the lithospheric mantle. <i>Earth and Planetary Science Letters</i> , 2000 , 182, 223-235	5.3	119
367	Mesoarchean subduction processes: 2.87 Ga eclogites from the Kola Peninsula, Russia. <i>Geology</i> , 2010 , 38, 739-742	5	118
366	Archaean and Proterozoic crustal evolution in the Eastern Succession of the Mt Isa district, Australia: $U^{238}Pb$ and Hf-isotope studies of detrital zircons *View all notes. <i>Australian Journal of Earth Sciences</i> , 2006 , 53, 125-149	1.4	112
365	$U^{235}Pb$ and $Lu^{176}Hf$ isotopes in detrital zircon from Neoproterozoic sedimentary rocks in the northern Yangtze Block: Implications for Precambrian crustal evolution. <i>Gondwana Research</i> , 2013 , 23, 1261-1272	5.1	111

364	Hydrous metasomatism of oceanic sub-arc mantle, Lihir, Papua New Guinea Part 2. Trace element characteristics of slab-derived fluids. <i>Lithos</i> , 2001 , 59, 91-108	2.9	111
363	Cratonic lithospheric mantle: Is anything subducted?. <i>Episodes</i> , 2007 , 30, 43-53	1.6	110
362	Multiple events in the Neo-Tethyan oceanic upper mantle: Evidence from RuOsIr alloys in the Luobusa and Dongqiao ophiolitic podiform chromitites, Tibet. <i>Earth and Planetary Science Letters</i> , 2007 , 261, 33-48	5.3	109
361	A xenolith-derived geotherm and the crust-mantle boundary at Qilin, southeastern China. <i>Lithos</i> , 1996 , 38, 41-62	2.9	109
360	Mantle Recycling: Transition Zone Metamorphism of Tibetan Ophiolitic Peridotites and its Tectonic Implications. <i>Journal of Petrology</i> , 2016 , 57, 655-684	3.9	109
359	Provenance of Lower Cretaceous Wŭng Volcaniclastics in the Tibetan Tethyan Himalaya: Implications for the final breakup of Eastern Gondwana. <i>Sedimentary Geology</i> , 2010 , 223, 193-205	2.8	108
358	ReOs isotopes of sulfides in mantle xenoliths from eastern China: Progressive modification of lithospheric mantle. <i>Lithos</i> , 2008 , 102, 43-64	2.9	106
357	Rejuvenation vs. recycling of Archean crust in the Gawler Craton, South Australia: Evidence from U ^{Pb} and Hf isotopes in detrital zircon. <i>Lithos</i> , 2009 , 113, 570-582	2.9	105
356	U ^{Pb} and Hf-isotope analysis of zircons in mafic xenoliths from Fuxian kimberlites: evolution of the lower crust beneath the North China craton. <i>Contributions To Mineralogy and Petrology</i> , 2004 , 148, 79-103	3.5	105
355	Carbonate-bearing mantle peridotite xenoliths from Spitsbergen: phase relationships, mineral compositions and trace-element residence. <i>Contributions To Mineralogy and Petrology</i> , 1996 , 125, 375-392	3.5	105
354	The continental lithosphere–asthenosphere boundary: Can we sample it?. <i>Lithos</i> , 2010 , 120, 1-13	2.9	103
353	Diachronous decratonization of the Sino-Korean craton: Geochemistry of mantle xenoliths from North Korea. <i>Geology</i> , 2010 , 38, 799-802	5	102
352	Two age populations of zircons from the Timber Creek kimberlites, Northern Territory, as determined by laser-ablation ICP-MS analysis. <i>Australian Journal of Earth Sciences</i> , 2001 , 48, 757	1.4	102
351	Mantle Metasomatism. <i>Lecture Notes in Earth System Sciences</i> , 2013 , 471-533	0.4	100
350	Trace-element signatures of apatites in granitoids from the Mt Isa Inlier, northwestern Queensland. <i>Australian Journal of Earth Sciences</i> , 2001 , 48, 603-619	1.4	99
349	Cr-Pyrope Garnets in the Lithospheric Mantle. I. Compositional Systematics and Relations to Tectonic Setting. <i>Journal of Petrology</i> , 1999 , 40, 679-704	3.9	99
348	Finding of ancient materials in Cathaysia and implication for the formation of Precambrian crust. <i>Science Bulletin</i> , 2007 , 52, 13-22		98
347	Enrichment of upper mantle peridotite: petrological, trace element and isotopic evidence in xenoliths from SE China. <i>Chemical Geology</i> , 2003 , 198, 163-188	4.2	98

346	Relict Proterozoic basement in the Nanling Mountains (SE China) and its tectonothermal overprinting. <i>Tectonics</i> , 2005 , 24, n/a-n/a	4.3	97
345	4-D Lithosphere Mapping: methodology and examples. <i>Tectonophysics</i> , 1996 , 262, 3-18	3.1	97
344	Volatile-rich Metasomatism in Montferrier Xenoliths (Southern France): Implications for the Abundances of Chalcophile and Highly Siderophile Elements in the Subcontinental Mantle. <i>Journal of Petrology</i> , 2011 , 52, 2009-2045	3.9	95
343	Transformation of Archaean Lithospheric Mantle by Refertilization: Evidence from Exposed Peridotites in the Western Gneiss Region, Norway. <i>Journal of Petrology</i> , 2006 , 47, 1611-1636	3.9	95
342	Melt/mantle mixing produces podiform chromite deposits in ophiolites: Implications of Re-Os systematics in the Dongqiao Neo-tethyan ophiolite, northern Tibet. <i>Gondwana Research</i> , 2012 , 21, 194-206	5.1	94
341	CO ₂ - and LREE-rich mantle below eastern Australia: a REE and isotopic study of alkaline magmas and apatite-rich mantle xenoliths from the Southern Highlands Province, Australia. <i>Earth and Planetary Science Letters</i> , 1983 , 65, 287-302	5.3	94
340	Fractionation of oxygen and iron isotopes by partial melting processes: Implications for the interpretation of stable isotope signatures in mafic rocks. <i>Earth and Planetary Science Letters</i> , 2009 , 283, 156-166	5.3	93
339	Primary sulphide melt inclusions in mantle-derived megacrysts and pyroxenites. <i>Lithos</i> , 1987 , 20, 279-294.	4.9	91
338	3-D multiobservable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle. I: a priori petrological information and geophysical observables. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 2586-2617	3.6	90
337	Platinum-group elements and the multistage metasomatic history of Kerguelen lithospheric mantle (South Indian Ocean). <i>Chemical Geology</i> , 2004 , 208, 195-215	4.2	90
336	Formation history and protolith characteristics of granulite facies metamorphic rock in Central Cathaysia deduced from U-Pb and Lu-Hf isotopic studies of single zircon grains. <i>Science Bulletin</i> , 2005 , 50, 2080		90
335	Zircons in mantle xenoliths record the Triassic Yangtze-North China continental collision. <i>Earth and Planetary Science Letters</i> , 2006 , 247, 130-142	5.3	89
334	The lower crust and upper mantle beneath northwestern Spitsbergen: evidence from xenoliths and geophysics. <i>Tectonophysics</i> , 1987 , 139, 169-185	3.1	89
333	Geochemical characteristics of lava-field basalts from eastern Australia and inferred sources: Connections with the subcontinental lithospheric mantle?. <i>Contributions To Mineralogy and Petrology</i> , 1995 , 121, 148-170	3.5	88
332	Origins of Xenolithic Eclogites and Pyroxenites from the Central Slave Craton, Canada. <i>Journal of Petrology</i> , 2007 , 48, 1843-1873	3.9	87
331	Diamond, subcalcic garnet, and mantle metasomatism: Kimberlite sampling patterns define the link. <i>Geology</i> , 2007 , 35, 339	5	87
330	In situ Re-Os analysis of sulfide inclusions in kimberlitic olivine: New constraints on depletion events in the Siberian lithospheric mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2002 , 3, 1-25	3.6	87
329	Ultradeep continental roots and their oceanic remnants: A solution to the geochemical mantle reservoir problem?. <i>Lithos</i> , 2009 , 112, 1043-1054	2.9	85

328	Major and trace element, and Sr-Nd isotope constraints on the origin of Paleogene volcanism in South China prior to the South China Sea opening. <i>Lithos</i> , 1997 , 40, 203-220	2.9	85
327	Southward trench migration at ~130–120 Ma caused accretion of the Neo-Tethyan forearc lithosphere in Tibetan ophiolites. <i>Earth and Planetary Science Letters</i> , 2016 , 438, 57-65	5.3	84
326	Archean sulfide inclusions in Paleozoic zircon megacrysts from the Mir kimberlite, Yakutia: implications for the dating of diamonds. <i>Earth and Planetary Science Letters</i> , 2002 , 199, 111-126	5.3	84
325	Armalcolite-bearing, Ti-rich metasomatic assemblages in harzburgitic xenoliths from the Kerguelen Islands: implications for the oceanic mantle budget of high-field strength elements. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 673-694	5.5	83
324	Accretion and reworking beneath the North China Craton. <i>Lithos</i> , 2012 , 149, 61-78	2.9	82
323	LAM-ICPMS U-Pb dating of kimberlitic perovskite: Eocene–Oligocene kimberlites from the Kundelungu Plateau, D.R. Congo. <i>Earth and Planetary Science Letters</i> , 2008 , 267, 609-619	5.3	81
322	Geochemistry and Origin of Sulphide Minerals in Mantle Xenoliths: Qilin, Southeastern China. <i>Journal of Petrology</i> , 1999 , 40, 1125-1149	3.9	80
321	Screening criteria for reliable U-Pb geochronology and oxygen isotope analysis in uranium-rich zircons: A case study from the Suzhou A-type granites, SE China. <i>Lithos</i> , 2014 , 192-195, 180-191	2.9	79
320	Chromitites in ophiolites: How, where, when, why? Part I. A review and new ideas on the origin and significance of platinum-group minerals. <i>Lithos</i> , 2014 , 189, 127-139	2.9	79
319	Granulite xenoliths from Cenozoic Basalts in SE China provide geochemical fingerprints to distinguish lower crust terranes from the North and South China tectonic blocks. <i>Lithos</i> , 2003 , 67, 77-102	2.9	78
318	Helium and strontium isotopes in ultramafic xenoliths. <i>Chemical Geology</i> , 1986 , 54, 237-249	4.2	78
317	Tibetan chromitites: Excavating the slab graveyard. <i>Geology</i> , 2015 , 43, 179-182	5	77
316	Nature and evolution of Mesozoic–Cenozoic lithospheric mantle beneath the Cathaysia block, SE China. <i>Lithos</i> , 2004 , 74, 41-65	2.9	75
315	Two age populations of zircons from the Timber Creek kimberlites, Northern Territory, as determined by laser-ablation ICP-MS analysis. <i>Australian Journal of Earth Sciences</i> , 2001 , 48, 757-765	1.4	74
314	The nature of the Cenozoic lithosphere at Nushan, eastern China. <i>Geodynamic Series</i> , 1998 , 167-195		73
313	Zircons in the Shenglikou ultrahigh-pressure garnet peridotite massif and its country rocks from the North Qaidam terrane (western China): Meso-Neoproterozoic crust–mantle coupling and early Paleozoic convergent plate-margin processes. <i>Precambrian Research</i> , 2011 , 187, 33-57	3.9	72
312	A refractory mantle protolith in younger continental crust, east-central China: Age and composition of zircon in the Sulu ultrahigh-pressure peridotite. <i>Geology</i> , 2006 , 34, 705	5	70
311	Secular variation in the composition of subcontinental lithospheric mantle: Geophysical and geodynamic implications. <i>Geodynamic Series</i> , 1998 , 1-26		70

310	Fingerprints of metamorphism in chromite: New insights from minor and trace elements. <i>Chemical Geology</i> , 2014 , 389, 137-152	4.2	68
309	A translithospheric suture in the vanished 1-Ga lithospheric root of South India: Evidence from contrasting lithosphere sections in the Dharwar Craton. <i>Lithos</i> , 2009 , 112, 1109-1119	2.9	67
308	Subcontinental lithospheric mantle origin of high niobium/tantalum ratios in eclogites. <i>Nature Geoscience</i> , 2008 , 1, 468-472	18.3	67
307	Corundum from basaltic terrains: a mineral inclusion approach to the enigma. <i>Contributions To Mineralogy and Petrology</i> , 1996 , 122, 368-386	3.5	67
306	Minor elements in olivine from spinel lherzolite xenoliths: implications for thermobarometry. <i>Mineralogical Magazine</i> , 1997 , 61, 257-269	1.7	66
305	Flood basalts and metallogeny: The lithospheric mantle connection. <i>Earth-Science Reviews</i> , 2008 , 86, 145-174	10.2	66
304	Resetting of the U/Pb Zircon System in Cambro-Ordovician Intrusives of the Deep Freeze Range, Northern Victoria Land, Antarctica. <i>Journal of Petrology</i> , 2007 , 48, 327-364	3.9	66
303	Nature of the lithospheric mantle beneath the eastern part of the Central Asian fold belt: mantle xenolith evidence. <i>Tectonophysics</i> , 2000 , 328, 131-156	3.1	66
302	Zircon inclusions in corundum megacrysts: I. Trace element geochemistry and clues to the origin of corundum megacrysts in alkali basalts. <i>Geochimica Et Cosmochimica Acta</i> , 1996 , 60, 2347-2363	5.5	66
301	Origin and geological significance of Paleoproterozoic granites in the northeastern Cathaysia Block, South China. <i>Precambrian Research</i> , 2014 , 248, 72-95	3.9	65
300	Highly evolved Archean basement beneath the western Cathaysia Block, South China. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 242-255	5.5	65
299	Plume-like neon in a metasomatic apatite from the Australian lithospheric mantle. <i>Nature</i> , 1997 , 388, 162-164	50.4	65
298	Heterogeneous and metasomatized mantle recorded by trace elements in minerals of the Donghai garnet peridotites, Sulu UHP terrane, China. <i>Chemical Geology</i> , 2005 , 221, 243-259	4.2	64
297	Peridotite xenoliths in alkali basalts from the Sikhote-Alin, southeastern Siberia, Russia: trace-element signatures of mantle beneath a convergent continental margin. <i>Chemical Geology</i> , 1995 , 120, 275-294	4.2	64
296	Emplacement ages and sources of kimberlites and related rocks in southern Africa: U/Pb ages and Sr/Nd isotopes of groundmass perovskite. <i>Contributions To Mineralogy and Petrology</i> , 2014 , 168, 1	3.5	63
295	Isotopic decoupling during porous melt flow: A case-study in the Lherz peridotite. <i>Earth and Planetary Science Letters</i> , 2009 , 279, 76-85	5.3	63
294	Dynamics of cratons in an evolving mantle. <i>Lithos</i> , 2008 , 102, 12-24	2.9	63
293	Mantle amphibole trace-element and isotopic signatures trace multiple metasomatic episodes in lithospheric mantle, western Victoria, Australia. <i>Lithos</i> , 2004 , 75, 141-171	2.9	63

- 292 Noble gases in anhydrous lherzolites from the newer volcanics, southeastern Australia: a MORB-like reservoir in the subcontinental mantle. *Geochimica Et Cosmochimica Acta*, **1998**, 62, 2521-2533^{5.5} 62
- 291 Mineral inclusions and geochemical characteristics of microdiamonds from the DO27, A154, A21, A418, DO18, DD17 and Ranch Lake kimberlites at Lac de Gras, Slave Craton, Canada?. *Lithos*, **2004**, 77, 39-55 2.9 62
- 290 Nature and timing of metasomatism in the stratified mantle lithosphere beneath the central Slave craton (Canada). *Chemical Geology*, **2013**, 352, 153-169 4.2 61
- 289 Multiple sources for basaltic rocks from Dubbo, eastern Australia: geochemical evidence for plume-lithospheric mantle interaction. *Chemical Geology*, **1997**, 136, 33-54 4.2 61
- 288 Continental collision and accretion recorded in the deep lithosphere of central China. *Earth and Planetary Science Letters*, **2008**, 269, 497-507 5.3 61
- 287 Thermal state and composition of the lithospheric mantle beneath the Daldyn kimberlite field, Yakutia. *Tectonophysics*, **1996**, 262, 19-33 3.1 61
- 286 Noble gases in pyroxenites and metasomatised peridotites from the Newer Volcanics, southeastern Australia: implications for mantle metasomatism. *Chemical Geology*, **2000**, 168, 49-73 4.2 60
- 285 Quantitative trace-element analysis of diamond by laser ablation inductively coupled plasma mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **2005**, 20, 601 3.7 59
- 284 The isotopic composition of magnesium in mantle olivine: Records of depletion and metasomatism. *Chemical Geology*, **2006**, 226, 115-133 4.2 59
- 283 On the Vp/Vs/Mg# correlation in mantle peridotites: Implications for the identification of thermal and compositional anomalies in the upper mantle. *Earth and Planetary Science Letters*, **2010**, 289, 606-618^{5.3} 58
- 282 Feldspar-bearing lherzolite xenoliths in alkali basalts from Hamar-Daban, southern Baikal region, Russia. *Contributions To Mineralogy and Petrology*, **1995**, 122, 174-190 3.5 58
- 281 Decoupling of U/Pb and Lu/Hf isotopes and trace elements in zircon from the UHP North Qaidam orogen, NE Tibet (China): Tracing the deep subduction of continental blocks. *Lithos*, **2012**, 155, 125-145 2.9 57
- 280 H₂O contents and their modification in the Cenozoic subcontinental lithospheric mantle beneath the Cathaysia block, SE China. *Lithos*, **2011**, 126, 182-197 2.9 57
- 279 High Field Strength Element Fractionation in the Upper Mantle: Evidence from Amphibole-Rich Composite Mantle Xenoliths from the Kerguelen Islands (Indian Ocean). *Journal of Petrology*, **2001**, 42, 2145-2167 3.9 57
- 278 Type I eclogites from Roberts Victor kimberlites: Products of extensive mantle metasomatism. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 6927-6954 5.5 56
- 277 Inclusions in diamonds from the K14 and K10 kimberlites, Buffalo Hills, Alberta, Canada: diamond growth in a plume?. *Lithos*, **2004**, 77, 99-111 2.9 56
- 276 Linking continental deep subduction with destruction of a cratonic margin: strongly reworked North China SCLM intruded in the Triassic Sulu UHP belt. *Contributions To Mineralogy and Petrology*, **2014**, 168, 1 3.5 55
- 275 Hf isotopes of MARID (mica-amphibole-rutile-ilmenite-diopside) rutile trace metasomatic processes in the lithospheric mantle. *Geology*, **2005**, 33, 45 5 55

274	Carbonatite melt in oceanic upper mantle beneath the Kerguelen Archipelago. <i>Lithos</i> , 2004 , 75, 239-252	2.9	55
273	Trace-element partitioning between garnet and clinopyroxene in mantle-derived pyroxenites and eclogites: P-T-X controls. <i>Chemical Geology</i> , 1995 , 121, 105-130	4.2	55
272	Age and composition of granulite and pyroxenite xenoliths in Hannuoba basalts reflect Paleogene underplating beneath the North China Craton. <i>Chemical Geology</i> , 2009 , 264, 266-280	4.2	54
271	Ghosts of lithospheres past: Imaging an evolving lithospheric mantle in southern Africa. <i>Geology</i> , 2008 , 36, 515	5	54
270	Ultrapotassic rocks and xenoliths from South Tibet: Contrasting styles of interaction between lithospheric mantle and asthenosphere during continental collision. <i>Geology</i> , 2017 , 45, 51-54	5	53
269	Neoproterozoic (2.7-2.8 Ga) accretion beneath the North China Craton: U-Pb age, trace elements and Hf isotopes of zircons in diamondiferous kimberlites. <i>Lithos</i> , 2009 , 112, 188-202	2.9	53
268	Subduction signature for quenched carbonatites from the deep lithosphere. <i>Geology</i> , 2002 , 30, 743	5	53
267	Genesis and tectonic implications of podiform chromitites in the metamorphosed ultramafic massif of Dobromiritsi (Bulgaria). <i>Gondwana Research</i> , 2015 , 27, 555-574	5.1	52
266	Tectonic affinity of the west Qinling terrane (central China): North China or Yangtze?. <i>Tectonics</i> , 2010 , 29, n/a-n/a	4.3	52
265	A primitive alkali basaltic stratovolcano and associated eruptive centres, Northwestern Spitsbergen: Volcanology and tectonic significance. <i>Journal of Volcanology and Geothermal Research</i> , 1989 , 37, 1-19	2.8	52
264	The Kharamai kimberlite field, Siberia: modification of the lithospheric mantle by the Siberian Trap event. <i>Lithos</i> , 2005 , 81, 167-187	2.9	51
263	Plume-subduction interaction forms large auriferous provinces. <i>Nature Communications</i> , 2017 , 8, 843	17.4	50
262	Melt inclusions from the deep Slave lithosphere: implications for the origin and evolution of mantle-derived carbonatite and kimberlite. <i>Lithos</i> , 2004 , 76, 461-474	2.9	50
261	Genesis and evolution of the lithospheric mantle beneath the Buffalo Head Terrane, Alberta (Canada)?. <i>Lithos</i> , 2004 , 77, 413-451	2.9	50
260	The enigma of crustal zircons in upper-mantle rocks: Clues from the Tumut ophiolite, southeast Australia. <i>Geology</i> , 2015 , 43, 119-122	5	49
259	Buoyant ancient continental mantle embedded in oceanic lithosphere (Sal Island, Cape Verde Archipelago). <i>Lithos</i> , 2010 , 120, 223-233	2.9	49
258	Thermal and compositional structure of the subcontinental lithospheric mantle: Derivation from shear wave seismic tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	49
257	The Evolution of the Upper Mantle beneath the Canary Islands: Information from Trace Elements and Sr isotope Ratios in Minerals in Mantle Xenoliths. <i>Journal of Petrology</i> , 2004 , 45, 2573-2612	3.9	49

256	Crustal evolution in the central Congo-Kasai Craton, Luebo, D.R. Congo: Insights from zircon U-Pb ages, Hf-isotope and trace-element data. <i>Precambrian Research</i> , 2009 , 170, 107-115	3.9	48
255	Single zircon LAM-ICPMS U-Pb dating of Guidong complex (SE China) and its petrogenetic significance. <i>Science Bulletin</i> , 2003 , 48, 1892-1899		48
254	Xenolith geotherms and crustal models in Eastern Australia. <i>Tectonophysics</i> , 1991 , 192, 359-366	3.1	48
253	Moho vs crust-mantle boundary: Evolution of an idea. <i>Tectonophysics</i> , 2013 , 609, 535-546	3.1	47
252	Taking the pulse of the Earth: linking crustal and mantle events. <i>Australian Journal of Earth Sciences</i> , 2008 , 55, 983-995	1.4	47
251	Thallium isotopes in Iceland and Azores lavas: Implications for the role of altered crust and mantle geochemistry. <i>Earth and Planetary Science Letters</i> , 2007 , 264, 332-345	5.3	47
250	Sulfides in mantle peridotites from Penghu Islands, Taiwan: Melt percolation, PGE fractionation, and the lithospheric evolution of the South China block. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 4531-4557	5.5	45
249	U-Pb dating of zircons from quartz diorite and its enclaves at Tongguanshan in Anhui and its petrogenetic implication. <i>Science Bulletin</i> , 2004 , 49, 2073		45
248	Early Paleozoic tectonic reconstruction of Iran: Tales from detrital zircon geochronology. <i>Lithos</i> , 2017 , 268-271, 87-101	2.9	44
247	Crustal Evolution of NW Iran: Cadomian Arcs, Archean Fragments and the Cenozoic Magmatic Flare-Up. <i>Journal of Petrology</i> , 2017 , 58, 2143-2190	3.9	44
246	In-situ geochemistry of sulfides in highly metasomatized mantle xenoliths from Kerguelen, southern Indian Ocean. <i>Lithos</i> , 2012 , 154, 296-314	2.9	44
245	Multi-stage origin of Roberts Victor eclogites: Progressive metasomatism and its isotopic effects. <i>Lithos</i> , 2012 , 142-143, 161-181	2.9	43
244	FTIR mapping: Distribution of impurities in different types of diamond growth. <i>Diamond and Related Materials</i> , 2012 , 29, 29-36	3.5	43
243	In situ Re-Os isotopic analysis of platinum-group minerals from the Mayar-Cristal ophiolitic massif (Mayar-Baracoa Ophiolitic Belt, eastern Cuba): implications for the origin of Os-isotope heterogeneities in podiform chromitites. <i>Contributions To Mineralogy and Petrology</i> , 2011 , 161, 977-990	3.5	43
242	Metasomatism and sulfide mobility in lithospheric mantle beneath eastern Australia: Implications for mantle Re-Os chronology. <i>Lithos</i> , 2007 , 94, 132-147	2.9	43
241	Cr-pyrope garnets in the lithospheric mantle 2. Compositional populations and their distribution in time and space. <i>Geochemistry, Geophysics, Geosystems</i> , 2002 , 3, 1-35	3.6	43
240	First terrestrial occurrence of tistarite (Ti ₂ O ₃): Ultra-low oxygen fugacity in the upper mantle beneath Mount Carmel, Israel. <i>Geology</i> , 2016 , 44, 815-818	5	42
239	Grenvillian orogeny in the Southern Cathaysia Block: Constraints from U-Pb ages and Lu-Hf isotopes in zircon from metamorphic basement. <i>Science Bulletin</i> , 2008 , 53, 3037-3050	10.6	42

238	Alkaline magmatism from Kutch, NW India: implications for plume-lithosphere interaction. <i>Lithos</i> , 2005 , 81, 101-119	2.9	42
237	Thermal state of the lithosphere beneath Central Mongolia: evidence from deep-seated xenoliths from the Shavaryn-Saram volcanic centre in the Tariat depression, Hangai, Mongolia. <i>Lithos</i> , 1995 , 36, 243-255	2.9	42
236	Diamonds in ophiolites: Contamination or a new diamond growth environment?. <i>Earth and Planetary Science Letters</i> , 2015 , 430, 284-295	5.3	41
235	Trace-element patterns of fibrous and monocrystalline diamonds: Insights into mantle fluids. <i>Lithos</i> , 2010 , 118, 313-337	2.9	41
234	Late Mesozoic-Eocene Mantle Replacement beneath the Eastern North China Craton: Evidence from the Paleozoic and Cenozoic Peridotite Xenoliths. <i>International Geology Review</i> , 2005 , 47, 457-472	2.3	41
233	Archean mantle fragments in Proterozoic crust, Western Gneiss Region, Norway. <i>Geology</i> , 2004 , 32, 609-5		41
232	Petrogenesis and geochronology of Cretaceous adakitic, I- and A-type granitoids in the NE Yangtze block: Constraints on the eastern subsurface boundary between the North and South China blocks. <i>Lithos</i> , 2013 , 175-176, 333-350	2.9	40
231	Lithosphere formation in the central Slave Craton (Canada): plume subcretion or lithosphere accretion?. <i>Contributions To Mineralogy and Petrology</i> , 2007 , 154, 409-427	3.5	40
230	Cu isotopes reveal initial Cu enrichment in sources of giant porphyry deposits in a collisional setting. <i>Geology</i> , 2019 , 47, 135-138	5	39
229	Origin of volcanic ash beds across the Permian-Triassic boundary, Daxiakou, South China: Petrology and U-Pb age, trace elements and Hf-isotope composition of zircon. <i>Chemical Geology</i> , 2013 , 360-361, 41-53	4.2	39
228	The crust-mantle boundary beneath cratons and craton margins: a transect across the south-west margin of the Kaapvaal craton. <i>Lithos</i> , 1995 , 36, 257-287	2.9	38
227	Dating lower crust and upper mantle events: an ion microprobe study of xenoliths from kimberlitic pipes, South Australia. <i>Lithos</i> , 1994 , 32, 77-94	2.9	38
226	Scandium speciation in a world-class lateritic deposit. <i>Geochemical Perspectives Letters</i> , 2017 , 105-114	3	38
225	A geotherm and lithospheric section for central Mongolia (Tariat region). <i>Geodynamic Series</i> , 1998 , 127-153		37
224	Super-reducing conditions in ancient and modern volcanic systems: sources and behaviour of carbon-rich fluids in the lithospheric mantle. <i>Mineralogy and Petrology</i> , 2018 , 112, 101-114	1.6	36
223	Proterozoic mantle lithosphere beneath the extended margin of the South China block: In situ Re-Os evidence. <i>Geology</i> , 2003 , 31, 709	5	36
222	Os-isotope variability within sulfides from podiform chromitites. <i>Chemical Geology</i> , 2012 , 291, 224-235	4.2	35
221	Cretaceous thermo-chemical modification of the Kaapvaal cratonic lithosphere, South Africa. <i>Lithos</i> , 2009 , 112, 886-895	2.9	35

220	Crustal evolution in the Georgetown Inlier, North Queensland, Australia: a detrital zircon grain study. <i>Chemical Geology</i> , 2007 , 245, 198-218	4.2	35
219	Messengers from the deep: Fossil wadsleyite-chromite microstructures from the Mantle Transition Zone. <i>Scientific Reports</i> , 2015 , 5, 16484	4.9	34
218	Feldspar from carbonate-rich silicate metasomatism in the shallow oceanic mantle under Kerguelen Islands (South Indian Ocean). <i>Lithos</i> , 2004 , 75, 209-237	2.9	34
217	Ultramafic Xenoliths from Kutch, Northwest India: Plume-Related Mantle Samples?. <i>International Geology Review</i> , 2000 , 42, 416-444	2.3	34
216	Persistence of mantle lithospheric Re-Os signature during asthenospherization of the subcontinental lithospheric mantle: insights from in situ isotopic analysis of sulfides from the Ronda peridotite (Southern Spain). <i>Contributions To Mineralogy and Petrology</i> , 2010 , 159, 315-330	3.5	33
215	Roles of Melting and Metasomatism in the Formation of the Lithospheric Mantle beneath the Leizhou Peninsula, South China. <i>Journal of Petrology</i> , 2006 , 47, 355-383	3.9	33
214	Granulite xenoliths and their zircons, Tuoyun, NW China: Insights into southwestern Tianshan lower crust. <i>Precambrian Research</i> , 2006 , 145, 159-181	3.9	33
213	The thermal state and composition of the lithospheric mantle beneath the Leizhou Peninsula, South China. <i>Journal of Volcanology and Geothermal Research</i> , 2003 , 122, 165-189	2.8	33
212	Sr isotopic heterogeneity in primitive basaltic rocks, southeastern Australia: correlation with mantle metasomatism. <i>Contributions To Mineralogy and Petrology</i> , 1984 , 87, 220-230	3.5	33
211	Primitive Arc Magmatism and Delamination: Petrology and Geochemistry of Pyroxenites from the Cabo Ortegal Complex, Spain. <i>Journal of Petrology</i> , 2016 , 57, 1921-1954	3.9	33
210	Pyroxenite Dykes in Orogenic Peridotite from North Qaidam (NE Tibet, China) Track Metasomatism and Segregation in the Mantle Wedge. <i>Journal of Petrology</i> , 2014 , 55, 2347-2376	3.9	32
209	The Kimberlites and related rocks of the Kuruman Kimberlite Province, Kaapvaal Craton, South Africa. <i>Contributions To Mineralogy and Petrology</i> , 2011 , 161, 351-371	3.5	32
208	Super-reduced mineral assemblages in "ophiolitic" chromitites and peridotites: the view from Mount Carmel. <i>European Journal of Mineralogy</i> , 2017 , 29, 557-570	2.2	31
207	Metamorphism disturbs the Re-Os signatures of platinum-group minerals in ophiolite chromitites. <i>Geology</i> , 2012 , 40, 659-662	5	31
206	The architecture of the European-Mediterranean lithosphere: A synthesis of the Re-Os evidence. <i>Geology</i> , 2013 , 41, 547-550	5	31
205	Zircon U-Pb and Hf isotopes of volcanic rocks from the Batamayineishan Formation in the eastern Junggar Basin. <i>Science Bulletin</i> , 2010 , 55, 4150-4161		31
204	Origin and evolution of topaz-bearing granites from the Nanling Range, South China: a geochemical and Sr-Nd-Hf isotopic study. <i>Mineralogy and Petrology</i> , 2007 , 90, 271-300	1.6	31
203	Petrogenesis of the Yangkou layered garnet-peridotite complex, Sulu UHP terrane, China. <i>American Mineralogist</i> , 2005 , 90, 801-813	2.9	31

202	A spectroscopic and carbon-isotope study of mixed-habit diamonds: Impurity characteristics and growth environment. <i>American Mineralogist</i> , 2013 , 98, 66-77	2.9	30
201	Evolution of the Långschan garnet peridotites in the North Qaidam UHP belt, Northern Tibetan Plateau: Constraints from Re-Os isotopes. <i>Lithos</i> , 2010 , 117, 307-321	2.9	30
200	Morphology and geochemistry of zircons from late Mesozoic igneous complexes in coastal SE China: implications for petrogenesis. <i>Mineralogical Magazine</i> , 2002 , 66, 235-251	1.7	30
199	High- and low-Cr chromitite and dunite in a Tibetan ophiolite: evolution from mature subduction system to incipient forearc in the Neo-Tethyan Ocean. <i>Contributions To Mineralogy and Petrology</i> , 2017 , 172, 1	3.5	29
198	Coupling, decoupling and metasomatism: Evolution of crust-mantle relationships beneath NW Spitsbergen. <i>Lithos</i> , 2012 , 149, 115-135	2.9	29
197	Mantle melts, metasomatism and diamond formation: Insights from melt inclusions in xenoliths from Diavik, Slave Craton. <i>Lithos</i> , 2009 , 112, 675-682	2.9	29
196	Cretaceous volcanic-intrusive magmatism in western Guangdong and its geological significance. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 696-713		29
195	Distribution of high field strength and rare earth elements in mantle and lower crustal xenoliths from the Southwestern United States: The role of grain-boundary phases. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 3919-3942	5.5	29
194	Diamonds from Wellington, NSW: insights into the origin of eastern Australian diamonds. <i>Mineralogical Magazine</i> , 1999 , 63, 447-471	1.7	29
193	Platelet development in cuboid diamonds: insights from micro-FTIR mapping. <i>Contributions To Mineralogy and Petrology</i> , 2012 , 164, 1011-1025	3.5	28
192	U-Pb and Hf-isotope analyses of zircon from the Kundelungu Kimberlites, D.R. Congo: Implications for crustal evolution. <i>Precambrian Research</i> , 2007 , 156, 195-225	3.9	28
191	Measured and calculated elastic wave velocities for xenoliths from the lower crust and upper mantle. <i>Tectonophysics</i> , 1990 , 173, 207-210	3.1	28
190	Constraints from eclogite and MARID xenoliths on origins of mantle Zr/Hf-Nb-Ta variability. <i>Contributions To Mineralogy and Petrology</i> , 2011 , 162, 1047-1062	3.5	27
189	Archean lithospheric mantle beneath Arkansas: Continental growth by microcontinent accretion. <i>Bulletin of the Geological Society of America</i> , 2011 , 123, 1763-1775	3.9	27
188	In situ U-Pb Dating and Sr-Nd Isotopic Analysis of Perovskite: Constraints on the Age and Petrogenesis of the Kuruman Kimberlite Province, Kaapvaal Craton, South Africa. <i>Journal of Petrology</i> , 2012 , 53, 2497-2522	3.9	27
187	Crustal zircons and mantle sulfides: Archean to Triassic events in the lithosphere beneath south-eastern Sicily. <i>Lithos</i> , 2007 , 96, 503-523	2.9	27
186	The granulite to eclogite transition beneath the eastern margin of the Australian craton. <i>European Journal of Mineralogy</i> , 1991 , 3, 293-322	2.2	27
185	Recycling of ancient subduction-modified mantle domains in the Purang ophiolite (southwestern Tibet). <i>Lithos</i> , 2016 , 262, 11-26	2.9	27

184	Gold in the mantle: A global assessment of abundance and redistribution processes. <i>Lithos</i> , 2018 , 322, 376-391	2.9	27
183	Roll-Back, Extension and Mantle Upwelling Triggered Eocene Potassic Magmatism in NW Iran. <i>Journal of Petrology</i> , 2018 , 59, 1417-1465	3.9	27
182	Trace-element geochemistry and U/Pb dating of perovskite in kimberlites of the Lunda Norte province (NE Angola): Petrogenetic and tectonic implications. <i>Chemical Geology</i> , 2016 , 426, 118-134	4.2	26
181	The role of eclogite in the rift-related metasomatism and Cenozoic magmatism of Northern Victoria Land, Antarctica. <i>Lithos</i> , 2011 , 124, 319-330	2.9	26
180	Lithospheric mantle structure and the diamond potential of kimberlites in southern D.R. Congo. <i>Lithos</i> , 2009 , 112, 166-176	2.9	26
179	Pressure- and stress-induced fabric transition in olivine from peridotites in the Western Gneiss Region (Norway): implications for mantle seismic anisotropy. <i>Journal of Metamorphic Geology</i> , 2013 , 31, 93-111	4.4	25
178	Spatial and temporal evolution of Liassic to Paleocene arc activity in southern Peru unraveled by zircon U/Pb and Hf in-situ data on plutonic rocks. <i>Lithos</i> , 2012 , 155, 183-200	2.9	25
177	Microinclusions in monocrystalline octahedral diamonds and coated diamonds from Diavik, Slave Craton: Clues to diamond genesis. <i>Lithos</i> , 2009 , 112, 724-735	2.9	25
176	The first results of U/Pb dating and isotope geochemical studies of detrital zircons from the neoproterozoic sandstones of the Southern Timan (Djejjim-Parma Hill). <i>Doklady Earth Sciences</i> , 2010 , 435, 1676-1683	0.6	25
175	Trace-element geochemistry of diamondite: Crystallisation of diamond from kimberlite/charbonatite melts. <i>Lithos</i> , 2008 , 106, 39-54	2.9	25
174	Episodic refertilization and metasomatism of Archean mantle: evidence from an orogenic peridotite in North Qaidam (NE Tibet, China). <i>Contributions To Mineralogy and Petrology</i> , 2015 , 169, 1	3.5	24
173	Transfer of Os isotopic signatures from peridotite to chromitite in the subcontinental mantle: Insights from in situ analysis of platinum-group and base-metal minerals (Ojib peridotite massif, southern Spain). <i>Lithos</i> , 2013 , 164-167, 74-85	2.9	24
172	The Belomorian eclogite province: Unique evidence of Meso-Neoarchean subduction and collision. <i>Doklady Earth Sciences</i> , 2010 , 434, 1311-1316	0.6	24
171	The lithospheric mantle beneath the southwestern Tianshan area, northwest China. <i>Contributions To Mineralogy and Petrology</i> , 2006 , 151, 457-479	3.5	24
170	Equilibration temperatures and elastic wave velocities for upper mantle rocks from eastern Australia: implications for the interpretation of seismological models. <i>Tectonophysics</i> , 1990 , 185, 67-82	3.1	24
169	Recycled volatiles determine fertility of porphyry deposits in collisional settings. <i>American Mineralogist</i> , 2021 , 106, 656-661	2.9	24
168	Fluid-present deformation aids chemical modification of chromite: Insights from chromites from Golyamo Kamenyane, SE Bulgaria. <i>Lithos</i> , 2015 , 228-229, 78-89	2.9	23
167	Compositional effects on the solubility of minor and trace elements in oxide spinel minerals: insights from crystal-crystal partition coefficients in chromite exsolution. <i>American Mineralogist</i> , 2016 , 101, 1360-1372	2.9	23

166	Laurentian Provenance of Archean Mantle Fragments in the Proterozoic Baltic Crust of the Norwegian Caledonides. <i>Journal of Petrology</i> , 2012 , 53, 1357-1383	3.9	23
165	Paleoproterozoic basement beneath the southern Jiangxi Province: Evidence from U-Pb ages and Lu-Hf isotopes in zircons from the Doushui lamprophyre. <i>Science Bulletin</i> , 2009 , 54, 1555-1563	10.6	23
164	Two-layered oceanic lithospheric mantle in a Tibetan ophiolite produced by episodic subduction of Tethyan slabs. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 1189-1213	3.6	22
163	The recycling of chromitites in ophiolites from southwestern North America. <i>Lithos</i> , 2017 , 294-295, 53-72	2.9	22
162	Significance of ancient sulfide PGE and ReOs signatures in the mantle beneath Calatrava, Central Spain. <i>Contributions To Mineralogy and Petrology</i> , 2014 , 168, 1	3.5	22
161	Unusual mineral inclusions and carbon isotopes of alluvial diamonds from Bingara, eastern Australia. <i>Lithos</i> , 2003 , 69, 51-66	2.9	22
160	Zircon recycling and crystallization during formation of chromite- and Ni-arsenide ores in the subcontinental lithospheric mantle (Serrañ de Ronda, Spain). <i>Ore Geology Reviews</i> , 2017 , 90, 193-209	3.2	21
159	Subduction, high-P metamorphism, and collision fingerprints in South Iran: Constraints from zircon U-Pb and mica Rb-Sr geochronology. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 306-332	3.6	21
158	Cr-rich rutile: A powerful tool for diamond exploration. <i>Lithos</i> , 2016 , 265, 304-311	2.9	21
157	Location of Pacific and Indian mid-ocean ridge-type mantle in two time slices: Evidence from Pb, Sr, and Nd isotopes for Cenozoic Australian basalts. <i>Geology</i> , 1999 , 27, 39	5	21
156	A terrestrial magmatic hibonite-grossite-vanadium assemblage: Desilication and extreme reduction in a volcanic plumbing system, Mount Carmel, Israel. <i>American Mineralogist</i> , 2019 , 104, 207-219	2.9	20
155	Trace-element fingerprints of chromite, magnetite and sulfides from the 3.1 Ga ultramafic mafic rocks of the Nuggihalli greenstone belt, Western Dharwar craton (India). <i>Contributions To Mineralogy and Petrology</i> , 2015 , 169, 1	3.5	20
154	Recurrent magmatic activity on a lithosphere-scale structure: Crystallization and deformation in kimberlitic zircons. <i>Gondwana Research</i> , 2017 , 42, 126-132	5.1	20
153	Moho and petrologic crust-mantle boundary coincide under southeastern Australia: Comment and Reply. <i>Geology</i> , 1994 , 22, 666	5	20
152	The lower crust in eastern Australia: xenolith evidence. <i>Geological Society Special Publication</i> , 1986 , 24, 363-374	1.7	20
151	Thermal metamorphism of mantle chromites and the stability of noble-metal nanoparticles. <i>Contributions To Mineralogy and Petrology</i> , 2015 , 170, 1	3.5	19
150	Component variation in the late Neoproterozoic to Cambrian sedimentary rocks of SW China [NE Vietnam, and its tectonic significance. <i>Precambrian Research</i> , 2018 , 308, 92-110	3.9	19
149	Cold plumes trigger contamination of oceanic mantle wedges with continental crust-derived sediments: Evidence from chromitite zircon grains of eastern Cuban ophiolites. <i>Geoscience Frontiers</i> , 2018 , 9, 1921-1936	6	19

- 148 Trace element partitioning in mixed-habit diamonds. *Chemical Geology*, **2013**, 355, 134-143 4.2 19
- 147 Sulfides and chalcophile elements in Roberts Victor eclogites: Unravelling a sulfide-rich metasomatic event. *Chemical Geology*, **2013**, 354, 73-92 4.2 19
- 146 Sources and timing of pyroxenite formation in the sub-arc mantle: Case study of the Cabo Ortegal Complex, Spain. *Earth and Planetary Science Letters*, **2017**, 474, 490-502 5.3 19
- 145 Ages, trace elements and Hf-isotopic compositions of zircons from claystones around the Permian-Triassic boundary in the Zunyi Section, South China: Implications for nature and tectonic setting of the volcanism. *Journal of Earth Science (Wuhan, China)*, **2015**, 26, 872-882 2.2 19
- 144 Magma sources and gold mineralisation in the Mount Leyshon and Tuckers Igneous Complexes, Queensland, Australia: U-Pb and Hf isotope evidence. *Lithos*, **2008**, 101, 281-307 2.9 19
- 143 Oxides of low pressure origin from alkali basaltic rocks, southern highlands, N.S.W., and their bearing on the petrogenesis of alkali basaltic magmas. *Journal of the Geological Society of Australia*, **1973**, 20, 427-447 19
- 142 Mantle-derived sapphirine. *Mineralogical Magazine*, **1986**, 50, 635-640 1.7 19
- 141 Repeated magmatic buildup and deep hot zones in continental evolution: The Cadomian crust of Iran. *Earth and Planetary Science Letters*, **2020**, 531, 115989 5.3 19
- 140 Tectonothermal evolution of the continental crust beneath the Yakutian diamondiferous province (Siberian craton): U-Pb and Hf isotopic evidence on zircons from crustal xenoliths of kimberlite pipes. *Precambrian Research*, **2016**, 282, 1-20 3.9 19
- 139 Neoproterozoic sedimentary rocks track the location of the Lhasa Block during the Rodinia breakup. *Precambrian Research*, **2019**, 320, 63-77 3.9 19
- 138 Late Cretaceous subduction-related magmatism on the southern edge of Sabzevar basin, NE Iran. *Journal of the Geological Society*, **2019**, 176, 530-552 2.7 18
- 137 Mud Tank Zircon: Long-Term Evaluation of a Reference Material for U-Pb Dating, Hf-Isotope Analysis and Trace Element Analysis. *Geostandards and Geoanalytical Research*, **2019**, 43, 339-354 3.6 18
- 136 Multi-stage modification of Paleoproterozoic crust beneath the Anabar tectonic province (Siberian craton). *Precambrian Research*, **2018**, 305, 125-144 3.9 18
- 135 Basement components of the Xiangshan-Yuhuashan area, South China: Defining the boundary between the Yangtze and Cathaysia blocks. *Precambrian Research*, **2018**, 309, 102-122 3.9 18
- 134 Unmasking xenolithic eclogites: Progressive metasomatism of a key Roberts Victor sample. *Chemical Geology*, **2014**, 364, 56-65 4.2 18
- 133 Thermobarometry and P-T paths: the granulite to eclogite transition in lower crustal xenoliths from eastern Australia. *Journal of Metamorphic Geology*, **1991**, 9, 349-359 4.4 18
- 132 Sulfide metasomatism and the mobility of gold in the lithospheric mantle. *Chemical Geology*, **2015**, 410, 149-161 4.2 17
- 131 Subduction-related middle Permian to early Triassic magmatism in central Hainan Island, South China. *Lithos*, **2018**, 318-319, 158-175 2.9 17

130	Evolution of Phanerozoic Eastern Australian Lithosphere: Isotopic Evidence for Magmatic and Tectonic Underplating. <i>Journal of Petrology</i> , 1988 , Special_Volume, 89-108	3.9	17
129	Cenozoic lithospheric architecture and metallogensis in Southeastern Tibet. <i>Earth-Science Reviews</i> , 2021 , 214, 103472	10.2	17
128	Carmeltazite, ZrAl ₂ Ti ₄ O ₁₁ , a New Mineral Trapped in Corundum from Volcanic Rocks of Mt Carmel, Northern Israel. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 601	2.4	17
127	Microscale effects of melt infiltration into the lithospheric mantle: Peridotite xenoliths from Xilong, South China. <i>Lithos</i> , 2015 , 232, 111-123	2.9	16
126	Late Paleozoic magmatism in South China: Oceanic subduction or intracontinental orogeny?. <i>Science Bulletin</i> , 2013 , 58, 788-795		16
125	Microcontinents among the accretionary complexes of the Central Asia Orogenic Belt: In situ ReOs evidence. <i>Journal of Asian Earth Sciences</i> , 2013 , 62, 37-50	2.8	16
124	Multiple Metasomatism beneath the North Pannonian Volcanic Field (Northern Pannonian Basin) Revealed by Upper Mantle Peridotite Xenoliths. <i>Journal of Petrology</i> , 2017 , 58, 1107-1144	3.9	16
123	Deformation of mantle pyroxenites provides clues to geodynamic processes in subduction zones: Case study of the Cabo Ortegal Complex, Spain. <i>Earth and Planetary Science Letters</i> , 2017 , 472, 174-185	5.3	15
122	Langshan basalts record recycled Paleo-Asian oceanic materials beneath the northwest North China Craton. <i>Chemical Geology</i> , 2019 , 524, 88-103	4.2	15
121	Australian laterites reveal mechanisms governing scandium dynamics in the critical zone. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 260, 292-310	5.5	15
120	Thallium isotopes as a potential tracer for the origin of cratonic eclogites. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 7387-7398	5.5	15
119	Combined U-Pb dating and Sm-Nd studies on lower crustal and mantle xenoliths from the Delegate basaltic pipes, southeastern Australia. <i>Contributions To Mineralogy and Petrology</i> , 1998 , 130, 154-161	3.5	15
118	Chapter 8.2 The Earliest Subcontinental Lithospheric Mantle. <i>Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana</i> , 2007 , 15, 1013-1035		15
117	Multiple Origins of Alluvial Diamonds from New South Wales, Australia. <i>Economic Geology</i> , 2002 , 97, 109-123	4.3	15
116	Use and misuse of Mg- and Mn-rich ilmenite in diamond exploration: A petrographic and trace element approach. <i>Lithos</i> , 2017 , 292-293, 348-363	2.9	14
115	Inclusions of crichtonite-group minerals in Cr-pyropes from the Internatsionalnaya kimberlite pipe, Siberian Craton: Crystal chemistry, parageneses and relationships to mantle metasomatism. <i>Lithos</i> , 2018 , 308-309, 181-195	2.9	14
114	Magnesium and oxygen isotopes in Roberts Victor eclogites. <i>Chemical Geology</i> , 2016 , 438, 73-83	4.2	14
113	Tracing ancient events in the lithospheric mantle: A case study from ophiolitic chromitites of SW Turkey. <i>Journal of Asian Earth Sciences</i> , 2016 , 119, 1-19	2.8	14

112	Characterisation of primary and secondary carbonates in hypabyssal kimberlites: an integrated compositional and Sr-isotopic approach. <i>Mineralogy and Petrology</i> , 2018 , 112, 555-567	1.6	14
111	Unexposed Archean components and complex post-Archean accretion/reworking processes beneath the southern Yangtze Block revealed by zircon xenocrysts from the Paleozoic lamproites, South China. <i>Precambrian Research</i> , 2018 , 316, 174-196	3.9	14
110	Laurite and zircon from the Finero chromitites (Italy): New insights into evolution of the subcontinental mantle. <i>Ore Geology Reviews</i> , 2017 , 90, 210-225	3.2	14
109	Rates of Magma Ascent: Constraints from Mantle-Derived Xenoliths 2010 , 116-124		14
108	Characterization of the metasomatic agent in mantle xenoliths from Devè, Massif Central (France) using coupled in situ trace-element and O, Sr and Nd isotopic compositions. <i>Geological Society Special Publication</i> , 2008 , 293, 177-196	1.7	14
107	Nuclear microprobe analysis of melt inclusions in minerals: Windows on metasomatic processes in the earth's mantle. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 181, 578-585	1.2	14
106	Sulfide in dunite channels reflects long-distance reactive migration of mid-ocean-ridge melts from mantle source to crust: A Re-Os isotopic perspective. <i>Earth and Planetary Science Letters</i> , 2020 , 531, 115969	5.3	14
105	Extremely low structural hydroxyl contents in upper mantle xenoliths from the Ngr̃-Gh̃ Volcanic Field (northern Pannonian Basin): Geodynamic implications and the role of post-eruptive re-equilibration. <i>Chemical Geology</i> , 2019 , 507, 23-41	4.2	14
104	Extreme reduction: Mantle-derived oxide xenoliths from a hydrogen-rich environment. <i>Lithos</i> , 2020 , 358-359, 105404	2.9	13
103	Permian to quaternary magmatism beneath the Mt Carmel area, Israel: Zircons from volcanic rocks and associated alluvial deposits. <i>Lithos</i> , 2018 , 314-315, 307-322	2.9	13
102	Sources of the Nanwenhe - Song Chay granitic complex (SW China - NE Vietnam) and its tectonic significance. <i>Lithos</i> , 2017 , 290-291, 76-93	2.9	13
101	The Salma Eclogites of the Belomorian Province, Russia 2011 , 623-670		13
100	Plagioclase-spinel intergrowths in alkali basaltic rocks from the Southern Highlands, N.S.W.. <i>Contributions To Mineralogy and Petrology</i> , 1973 , 38, 167-175	3.5	13
99	Gold in the mantle: The role of pyroxenites. <i>Lithos</i> , 2016 , 244, 205-217	2.9	12
98	Complex evolution of the lower crust beneath the southeastern North China Craton: the Junan xenoliths and xenocrysts. <i>Lithos</i> , 2014 , 206-207, 113-126	2.9	12
97	Two stages of zircon crystallization in the Jingshan monzogranite, Bengbu Uplift: Implications for the syn-collisional granites of the Dabie-Sulu UHP orogenic belt and the climax of movement on the Tan-Lu fault. <i>Lithos</i> , 2011 , 122, 201-213	2.9	12
96	Lithospheric domains and controls on kimberlite emplacement, Slave Province, Canada: Evidence from elastic thickness and upper mantle composition. <i>Geochemistry, Geophysics, Geosystems</i> , 2005 , 6, n/a-n/a	3.6	12
95	Ba partitioning and the origin of anorthoclase megacrysts in basaltic rocks. <i>Mineralogical Magazine</i> , 1992 , 56, 101-107	1.7	12

94	Geochemistry and Origin of Sulphide Minerals in Mantle Xenoliths: Qilin, Southeastern China		12
93	Nitrogen nanoinclusions in milky diamonds from Juina area, Mato Grosso State, Brazil. <i>Lithos</i> , 2016 , 265, 57-67	2.9	12
92	Re-Os isotopic constraints on the evolution of the Bangong-Nujiang Tethyan oceanic mantle, Central Tibet. <i>Lithos</i> , 2015 , 224-225, 32-45	2.9	11
91	Sources of cratonic metasomatic fluids: In situ LA-MC-ICPMS analysis of Sr, Nd, Hf and Pb isotopes in Lima from the Jagersfontein Kimberlite. <i>Numerische Mathematik</i> , 2014 , 314, 435-461	5.3	11
90	Extreme lithium isotopic fractionation in three zircon standards (Plešovice, Qinghu and Temora). <i>Scientific Reports</i> , 2015 , 5, 16878	4.9	11
89	Water contents of Roberts Victor xenolithic eclogites: primary and metasomatic controls. <i>Contributions To Mineralogy and Petrology</i> , 2014 , 168, 1	3.5	11
88	Archean mantle contributes to the genesis of chromitite in the Palaeozoic Sartohay ophiolite, Asiatic Orogenic Belt, northwestern China. <i>Precambrian Research</i> , 2012 , 216-219, 87-94	3.9	11
87	Intrusion and contamination of high-temperature dunitic magma: the Nordre Bumandsfjord pluton, Seiland, Arctic Norway. <i>Contributions To Mineralogy and Petrology</i> , 2013 , 165, 903-930	3.5	11
86	Co-rich sulfides in mantle peridotites from Penghu Islands, Taiwan: Footprints of Proterozoic mantle plumes under the Cathaysia Block. <i>Journal of Asian Earth Sciences</i> , 2010 , 37, 229-245	2.8	11
85	Petrology and SrNdHf isotope geochemistry of gabbro xenoliths from the Hyblean Plateau: a MARID reservoir beneath SE Sicily?. <i>Contributions To Mineralogy and Petrology</i> , 2009 , 157, 1-22	3.5	11
84	First results of isotopic dating of detrital zircons from the clastic rocks of the Pre-Uralides-Timanides complexes: Contribution in the Late Precambrian stratigraphy of the Enganepe Uplift, Western Polar Urals. <i>Doklady Earth Sciences</i> , 2009 , 424, 41-46	0.6	11
83	Upper mantle structure beneath eastern Siberia: Evidence from gravity modeling and mantle petrology. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4,	3.6	11
82	Tracking Deep Lithospheric Events with Garnet-Websterite Xenoliths from Southeastern Australia. <i>Journal of Petrology</i> , 2018 , 59, 901-930	3.9	11
81	Pre-Mesozoic Crimea as a continuation of the Dobrogea platform: insights from detrital zircons in Upper Jurassic conglomerates, Mountainous Crimea. <i>International Journal of Earth Sciences</i> , 2019 , 108, 2407-2428	2.2	10
80	Lateral and Vertical Heterogeneity in the Lithospheric Mantle at the Northern Margin of the Pannonian Basin Reconstructed From Peridotite Xenolith Microstructures. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 6315-6336	3.6	10
79	Discovery of the first natural hydride. <i>American Mineralogist</i> , 2019 , 104, 611-614	2.9	10
78	Ancient mantle lithosphere beneath the Khanka massif in the Russian Far East: in situ ReOs evidence. <i>Terra Nova</i> , 2015 , 27, 277-284	3	10
77	Widespread Paleoproterozoic basement in the eastern Cathaysia Block: Evidence from metasedimentary rocks of the Pingtan-Dongshan metamorphic belt, in southeastern China. <i>Precambrian Research</i> , 2016 , 285, 91-108	3.9	10

76	Isotope fractionation of neon during stepheating extraction?: a comment on Re-interpretation of the existence of a primitive plume under Australia based on neon isotope fractionation during step heating by Gautheron and Moreira (2003). <i>Terra Nova</i> , 2004 , 16, 23-26	3	10
75	Tectonic Switching of Southeast China in the Late Paleozoic. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 8508-8526	3.6	10
74	Lithospheric memory of subduction in mantle pyroxenite xenoliths from rift-related basalts. <i>Earth and Planetary Science Letters</i> , 2020 , 544, 116365	5.3	9
73	First isotopic data on detrital zircons from the Engane-Pe Uplift (western Polar Urals): Implications for the primary tectonic position of the Pre-Uralides-Timanides. <i>Doklady Earth Sciences</i> , 2009 , 426, 567-573	6.6	9
72	The boundary phase and the melting of CaSiO ₃ and MgSiO ₃ perovskites. <i>Journal of Physics and Chemistry of Solids</i> , 2000 , 61, 1815-1820	3.9	9
71	Heterogeneity in the thermal state of the lower crust and upper mantle beneath eastern Australia. <i>Exploration Geophysics</i> , 1991 , 22, 295-298	1	9
70	A reappraisal of the metamorphic history of the Tehuizingo chromitite, Puebla state, Mexico. <i>International Geology Review</i> , 2019 , 61, 1706-1727	2.3	9
69	Subduction initiation and back-arc opening north of Neo-Tethys: Evidence from the Late Cretaceous Torbat-e-Heydarieh ophiolite of NE Iran. <i>Bulletin of the Geological Society of America</i> , 2020 , 132, 1083-1105	3.9	9
68	Discussion of Enigmatic super-reduced phases in corundum from natural rocks: Possible contamination from artificial abrasive materials or metallurgical slags by Litasov et al. (Lithos, 340B41, p.181B90). <i>Lithos</i> , 2019 , 348-349, 105122	2.9	8
67	Parageneses of TiB ₂ in corundum xenoliths from Mt. Carmel, Israel: Siderophile behavior of boron under reducing conditions. <i>American Mineralogist</i> , 2020 , 105, 1609-1621	2.9	8
66	Insights into the mantle geochemistry of scandium from a meta-analysis of garnet data. <i>Lithos</i> , 2018 , 310-311, 409-421	2.9	8
65	A cobalt-rich spinel inclusion in a sapphire from Bo Ploi, Thailand. <i>Mineralogical Magazine</i> , 1994 , 58, 247-258	2.5	8
64	Rb/Sr evidence for the nature of the mantle, thermal events and volcanic activity of the Southeastern Australian continental margin. <i>Journal of Volcanology and Geothermal Research</i> , 1984 , 21, 107-117	2.8	8
63	New constraints on the source, composition, and post-emplacement modification of kimberlites from in situ CDBr-isotope analyses of carbonates from the Benfontein sills (South Africa). <i>Contributions To Mineralogy and Petrology</i> , 2020 , 175, 1	3.5	7
62	Carboniferous and Permian granites of the northern Tasman orogenic belt, Queensland, Australia: insights into petrogenesis and crustal evolution from an in situ zircon study. <i>International Journal of Earth Sciences</i> , 2013 , 102, 647-669	2.2	7
61	Lithospheric mantle evolution beneath northeast Australia. <i>Lithos</i> , 2011 , 125, 405-422	2.9	7
60	Almandine megacrysts from Yingfengling Cenozoic basalt in Leizhou Peninsula and their parental magma origin. <i>Science Bulletin</i> , 2001 , 46, 1215-1219		7
59	Petrogenesis and its significance to continental dynamics of the Neogene high-potassium calc-alkaline volcanic rock association from north Qiangtang, Tibetan Plateau. <i>Science in China Series D: Earth Sciences</i> , 2001 , 44, 45-55		7

58	Applications of Olivine--Orthopyroxene--Spinel Oxygen Geobarometers to the Redox State of the Upper Mantle. <i>Journal of Petrology</i> , 1991 , Special_Volume, 291-306	3.9	7
57	Discussion: The Sydney Basin: Composition of basement. <i>Australian Journal of Earth Sciences</i> , 1990 , 37, 485-486	1.4	7
56	Single zircon LAM-ICPMS U-Pb dating of Guidong complex (SE China) and its petrogenetic significance. <i>Science Bulletin</i> , 2003 , 48, 1892		7
55	Comment on Ultra-high pressure and ultra-reduced minerals in ophiolites may form by lightning strikes by Ballhaus et al., 2017: Ultra-high pressure and super-reduced minerals in ophiolites do not form by lightning strikes. <i>Geochemical Perspectives Letters</i> , 1-2	3	7
54	Reworking of old continental lithosphere: Unradiogenic Os and decoupled Hf Nd isotopes in sub-arc mantle pyroxenites. <i>Lithos</i> , 2020 , 354-355, 105346	2.9	7
53	Immiscible metallic melts in the deep Earth: clues from moissanite (SiC) in volcanic rocks. <i>Science Bulletin</i> , 2020 , 65, 1479-1488	10.6	6
52	Metasomatic control of hydrogen contents in the layered cratonic mantle lithosphere sampled by Lac de Gras xenoliths in the central Slave craton, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 286, 29-53	5.5	6
51	Deposits associated with ultramafic mafic complexes in Mexico: the Loma Baya case. <i>Ore Geology Reviews</i> , 2017 , 81, 1053-1065	3.2	5
50	Oceanization of the subcontinental lithospheric mantle recorded in the Yunzhug ophiolite, Central Tibetan Plateau. <i>Lithos</i> , 2020 , 370-371, 105612	2.9	5
49	Global- to Deposit-Scale Controls on Orthomagmatic Ni-Cu(-PGE) and PGE Reef Ore Formation 2018 , 1-46		5
48	Carbon isotopes of eclogite-hosted diamonds from the Nyurbinskaya kimberlite pipe, Yakutia: The metasomatic origin of diamonds. <i>Chemical Geology</i> , 2017 , 455, 131-147	4.2	5
47	Deformation microstructures reveal a complex mantle history for polycrystalline diamond. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	5
46	Temporal and genetic relationships between the Kidston gold-bearing Breccia Pipe and the Lochaber Ring Dyke Complex, North Queensland, Australia: insights from in situ U-Pb and Hf-isotope analysis of zircon. <i>Mineralogy and Petrology</i> , 2009 , 95, 17-45	1.6	5
45	Variations of the Effective Elastic Thickness (Te) and Structure of the Lithosphere Beneath the Slave Province, Canada. <i>Exploration Geophysics</i> , 2005 , 36, 266-271	1	5
44	Trace-element of Tuoyun clinopyroxene: Implication for the deep processes of lithospheric mantle beneath the southwest Tianshan, West China. <i>Science Bulletin</i> , 2001 , 46, 1206-1211		5
43	DEPLETED SSZ TYPE MANTLE PERIDOTITES IN PROTEROZOIC EASTERN SAYAN OPHIOLITES IN SIBERIA. <i>Geodinamika I Tektonofizika</i> , 2017 , 8, 583-587	0.8	5
42	Granulite facies xenoliths from the Yuhuashan complex, central Jiangxi, South China: constraints on Late Palaeozoic orogeny and middle-lower crust components. <i>Journal of Metamorphic Geology</i> , 2016 , 34, 45-61	4.4	5
41	Melt Migration and Interaction in a Dunite Channel System within Oceanic Forearc Mantle: the Yushigou Harzburgite-Dunite Associations, North Qilian Ophiolite (NW China). <i>Journal of Petrology</i> , 2021 , 62,	3.9	5

40	Constraints from zircon Hf-O-Li isotopic compositions on the genesis of slightly low- $\delta^{18}\text{O}$ alkaline granites in the Taohuadao area, Zhejiang Province, SE China. <i>Journal of Asian Earth Sciences</i> , 2018 , 167, 197-208	2.8	4
39	Seeking the primary compositions of mantle xenoliths: Isotopic and elemental consequences of sequential leaching treatments on an eclogite suite. <i>Chemical Geology</i> , 2012 , 328, 137-148	4.2	4
38	Paleogeothermal gradients in Australia: Key to 4-D lithosphere mapping* The original paper was published in the AGSO Journal of Australian Geology & Geophysics in 1997, immediately prior to its incorporation with the Australian Journal of Earth Sciences.. <i>Australian Journal of Earth Sciences</i> , 1998 , 45, 817-821	1.4	4
37	Re-Os Isotope Systematics of Sulfides in Chromitites and Host Lherzolites of the Andaman Ophiolite, India. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 686	2.4	4
36	Deep lithosphere of the North China Craton archives the fate of the Paleo-Asian Ocean. <i>Earth-Science Reviews</i> , 2021 , 215, 103554	10.2	4
35	The Earliest Subcontinental Lithospheric Mantle 2019 , 81-102		4
34	Timing the tectonic mingling of ultramafic rocks and metasediments in the southern section of the coastal accretionary complex of central Chile. <i>International Geology Review</i> , 2018 , 60, 2031-2045	2.3	4
33	Petrological Evolution of the European Lithospheric Mantle: from Archean to Present Day. <i>Journal of Petrology</i> , 2009 , 50, 1181-1184	3.9	3
32	Metasomatism versus host magma infiltration: A case study of Sal mantle xenoliths, Cape Verde Archipelago 2011 ,		3
31	Lithosphere structure and evolution in southeastern Australia 2003 ,		3
30	Pyroxenite Xenoliths Record Complex Melt Impregnation in the Deep Lithosphere of the Northwestern North China Craton. <i>Journal of Petrology</i> , 2021 , 62,	3.9	3
29	Apatite halogens and Sr O and zircon Hf O isotopes: Recycled volatiles in Jurassic porphyry ore systems in southern Tibet. <i>Chemical Geology</i> , 2022 , 120924	4.2	3
28	Feedback of mantle metasomatism on olivine microfabric and seismic properties of the deep lithosphere. <i>Lithos</i> , 2019 , 328-329, 43-57	2.9	2
27	Corrigendum to Bulfide in dunite channels reflects long-distance reactive migration of mid-ocean-ridge melts from mantle source to crust: A Re-Os isotopic perspective [Earth Planet. Sci. Lett. 531 (2020) 115969]. <i>Earth and Planetary Science Letters</i> , 2020 , 535, 116136	5.3	2
26	Tracking the birth and growth of Cimmeria: Geochronology and origins of intrusive rocks from NW Iran. <i>Gondwana Research</i> , 2020 , 87, 188-206	5.1	2
25	Nitrogen under Super-Reducing Conditions: Ti Oxynitride Melts in Xenolithic Corundum Aggregates from Mt Carmel (N. Israel). <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 780	2.4	2
24	Ti in corundum traces crystal growth in a highly reduced magma. <i>Scientific Reports</i> , 2021 , 11, 2439	4.9	2
23	Making and unmaking continental mantle: Geochemical and geophysical perspectives. <i>Acta Geologica Sinica</i> , 2019 , 93, 249-250	0.7	1

22	Temporal correlation of magmatic-tectonic events in the lower and upper crust in north-east Australia. <i>International Journal of Earth Sciences</i> , 2012 , 101, 1091-1109	2.2	1
21	Petrological evolution of the European lithospheric mantle: introduction. <i>Geological Society Special Publication</i> , 2010 , 337, 1-5	1.7	1
20	Trace element characteristics in the diopsides of peridotite xenoliths: a laser ablation-inductively coupled plasma-mass spectrometry study. <i>Science Bulletin</i> , 1998 , 43, 579-583		1
19	Geochronology in New South Wales. <i>Australian Journal of Earth Sciences</i> , 2008 , 55, 737-740	1.4	1
18	Element diffusion ability in metasomatic agents and its effect on chemical characteristics of metasomatized peridotites. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 926-937		1
17	Granulite xenoliths from Cenozoic Basalts in SE China provide geochemical fingerprints to distinguish lower crust terranes from the North and South China tectonic blocksReply. <i>Lithos</i> , 2004 , 73, 135-144	2.9	1
16	Structure and composition of the lithosphere beneath Mount Carmel, North Israel. <i>Contributions To Mineralogy and Petrology</i> , 2022 , 177, 1	3.5	1
15	Geochemical variability among stratiform chromitites and ultramafic rocks from Western Makran, South Iran. <i>Lithos</i> , 2022 , 106591	2.9	1
14	Open System Re-Os Isotope Behavior in Platinum-Group Minerals during Laterization?. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 1083	2.4	1
13	Uplift of the southeastern Australian lithosphere: Thermal-tectonic evolution of garnet pyroxenite xenoliths from western Victoria. <i>Special Paper of the Geological Society of America</i> , 2017 , 27-48		1
12	The subantarctic lithospheric mantle. <i>Geological Society Memoir</i> , M56-2020-13	0.4	1
11	Temporal changes in subduction- to collision-related magmatism in the Neotethyan orogen: The Southeast Iran example. <i>Earth-Science Reviews</i> , 2022 , 226, 103930	10.2	0
10	Melting Dynamics of Late Cretaceous Lamprophyres in Central Asia Suggest a Mechanism to Explain Many Continental Intraplate Basaltic Suite Magmatic Provinces. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB021663	3.6	0
9	Lithospheric mapping: a pathfinder for hidden terrane and ore systems in southern Lhasa block. <i>Acta Geologica Sinica</i> , 2019 , 93, 204-204	0.7	
8	Complex evolution of the lower crust beneath the southeastern North China Craton: The Junan xenoliths and xenocrysts: Reply. <i>Lithos</i> , 2015 , 234-235, 96-99	2.9	
7	Sulfide Aggregation in Ophiolitic Dunite Channels Explains Os-Isotope Mismatch between Oceanic Crust and Mantle. <i>Acta Geologica Sinica</i> , 2020 , 94, 66-66	0.7	
6	Geoscience Data Integration: Insights into Mapping Lithospheric Architecture. <i>ASEG Extended Abstracts</i> , 2015 , 2015, 1-2	0.2	
5	Petrogenesis and geochronology of Cretaceous adakitic, I- and A-type granitoids in the NE Yangtze block: Constraints on the eastern subsurface boundary between the North and South China blocks: Reply. <i>Lithos</i> , 2014 , 196-197, 380-383	2.9	

- 4 Reply to dunite magma or ultramafic cumulates? A discussion of Griffin et al. Intrusion and contamination of high-temperature dunite magma: the Nordre Bumandsfjord pluton, Seiland, Arctic Norway *Contributions To Mineralogy and Petrology*, **2013**, 166, 1543-1544 3.5
- 3 The integration of geophysics and geochemistry reveals the nature of the lithosphere beneath the Slave Craton (Canada). *ASEG Extended Abstracts*, **2004**, 2004, 1-3 0.2
- 2 The evolution of lithospheric domains: A new framework to enhance mineral exploration targeting **2005**, 41-44
- 1 The microstructure of layered ultramafic cumulates: Case study of the Bear Creek intrusion, Trinity ophiolite, California, USA. *Lithos*, **2021**, 388-389, 106047 2.9