William L. Griffin

List of Publications by Citations

647 papers	52,309 citations	106 h-index	208 g-index
684 ext. papers	57,246 ext. citations	3.8 avg, IF	7.61 L-index

#	Paper	IF	Citations
647	THREE NATURAL ZIRCON STANDARDS FOR U-TH-PB, LU-HF, TRACE ELEMENT AND REE ANALYSES. *Geostandards and Geoanalytical Research*, **1995**, 19, 1-23	3.6	3875
646	The application of laser ablation-inductively coupled plasma-mass spectrometry to in situ UPb zircon geochronology. *Chemical Geology*, **2004**, 211, 47-69	4.2	3343
645	The Hf isotope composition of cratonic mantle: LAM-MC-ICPMS analysis of zircon megacrysts in kimberlites. *Geochimica Et Cosmochimica Acta*, **2000**, 64, 133-147	5.5	2511
644	Zircon chemistry and magma mixing, SE China: In-situ analysis of Hf isotopes, Tonglu and Pingtan igneous complexes. *Lithos*, **2002**, 61, 237-269	2.9	2014
643	Igneous zircon: trace element composition as an indicator of source rock type. *Contributions To Mineralogy and Petrology*, **2002**, 143, 602-622	3.5	1669
642	Archean crustal evolution in the northern Yilgarn Craton: UPb and Hf-isotope evidence from detrital zircons. *Precambrian Research*, **2004**, 131, 231-282	3.9	862
641	The growth of the continental crust: Constraints from zircon Hf-isotope data. *Lithos*, **2010**, 119, 457-466	2.9	571
640	Granitoid events in space and time: Constraints from igneous and detrital zircon age spectra. *Gondwana Research*, **2009**, 15, 228-242	5.1	490
639	Detrital zircon geochronology of Precambrian basement sequences in the Jiangnan orogen: Dating the assembly of the Yangtze and Cathaysia Blocks. *Precambrian Research*, **2007**, 159, 117-131	3.9	475
638	The Composition and Evolution of Lithospheric Mantle: a Re-evaluation and its Tectonic Implications. *Journal of Petrology*, **2009**, 50, 1185-1204	3.9	441
637	Zircon Crystal Morphology, Trace Element Signatures and Hf Isotope Composition as a Tool for Petrogenetic Modelling: Examples From Eastern Australian Granitoids. *Journal of Petrology*, **2006**, 47, 329-353	3.9	436
636	Phanerozoic evolution of the lithosphere beneath the Sino-Korean craton. *Geodynamic Series*, **1998**, 107-126		434
635	Widespread Archean basement beneath the Yangtze craton. *Geology*, **2006**, 34, 417	5	417
634	Application of proton-microprobe data to trace-element partitioning in volcanic rocks. *Chemical Geology*, **1994**, 117, 251-284	4.2	392
633	Non-chondritic distribution of the highly siderophile elements in mantle sulphides. *Nature*, **2000**, 407, 891-4	50.4	380
632	The lithospheric architecture of Africa: Seismic tomography, mantle petrology, and tectonic evolution **2009**, 5, 23-50		377
631	The origin and evolution of Archean lithospheric mantle. *Precambrian Research*, **2003**, 127, 19-41	3.9	372

630	The crust of Cathaysia: Age, assembly and reworking of two terranes. *Precambrian Research*, **2007**, 158, 51-78	3.9	357
629	Components and episodic growth of Precambrian crust in the Cathaysia Block, South China: Evidence from UPb ages and Hf isotopes of zircons in Neoproterozoic sediments. *Precambrian Research*, **2010**, 181, 97-114	3.9	334
628	The density structure of subcontinental lithosphere through time. *Earth and Planetary Science Letters*, **2001**, 184, 605-621	5.3	334
627	Apatite as an indicator mineral for mineral exploration: trace-element compositions and their relationship to host rock type. *Journal of Geochemical Exploration*, **2002**, 76, 45-69	3.8	330
626	A Paleoproterozoic orogeny recorded in a long-lived cratonic remnant (Wuyishan terrane), eastern Cathaysia Block, China. *Precambrian Research*, **2009**, 174, 347-363	3.9	319
625	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. *Geochimica Et Cosmochimica Acta*, **2007**, 71, 5203-5225	5.5	302
624	Relict refractory mantle beneath the eastern North China block: significance for lithosphere evolution. *Lithos*, **2001**, 57, 43-66	2.9	302
623	QUANTITATIVE ANALYSIS OF TRACE ELEMENTS IN GEOLOGICAL MATERIALS BY LASER ABLATION ICPMS: INSTRUMENTAL OPERATING CONDITIONS AND CALIBRATION VALUES OF NIST GLASSES. *Geostandards and Geoanalytical Research*, **1996**, 20, 247-261	3.6	301
622	SNIP, a statistics-sensitive background treatment for the quantitative analysis of PIXE spectra in geoscience applications. *Nuclear Instruments & Methods in Physics Research B*, **1988**, 34, 396-402	1.2	294
621	Mesozoic decratonization of the North China block. *Geology*, **2008**, 36, 467	5	282
620	Volatile-bearing minerals and lithophile trace elements in the upper mantle. *Chemical Geology*, **1997**, 141, 153-184	4.2	270
619	Mantle metasomatism beneath western Victoria, Australia: I. Metasomatic processes in Cr-diopside lherzolites. *Geochimica Et Cosmochimica Acta*, **1988**, 52, 433-447	5.5	268
618	Comment: Hf-isotope heterogeneity in zircon 91500. *Chemical Geology*, **2006**, 233, 358-363	4.2	263
617	3.6 Ga lower crust in central China: New evidence on the assembly of the North China craton. *Geology*, **2004**, 32, 229	5	259
616	Quantitative pixe microanalysis of geological matemal using the CSIRO proton microprobe. *Nuclear Instruments & Methods in Physics Research B*, **1990**, 47, 55-71	1.2	255
615	Chronology of the pressure-temperature history recorded by a granulite terrain. *Contributions To Mineralogy and Petrology*, **1988**, 98, 303-311	3.5	254
614	Where was South China in the Rodinia supercontinent?. *Precambrian Research*, **2008**, 164, 1-15	3.9	240
613	Apatite in the mantle: implications for metasomatic processes and high heat production in Phanerozoic mantle. *Lithos*, **2000**, 53, 217-232	2.9	217

612	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. *Precambrian Research*, **2012**, 222-223, 424-449	3.9	213
611	The evolution of lithospheric mantle beneath the Kalahari Craton and its margins. *Lithos*, **2003**, 71, 215-241	4.9	212
610	U-Pb ages and source composition by Hf-isotope and trace-element analysis of detrital zircons in Permian sandstone and modern sand from southwestern Australia and a review of the paleogeographical and denudational history of the Yilgarn Craton. *Earth-Science Reviews*, **2005**, 68, 245-279	10.2	210
609	A xenolith-derived geotherm for southeastern australia and its geophysical implications. *Tectonophysics*, **1985**, 111, 41-63	3.1	210
608	Layered Mantle Lithosphere in the Lac de Gras Area, Slave Craton: Composition, Structure and Origin. *Journal of Petrology*, **1999**, 40, 705-727	3.9	207
607	Geochemical zonation across a Neoproterozoic orogenic belt: Isotopic evidence from granitoids and metasedimentary rocks of the Jiangnan orogen, China. *Precambrian Research*, **2014**, 242, 154-171	3.9	204
606	Are Lithospheres Forever? Tracking Changes in Subcontinental Lithospheric Mantle Through Time. *GSA Today*, **2001**, 11, 4	2.8	202
605	Nature and Evolution of Cenozoic Lithospheric Mantle beneath Shandong Peninsula, Sino-Korean Craton, Eastern China. *International Geology Review*, **1998**, 40, 471-499	2.3	201
604	New insights into the Re-Os systematics of sub-continental lithospheric mantle from in situ analysis of sulphides. *Earth and Planetary Science Letters*, **2002**, 203, 651-663	5.3	200
603	Genesis of Young Lithospheric Mantle in Southeastern China: an LAM-ICPMS Trace Element Study. *Journal of Petrology*, **2000**, 41, 111-148	3.9	200
602	Harzburgite to lherzolite and back again: metasomatic processes in ultramafic xenoliths from the Wesselton kimberlite, Kimberley, South Africa. *Contributions To Mineralogy and Petrology*, **1999**, 134, 232-250	3.5	195
601	Precambrian crustal evolution of the Yangtze Block tracked by detrital zircons from Neoproterozoic sedimentary rocks. *Precambrian Research*, **2010**, 177, 131-144	3.9	191
600	The Siberian lithosphere traverse: mantle terranes and the assembly of the Siberian Craton. *Tectonophysics*, **1999**, 310, 1-35	3.1	185
599	Lithospheric, Cratonic, and Geodynamic Setting of Ni-Cu-PGE Sulfide Deposits. *Economic Geology*, **2010**, 105, 1057-1070	4.3	184
598	Shear deformation and eclogite formation within granulite-facies anorthosites of the Bergen Arcs, western Norway. *Chemical Geology*, **1985**, 50, 267-281	4.2	184
597	Ultramafic Xenoliths from Bullenmerri and Gnotuk Maars, Victoria, Australia: Petrology of a Sub-Continental Crust-Mantle Transition. *Journal of Petrology*, **1984**, 25, 53-87	3.9	182
596	Thermal and petrological structure of the lithosphere beneath Hannuoba, Sino-Korean Craton, China: evidence from xenoliths. *Lithos*, **2001**, 56, 267-301	2.9	181
595	Mineral Chemistry of Peridotites from Paleozoic, Mesozoic and Cenozoic Lithosphere: Constraints on Mantle Evolution beneath Eastern China. *Journal of Petrology*, **2006**, 47, 2233-2256	3.9	180

594	Is the continental Moho the crust-mantle boundary?. *Geology*, **1987**, 15, 241	5	180
593	In situ Os isotopes in abyssal peridotites bridge the isotopic gap between MORBs and their source mantle. *Nature*, **2005**, 436, 1005-8	50.4	176
592	Crustal Evolution in the SW Part of the Baltic Shield: the Hf Isotope Evidence. *Journal of Petrology*, **2002**, 43, 1725-1747	3.9	175
591	Lithosphere evolution beneath the Kaapvaal Craton: Re□Os systematics of sulfides in mantle-derived peridotites. *Chemical Geology*, **2004**, 208, 89-118	4.2	169
590	Apatite Composition: Tracing Petrogenetic Processes in Transhimalayan Granitoids. *Journal of Petrology*, **2009**, 50, 1829-1855	3.9	168
589	Lithosphere mapping beneath the North American plate?. *Lithos*, **2004**, 77, 873-922	2.9	168
588	U□b isotopic ages and Hf isotopic composition of single zircons: The search for juvenile Precambrian continental crust. *Precambrian Research*, **2005**, 139, 42-100	3.9	166
587	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. *Journal of Analytical Atomic Spectrometry*, **1998**, 13, 477-482	3.7	166
586	Tracing Cu and Fe from source to porphyry: in situ determination of Cu and Fe isotope ratios in sulfides from the Grasberg Cu□u deposit. *Chemical Geology*, **2004**, 207, 147-169	4.2	165
585	The Taihua group on the southern margin of the North China craton: further insights from U□b ages and Hf isotope compositions of zircons. *Mineralogy and Petrology*, **2009**, 97, 43-59	1.6	164
584	Integrated geophysical-petrological modeling of the lithosphere and sublithospheric upper mantle: Methodology and applications. *Geochemistry, Geophysics, Geosystems*, **2008**, 9, n/a-n/a	3.6	162
583	Early crustal evolution in the western Yangtze Block: Evidence from U□b and Lu□f isotopes on detrital zircons from sedimentary rocks. *Precambrian Research*, **2012**, 222-223, 368-385	3.9	159
582	Continental-root control on the genesis of magmatic ore deposits. *Nature Geoscience*, **2013**, 6, 905-910	18.3	155
581	Superdeep diamonds from the Juina area, Mato Grosso State, Brazil. *Contributions To Mineralogy and Petrology*, **2001**, 140, 734-753	3.5	152
580	Garnet geotherms: Pressure-temperature data from Cr-pyrope garnet xenocrysts in volcanic rocks. *Journal of Geophysical Research*, **1996**, 101, 5611-5625		152
579	Caledonian Sm□d ages and a crustal origin for Norwegian eclogites. *Nature*, **1980**, 285, 319-321	50.4	152
578	Triassic □dakitic□rocks in an extensional setting (North China): Melts from the cratonic lower crust. *Lithos*, **2012**, 149, 159-173	2.9	150
577	Residence of trace elements in metasomatized spinel lherzolite xenoliths: a proton-microprobe study. *Contributions To Mineralogy and Petrology*, **1991**, 109, 98-113	3.5	150

576	In situ measurement of Re-Os isotopes in mantle sulfides by laser ablation multicollector-inductively coupled plasma mass spectrometry: analytical methods and preliminary results. *Geochimica Et Cosmochimica Acta*, **2002**, 66, 1037-1050	5.5	148
575	The trapped fluid phase in upper mantle xenoliths from Victoria, Australia: implications for mantle metasomatism. *Contributions To Mineralogy and Petrology*, **1984**, 88, 72-85	3.5	145
574	Chromitites in ophiolites: How, where, when, why? Part II. The crystallization of chromitites. *Lithos*, **2014**, 189, 140-158	2.9	140
573	The world turns over: Hadean-Archean crust-mantle evolution. *Lithos*, **2014**, 189, 2-15	2.9	138
572	Are continental adakites derived from thickened or foundered lower crust?. *Earth and Planetary Science Letters*, **2015**, 419, 125-133	5.3	137
571	High-Cr and high-Al chromitites from the Sagua de Tánamo district, Mayarí-Cristal ophiolitic massif (eastern Cuba): Constraints on their origin from mineralogy and geochemistry of chromian spinel and platinum-group elements. *Lithos*, **2011**, 125, 101-121	2.9	137
570	Archaean and Proterozoic crustal evolution in Lofoten, Vesterålen, N Norway. *Journal of the Geological Society*, **1978**, 135, 629-647	2.7	137
569	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. *Gondwana Research*, **2010**, 17, 583-601	5.1	134
568	Trace elements in indicator minerals: area selection and target evaluation in diamond exploration. *Journal of Geochemical Exploration*, **1995**, 53, 311-337	3.8	128
567	A new model for the evolution of diamond-forming fluids: Evidence from microinclusion-bearing diamonds from Kankan, Guinea. *Lithos*, **2009**, 112, 660-674	2.9	127
566	Imaging global chemical and thermal heterogeneity in the subcontinental lithospheric mantle with garnets and xenoliths: Geophysical implications. *Tectonophysics*, **2006**, 416, 289-309	3.1	127
565	Mantle formation and evolution, Slave Craton: constraints from HSE abundances and Re-Os isotope systematics of sulfide inclusions in mantle xenocrysts. *Chemical Geology*, **2004**, 208, 61-88	4.2	127
564	Trace element composition and cathodoluminescence properties of southern African kimberlitic zircons. *Mineralogical Magazine*, **1998**, 62, 355-366	1.7	125
563	Mantle metasomatism beneath western Victoria, Australia: II. Isotopic geochemistry of Cr-diopside lherzolites and Al-augite pyroxenites. *Geochimica Et Cosmochimica Acta*, **1988**, 52, 449-459	5.5	124
562	Cadomian (Ediacaran-Cambrian) arc magmatism in the Chah-Jam-Biarjmand metamorphic complex (Iran): Magmatism along the northern active margin of Gondwana. *Gondwana Research*, **2015**, 27, 439-452	5.1	120
561	Granitic magmatism, basement ages, and provenance indicators in the Malay Peninsula: Insights from detrital zircon U-Pb and Hf-isotope data. *Gondwana Research*, **2011**, 19, 1024-1039	5.1	120
560	Mineral inclusions in diamonds from the Sputnik kimberlite pipe, Yakutia. *Lithos*, **1997**, 39, 135-157	2.9	120
559	Quantitative analysis of PIXE spectra in geoscience applications. *Nuclear Instruments & Methods in Physics Research B*, **1990**, 49, 271-276	1.2	120

558	Mapping olivine composition in the lithospheric mantle. *Earth and Planetary Science Letters*, **2000**, 182, 223-235	5.3	119
557	Mesoarchean subduction processes: 2.87 Ga eclogites from the Kola Peninsula, Russia. *Geology*, **2010**, 38, 739-742	5	118
556	Distribution of K, Rb, Sr and Ba in some minerals relevant to basalt genesis. *Geochimica Et Cosmochimica Acta*, **1969**, 33, 1389-1414	5.5	116
555	Early Archaean granulite-facies metamorphism south of Ameralik, West Greenland. *Earth and Planetary Science Letters*, **1980**, 50, 59-74	5.3	115
554	Archaean and Proterozoic crustal evolution in the Eastern Succession of the Mt Isa district, Australia: U Pb and Hf-isotope studies of detrital zircons *View all notes. *Australian Journal of Earth Sciences*, **2006**, 53, 125-149	1.4	112
553	UPb and LuHf isotopes in detrital zircon from Neoproterozoic sedimentary rocks in the northern Yangtze Block: Implications for Precambrian crustal evolution. *Gondwana Research*, **2013**, 23, 1261-1272	5.1	111
552	Ni in chrome pyrope garnets: a new geothermometer. *Contributions To Mineralogy and Petrology*, **1989**, 103, 199-202	3.5	111
551	Cratonic lithospheric mantle: Is anything subducted?. *Episodes*, **2007**, 30, 43-53	1.6	110
550	Provenance comparisons of Permian to Jurassic tectonostratigraphic terranes in New Zealand: perspectives from detrital zircon age patterns. *Geological Magazine*, **2007**, 144, 701-729	2	109
549	Multiple events in the Neo-Tethyan oceanic upper mantle: Evidence from RuOsIr alloys in the Luobusa and Dongqiao ophiolitic podiform chromitites, Tibet. *Earth and Planetary Science Letters*, **2007**, 261, 33-48	5.3	109
548	A xenolith-derived geotherm and the crust-mantle boundary at Qilin, southeastern China. *Lithos*, **1996**, 38, 41-62	2.9	109
547	Mantle Recycling: Transition Zone Metamorphism of Tibetan Ophiolitic Peridotites and its Tectonic Implications. *Journal of Petrology*, **2016**, 57, 655-684	3.9	109
546	Geochemistry and geochronology of Carboniferous volcanic rocks in the eastern Junggar terrane, NW China: Implication for a tectonic transition. *Gondwana Research*, **2012**, 22, 1009-1029	5.1	108
545	Provenance of Lower Cretaceous WBng Volcaniclastics in the Tibetan Tethyan Himalaya: Implications for the final breakup of Eastern Gondwana. *Sedimentary Geology*, **2010**, 223, 193-205	2.8	108
544	Mid-Proterozoic magmatic arc evolution at the southwest margin of the Baltic Shield?. *Lithos*, **2004**, 73, 289-318	2.9	107
543	ReOs isotopes of sulfides in mantle xenoliths from eastern China: Progressive modification of lithospheric mantle. *Lithos*, **2008**, 102, 43-64	2.9	106
542	Rejuvenation vs. recycling of Archean crust in the Gawler Craton, South Australia: Evidence from UPb and Hf isotopes in detrital zircon. *Lithos*, **2009**, 113, 570-582	2.9	105
541	UPb and Hf-isotope analysis of zircons in mafic xenoliths from Fuxian kimberlites: evolution of the lower crust beneath the North China craton. *Contributions To Mineralogy and Petrology*, **2004**, 148, 79-103	3.5	105

540	Petrological implications of some corona structures. *Lithos*, **1973**, 6, 315-335	2.9	104
539	Mg and Fe-rich carbonate–silicate high-density fluids in cuboid diamonds from the Internationalnaya kimberlite pipe (Yakutia). *Lithos*, **2009**, 112, 638-647	2.9	103
538	The continental lithosphere–asthenosphere boundary: Can we sample it?. *Lithos*, **2010**, 120, 1-13	2.9	103
537	Ophiolites of Iran: Keys to understanding the tectonic evolution of SW Asia: (II) Mesozoic ophiolites. *Journal of Asian Earth Sciences*, **2015**, 100, 31-59	2.8	102
536	Diachronous decratonization of the Sino-Korean craton: Geochemistry of mantle xenoliths from North Korea. *Geology*, **2010**, 38, 799-802	5	102
535	Two age populations of zircons from the Timber Creek kimberlites, Northern Territory, as determined by laser-ablation ICP-MS analysis. *Australian Journal of Earth Sciences*, **2001**, 48, 757	1.4	102
534	Mantle Metasomatism. *Lecture Notes in Earth System Sciences*, **2013**, 471-533	0.4	100
533	Metasomatism in mantle xenoliths from the Letlhakane kimberlites: estimation of element fluxes. *Contributions To Mineralogy and Petrology*, **2001**, 141, 397-414	3.5	99
532	Trace-element signatures of apatites in granitoids from the Mt Isa Inlier, northwestern Queensland. *Australian Journal of Earth Sciences*, **2001**, 48, 603-619	1.4	99
531	Cr-Pyrope Garnets in the Lithospheric Mantle. I. Compositional Systematics and Relations to Tectonic Setting. *Journal of Petrology*, **1999**, 40, 679-704	3.9	99
530	Trace-element zoning in garnets from sheared mantle xenoliths. *Geochimica Et Cosmochimica Acta*, **1989**, 53, 561-567	5.5	99
529	Finding of ancient materials in Cathaysia and implication for the formation of Precambrian crust. *Science Bulletin*, **2007**, 52, 13-22		98
528	Enrichment of upper mantle peridotite: petrological, trace element and isotopic evidence in xenoliths from SE China. *Chemical Geology*, **2003**, 198, 163-188	4.2	98
527	Relict Proterozoic basement in the Nanling Mountains (SE China) and its tectonothermal overprinting. *Tectonics*, **2005**, 24, n/a-n/a	4.3	97
526	4-D Lithosphere Mapping: methodology and examples. *Tectonophysics*, **1996**, 262, 3-18	3.1	97
525	Transformation of Archaean Lithospheric Mantle by Refertilization: Evidence from Exposed Peridotites in the Western Gneiss Region, Norway. *Journal of Petrology*, **2006**, 47, 1611-1636	3.9	95
524	Melt/mantle mixing produces podiform chromite deposits in ophiolites: Implications of Re–Os systematics in the Dongqiao Neo-tethyan ophiolite, northern Tibet. *Gondwana Research*, **2012**, 21, 194-206	5.1	94
523	Fractionation of oxygen and iron isotopes by partial melting processes: Implications for the interpretation of stable isotope signatures in mafic rocks. *Earth and Planetary Science Letters*, **2009**, 283, 156-166	5.3	93

522	Composition of trapped fluids in cuboid fibrous diamonds from the Udachnaya kimberlite: LAM-ICPMS analysis. *Chemical Geology*, **2007**, 240, 151-162	4.2	92
521	The Pacific Gondwana margin in the late Neoproterozoic–early Paleozoic: Detrital zircon U–Pb ages from metasediments in northwest Argentina reveal their maximum age, provenance and tectonic setting. *Gondwana Research*, **2011**, 19, 71-83	5.1	91
520	Primary sulphide melt inclusions in mantle-derived megacrysts and pyroxenites. *Lithos*, **1987**, 20, 279-294	4.9	91
519	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. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 2586-2617	3.6	90
518	Trace elements in garnets and chromites: Diamond formation in the Siberian lithosphere. *Lithos*, **1993**, 29, 235-256	2.9	90
517	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. *Science Bulletin*, **2005**, 50, 2080		90
516	Zircons in mantle xenoliths record the Triassic Yangtze–North China continental collision. *Earth and Planetary Science Letters*, **2006**, 247, 130-142	5.3	89
515	Oxidation during metasomatism in ultramafic xenoliths from the Wesselton kimberlite, South Africa: implications for the survival of diamond. *Contributions To Mineralogy and Petrology*, **2001**, 141, 287-296	3.5	89
514	Trace elements in sulfide inclusions from Yakutian diamonds. *Contributions To Mineralogy and Petrology*, **1996**, 124, 111-125	3.5	89
513	The lower crust and upper mantle beneath northwestern Spitsbergen: evidence from xenoliths and geophysics. *Tectonophysics*, **1987**, 139, 169-185	3.1	89
512	Hf contents and Zr/Hf ratios in granitic zircons. *Geochemical Journal*, **2010**, 44, 65-72	0.9	87
511	Diamond, subcalcic garnet, and mantle metasomatism: Kimberlite sampling patterns define the link. *Geology*, **2007**, 35, 339	5	87
510	In situ Re-Os analysis of sulfide inclusions in kimberlitic olivine: New constraints on depletion events in the Siberian lithospheric mantle. *Geochemistry, Geophysics, Geosystems*, **2002**, 3, 1-25	3.6	87
509	Age, geochemistry and tectonic setting of the Neoproterozoic (ca 830 Ma) gabbros on the southern margin of the North China Craton. *Precambrian Research*, **2011**, 190, 35-47	3.9	85
508	Ultradeep continental roots and their oceanic remnants: A solution to the geochemical "mantle reservoir" problem?. *Lithos*, **2009**, 112, 1043-1054	2.9	85
507	Southward trench migration at ~130–120 Ma caused accretion of the Neo-Tethyan forearc lithosphere in Tibetan ophiolites. *Earth and Planetary Science Letters*, **2016**, 438, 57-65	5.3	84
506	Archean sulfide inclusions in Paleozoic zircon megacrysts from the Mir kimberlite, Yakutia: implications for the dating of diamonds. *Earth and Planetary Science Letters*, **2002**, 199, 111-126	5.3	84
505	Accretion and reworking beneath the North China Craton. *Lithos*, **2012**, 149, 61-78	2.9	82

504	In-situ U–Pb geochronology and Hf isotope analyses of the Rayner Complex, east Antarctica. *Contributions To Mineralogy and Petrology*, **2005**, 148, 689-706	3.5	82
503	LAM-ICPMS U–Pb dating of kimberlitic perovskite: Eocene–Oligocene kimberlites from the Kundelungu Plateau, D.R. Congo. *Earth and Planetary Science Letters*, **2008**, 267, 609-619	5.3	81
502	Geochemistry and Origin of Sulphide Minerals in Mantle Xenoliths: Qilin, Southeastern China. *Journal of Petrology*, **1999**, 40, 1125-1149	3.9	80
501	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. *Lithos*, **2014**, 192-195, 180-191	2.9	79
500	Chromitites in ophiolites: How, where, when, why? Part I. A review and new ideas on the origin and significance of platinum-group minerals. *Lithos*, **2014**, 189, 127-139	2.9	79
499	Granulite xenoliths from Cenozoic Basalts in SE China provide geochemical fingerprints to distinguish lower crust terranes from the North and South China tectonic blocks. *Lithos*, **2003**, 67, 77-102	2.9	78
498	Tibetan chromitites: Excavating the slab graveyard. *Geology*, **2015**, 43, 179-182	5	77
497	Timing of Late Neoproterozoic glaciation on Baltica constrained by detrital zircon geochronology in the Hedmark Group, south-east Norway. *Terra Nova*, **2005**, 17, 250-258	3	77
496	Conditions of diamond growth: a proton microprobe study of inclusions in West Australian diamonds. *Contributions To Mineralogy and Petrology*, **1988**, 99, 143-158	3.5	77
495	Age and isotopic characterisation of metasedimentary rocks from the Torlesse Supergroup and Waipapa Group in the central North Island, New Zealand. *New Zealand Journal of Geology, and Geophysics*, **2009**, 52, 149-170	1.6	75
494	Reply to Comment to short-communication ?Comment: Hf-isotope heterogeneity in zircon 91500' by W.L. Griffin, N.J. Pearson, E.A. Belousova and A. Saeed (Chemical Geology 233 (2006) 358–363) by F. Corfu. *Chemical Geology*, **2007**, 244, 354-356	4.2	75
493	Nature and evolution of Mesozoic–Cenozoic lithospheric mantle beneath the Cathaysia block, SE China. *Lithos*, **2004**, 74, 41-65	2.9	75
492	Neoproterozoic recycling of the Sveconorwegian orogenic belt: Detrital-zircon data from the Sparagmite basins in the Scandinavian Caledonides. *Precambrian Research*, **2011**, 189, 347-367	3.9	74
491	Two age populations of zircons from the Timber Creek kimberlites, Northern Territory, as determined by laser-ablation ICP-MS analysis. *Australian Journal of Earth Sciences*, **2001**, 48, 757-765	1.4	74
490	The nature of the Cenozoic lithosphere at Nushan, eastern China. *Geodynamic Series*, **1998**, 167-195		73
489	Variations in trapping temperatures and trace elements in peridotite-suite inclusions from African diamonds: evidence for two inclusion suites, and implications for lithosphere stratigraphy. *Contributions To Mineralogy and Petrology*, **1992**, 110, 1-15	3.5	73
488	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. *Precambrian Research*, **2011**, 187, 33-57	3.9	72
487	Sveconorwegian crustal underplating in southwestern Fennoscandia: LAM-ICPMS U–Pb and Lu–Hf isotope evidence from granites and gneisses in Telemark, southern Norway. *Lithos*, **2007**, 93, 273-287	2.9	72

486	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. *Science Bulletin*, **2005**, 50, 2080-2089	10.6	71
485	A refractory mantle protolith in younger continental crust, east-central China: Age and composition of zircon in the Sulu ultrahigh-pressure peridotite. *Geology*, **2006**, 34, 705	5	70
484	Paleozoic diamonds within a Precambrian peridotite lens in UHP gneisses of the Norwegian Caledonides. *Earth and Planetary Science Letters*, **2002**, 203, 805-816	5.3	70
483	Secular variation in the composition of subcontinental lithospheric mantle: Geophysical and geodynamic implications. *Geodynamic Series*, **1998**, 1-26		70
482	Continental crust beneath southeast Iceland. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E1818-27	11.5	69
481	Ultra-high pressure garnet inclusions in Monastery diamonds: trace element abundance patterns and conditions of origin. *European Journal of Mineralogy*, **1991**, 3, 213-230	2.2	69
480	Fingerprints of metamorphism in chromite: New insights from minor and trace elements. *Chemical Geology*, **2014**, 389, 137-152	4.2	68
479	Nucleation environment of diamonds from Yakutian kimberlites. *Mineralogical Magazine*, **1998**, 62, 409-419	1.7	68
478	Making it thick: a volcanic plateau origin of Palaeoarchean continental lithosphere of the Pilbara and Kaapvaal cratons. *Geological Society Special Publication*, **2015**, 389, 83-111	1.7	67
477	A translithospheric suture in the vanished 1-Ga lithospheric root of South India: Evidence from contrasting lithosphere sections in the Dharwar Craton. *Lithos*, **2009**, 112, 1109-1119	2.9	67
476	Subcontinental lithospheric mantle origin of high niobium/tantalum ratios in eclogites. *Nature Geoscience*, **2008**, 1, 468-472	18.3	67
475	Age and geochemistry of contrasting peridotite types in the Dabie UHP belt, eastern China: Petrogenetic and geodynamic implications. *Chemical Geology*, **2008**, 247, 282-304	4.2	67
474	In-situ hafnium and lead isotope analyses of detrital zircons from the Devonian sedimentary basin of NE Greenland: a record of repeated crustal reworking. *Contributions To Mineralogy and Petrology* , **2001**, 141, 83-94	3.5	67
473	Corundum from basaltic terrains: a mineral inclusion approach to the enigma. *Contributions To Mineralogy and Petrology*, **1996**, 122, 368-386	3.5	67
472	Minor elements in olivine from spinel lherzolite xenoliths: implications for thermobarometry. *Mineralogical Magazine*, **1997**, 61, 257-269	1.7	66
471	Flood basalts and metallogeny: The lithospheric mantle connection. *Earth-Science Reviews*, **2008**, 86, 145-174	10.2	66
470	Resetting of the U-Pb Zircon System in Cambro-Ordovician Intrusives of the Deep Freeze Range, Northern Victoria Land, Antarctica. *Journal of Petrology*, **2007**, 48, 327-364	3.9	66
469	Zircon inclusions in corundum megacrysts: I. Trace element geochemistry and clues to the origin of corundum megacrysts in alkali basalts. *Geochimica Et Cosmochimica Acta*, **1996**, 60, 2347-2363	5.5	66

468	Trace element geochemistry of ilmenite megacrysts from the Monastery kimberlite, South Africa. *Lithos*, **1992**, 29, 1-18	2.9	66
467	Origin and geological significance of Paleoproterozoic granites in the northeastern Cathaysia Block, South China. *Precambrian Research*, **2014**, 248, 72-95	3.9	65
466	Highly evolved Archean basement beneath the western Cathaysia Block, South China. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 242-255	5.5	65
465	Ophiolites of Iran: Keys to understanding the tectonic evolution of SW Asia: (I) Paleozoic ophiolites. *Journal of Asian Earth Sciences*, **2014**, 91, 19-38	2.8	64
464	Heterogeneous and metasomatized mantle recorded by trace elements in minerals of the Donghai garnet peridotites, Sulu UHP terrane, China. *Chemical Geology*, **2005**, 221, 243-259	4.2	64
463	Emplacement ages and sources of kimberlites and related rocks in southern Africa: U–Pb ages and Sr–Nd isotopes of groundmass perovskite. *Contributions To Mineralogy and Petrology*, **2014**, 168, 1	3.5	63
462	Fibrous diamonds from the placers of the northeastern Siberian Platform: carbonate and silicate crystallization media. *Russian Geology and Geophysics*, **2011**, 52, 1298-1309	1	63
461	Isotopic decoupling during porous melt flow: A case-study in the Lherz peridotite. *Earth and Planetary Science Letters*, **2009**, 279, 76-85	5.3	63
460	Dynamics of cratons in an evolving mantle. *Lithos*, **2008**, 102, 12-24	2.9	63
459	Genesis of Coronas in Anorthosites of the Upper Jotun Nappe, Indre Sogn, Norway. *Journal of Petrology*, **1971**, 12, 219-243	3.9	63
458	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
457	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
456	Continental collision and accretion recorded in the deep lithosphere of central China. *Earth and Planetary Science Letters*, **2008**, 269, 497-507	5.3	61
455	Thermal state and composition of the lithospheric mantle beneath the Daldyn kimberlite field, Yakutia. *Tectonophysics*, **1996**, 262, 19-33	3.1	61
454	Arc-related harzburgite–dunite–chromitite complexes in the mantle section of the Sabzevar ophiolite, Iran: A model for formation of podiform chromitites. *Gondwana Research*, **2015**, 27, 575-593	5.1	59
453	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
452	The isotopic composition of magnesium in mantle olivine: Records of depletion and metasomatism. *Chemical Geology*, **2006**, 226, 115-133	4.2	59
451	Neoproterozoic magmatic flare-up along the N. margin of Gondwana: The Taknar complex, NE Iran. *Earth and Planetary Science Letters*, **2017**, 474, 83-96	5.3	58

450	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
449	Trace-element zonation in garnets from The Thumb: heating and melt infiltration below the Colorado Plateau. *Contributions To Mineralogy and Petrology*, **1991**, 107, 60-79	3.5	58
448	The final stages of kimberlite petrogenesis: Petrography, mineral chemistry, melt inclusions and Sr-C-O isotope geochemistry of the Bultfontein kimberlite (Kimberley, South Africa). *Chemical Geology*, **2017**, 455, 342-356	4.2	57
447	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
446	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
445	Quantitative PIXE microanalysis of fluid inclusions based on a layered yield model. *Nuclear Instruments & Methods in Physics Research B*, **1991**, 54, 292-297	1.2	57
444	Type I eclogites from Roberts Victor kimberlites: Products of extensive mantle metasomatism. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 6927-6954	5.5	56
443	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
442	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
441	Hf isotopes of MARID (mica-amphibole-rutile-ilmenite-diopside) rutile trace metasomatic processes in the lithospheric mantle. *Geology*, **2005**, 33, 45	5	55
440	Trace-element partitioning between garnet and clinopyroxene in mantle-derived pyroxenites and eclogites: P-T-X controls. *Chemical Geology*, **1995**, 121, 105-130	4.2	55
439	High-Mg carbonatitic melts in diamonds, kimberlites and the sub-continental lithosphere. *Earth and Planetary Science Letters*, **2011**, 309, 337-347	5.3	54
438	Age and composition of granulite and pyroxenite xenoliths in Hannuoba basalts reflect Paleogene underplating beneath the North China Craton. *Chemical Geology*, **2009**, 264, 266-280	4.2	54
437	Ghosts of lithospheres past: Imaging an evolving lithospheric mantle in southern Africa. *Geology*, **2008**, 36, 515	5	54
436	Lu–Hf and U–Pb isotope systematics of zircons from the Storgangen intrusion, Rogaland Intrusive Complex, SW Norway: implications for the composition and evolution of Precambrian lower crust in the Baltic Shield. *Lithos*, **2004**, 73, 271-288	2.9	54
435	The flexural rigidity of Fennoscandia: reflection of the tectonothermal age of the lithospheric mantle. *Earth and Planetary Science Letters*, **1999**, 174, 139-154	5.3	54
434	Ultrapotassic rocks and xenoliths from South Tibet: Contrasting styles of interaction between lithospheric mantle and asthenosphere during continental collision. *Geology*, **2017**, 45, 51-54	5	53
433	Neoproterozoic palaeogeography in the North Atlantic Region: Inferences from the Akkajaure and Seve Nappes of the Scandinavian Caledonides. *Precambrian Research*, **2011**, 186, 127-146	3.9	53

432	Neoarchean (2.7–2.8 Ga) accretion beneath the North China Craton: U-Pb age, trace elements and Hf isotopes of zircons in diamondiferous kimberlites. *Lithos*, **2009**, 112, 188-202	2.9	53
431	The Puncoviscana Formation of northwest Argentina: U-Pb geochronology of detrital zircons and Rb-Sr metamorphic ages and their bearing on its stratigraphic age, sediment provenance and tectonic setting. *Neues Jahrbuch Fur Geologie Und Palaontologie - Abhandlungen*, **2008**, 247, 341-352	1.1	53
430	Subduction signature for quenched carbonatites from the deep lithosphere. *Geology*, **2002**, 30, 743	5	53
429	Genesis and tectonic implications of podiform chromitites in the metamorphosed ultramafic massif of Dobromirtsi (Bulgaria). *Gondwana Research*, **2015**, 27, 555-574	5.1	52
428	Tectonic affinity of the west Qinling terrane (central China): North China or Yangtze?. *Tectonics*, **2010**, 29, n/a-n/a	4.3	52
427	Geochronology and provenance of the Late Paleozoic accretionary wedge and Gympie Terrane, New England Orogen, eastern Australia*. *Australian Journal of Earth Sciences*, **2009**, 56, 655-685	1.4	52
426	Garnetite Xenoliths and Mantle–Water Interactions Below the Colorado Plateau, Southwestern United States. *Journal of Petrology*, **2005**, 46, 1901-1924	3.9	52
425	A primitive alkali basaltic stratovolcano and associated eruptive centres, Northwestern Spitsbergen: Volcanology and tectonic significance. *Journal of Volcanology and Geothermal Research*, **1989**, 37, 1-19	2.8	52
424	Detrital-zircon ages and geochemistry of sedimentary rocks in basement Mesozoic terranes and their cover rocks in New Caledonia, and provenances at the Eastern Gondwanaland margin*View all notes. *Australian Journal of Earth Sciences*, **2009**, 56, 1023-1047	1.4	51
423	The Kharamai kimberlite field, Siberia: modification of the lithospheric mantle by the Siberian Trap event. *Lithos*, **2005**, 81, 167-187	2.9	51
422	Plume-subduction interaction forms large auriferous provinces. *Nature Communications*, **2017**, 8, 843	17.4	50
421	Devonian to Permian evolution of the Paleo-Tethys Ocean: New evidence from U–Pb zircon dating and Sr–Nd–Pb isotopes of the Darrehanjir–Mashhad –ophiolites, NE Iran. *Gondwana Research*, **2015**, 28, 781-799	5.1	50
420	Early Paleozoic crustal anatexis in the intraplate Wuyi–Yunkai orogen, South China. *Lithos*, **2013**, 175-176, 124-145	2.9	50
419	Super-deep diamonds from kimberlites in the Juina area, Mato Grosso State, Brazil. *Lithos*, **2009**, 112, 833-842	2.9	50
418	Melt inclusions from the deep Slave lithosphere: implications for the origin and evolution of mantle-derived carbonatite and kimberlite. *Lithos*, **2004**, 76, 461-474	2.9	50
417	Genesis and evolution of the lithospheric mantle beneath the Buffalo Head Terrane, Alberta (Canada)?. *Lithos*, **2004**, 77, 413-451	2.9	50
416	U–Pb zircon ages of Late Cretaceous Nain–Dehshir ophiolites, central Iran. *Journal of the Geological Society*, **2013**, 170, 175-184	2.7	49
415	The enigma of crustal zircons in upper-mantle rocks: Clues from the Tumut ophiolite, southeast Australia. *Geology*, **2015**, 43, 119-122	5	49

414	Magmatic evolution of the ultramafic□mafic Kharaelakh intrusion (Siberian Craton, Russia): insights from trace-element, U□Pb and Hf-isotope data on zircon. *Contributions To Mineralogy and Petrology*, **2010**, 159, 753-768	3.5	49
413	Buoyant ancient continental mantle embedded in oceanic lithosphere (Sal Island, Cape Verde Archipelago). *Lithos*, **2010**, 120, 223-233	2.9	49
412	Thermal and compositional structure of the subcontinental lithospheric mantle: Derivation from shear wave seismic tomography. *Geochemistry, Geophysics, Geosystems*, **2006**, 7, n/a-n/a	3.6	49
411	The Evolution of the Upper Mantle beneath the Canary Islands: Information from Trace Elements and Sr isotope Ratios in Minerals in Mantle Xenoliths. *Journal of Petrology*, **2004**, 45, 2573-2612	3.9	49
410	The new CSIRO□GEMOC nuclear microprobe: First results, performance and recent applications. *Nuclear Instruments & Methods in Physics Research B*, **2001**, 181, 12-19	1.2	49
409	Lower-Crustal Granulites and Eclogites from Lesotho, Southern Africa **1979**, 59-86		49
408	Crustal evolution in the central Congo-Kasai Craton, Luebo, D.R. Congo: Insights from zircon U□Pb ages, Hf-isotope and trace-element data. *Precambrian Research*, **2009**, 170, 107-115	3.9	48
407	Single zircon LAM-ICPMS U-Pb dating of Guidong complex (SE China) and its petrogenetic significance. *Science Bulletin*, **2003**, 48, 1892-1899		48
406	Xenolith geotherms and crustal models in Eastern Australia. *Tectonophysics*, **1991**, 192, 359-366	3.1	48
405	Sabzevar Ophiolite, NE Iran: Progress from embryonic oceanic lithosphere into magmatic arc constrained by new isotopic and geochemical data. *Lithos*, **2014**, 210-211, 224-241	2.9	47
404	Moho vs crust□mantle boundary: Evolution of an idea. *Tectonophysics*, **2013**, 609, 535-546	3.1	47
403	Neoproterozoic tonalite and trondhjemite in the Huangling complex, South China: Crustal growth and reworking in a continental arc environment. *Numerische Mathematik*, **2013**, 313, 540-583	5.3	47
402	The mantle and crustal evolution of two garnet peridotite suites from the Western Gneiss Region, Norwegian Caledonides: An isotopic investigation. *Lithos*, **2010**, 117, 1-19	2.9	47
401	Comparison between LA-ICP-MS and EPMA analysis of trace elements in diamonds. *Chemical Geology*, **2008**, 252, 158-168	4.2	47
400	Taking the pulse of the Earth: linking crustal and mantle events. *Australian Journal of Earth Sciences* , **2008**, 55, 983-995	1.4	47
399	3-D multiobservable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle: III. Thermochemical tomography in the Western-Central U.S.. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 7337-7370	3.6	47
398	□On the eclogites of Norway□5 years later. *Mineralogical Magazine*, **1987**, 51, 333-343	1.7	46
397	Petrogenesis and tectonic implications of Late Carboniferous A-type granites and gabbronorites in NW Iran: Geochronological and geochemical constraints. *Lithos*, **2015**, 212-215, 266-279	2.9	45

396	Moissanite (SiC) from kimberlites: Polytypes, trace elements, inclusions and speculations on origin. *Lithos*, **2011**, 122, 152-164	2.9	45
395	Recurrent mesoproterozoic continental magmatism in South-Central Norway. *International Journal of Earth Sciences*, **2009**, 98, 1151-1171	2.2	45
394	Sulfides in mantle peridotites from Penghu Islands, Taiwan: Melt percolation, PGE fractionation, and the lithospheric evolution of the South China block. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 4531-4557	5.5	45
393	U-Pb dating of zircons from quartz diorite and its enclaves at Tongguanshan in Anhui and its petrogenetic implication. *Science Bulletin*, **2004**, 49, 2073		45
392	Coexisting Early Cretaceous High-Mg Andesites and Adakitic Rocks in the North China Craton: the Role of Water in Intraplate Magmatism and Cratonic Destruction. *Journal of Petrology*, **2016**, 57, 1279-1308	3.9	44
391	The calc-alkaline and adakitic volcanism of the Sabzevar structural zone (NE Iran): Implications for the Eocene magmatic flare-up in Central Iran. *Lithos*, **2016**, 248-251, 517-535	2.9	44
390	Early Paleozoic tectonic reconstruction of Iran: Tales from detrital zircon geochronology. *Lithos*, **2017**, 268-271, 87-101	2.9	44
389	Crustal Evolution of NW Iran: Cadomian Arcs, Archean Fragments and the Cenozoic Magmatic Flare-Up. *Journal of Petrology*, **2017**, 58, 2143-2190	3.9	44
388	U□b and Hf isotope data from zircons in the Macquarie Arc, Lachlan Orogen: Implications for arc evolution and Ordovician palaeogeography along part of the east Gondwana margin. *Gondwana Research*, **2011**, 19, 670-685	5.1	44
387	DIAMOND FROM THE GUANIAMO AREA, VENEZUELA. *Canadian Mineralogist*, **2000**, 38, 1347-1370	0.7	44
386	Convergent metamorphism of eclogites and dolerites, Kristiansund area, Norway. *Lithos*, **1973**, 6, 21-40	2.9	44
385	Multi-stage origin of Roberts Victor eclogites: Progressive metasomatism and its isotopic effects. *Lithos*, **2012**, 142-143, 161-181	2.9	43
384	□FTIR mapping: Distribution of impurities in different types of diamond growth. *Diamond and Related Materials*, **2012**, 29, 29-36	3.5	43
383	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. *Contributions To Mineralogy and Petrology*, **2011**, 161, 977-990	3.5	43
382	Cr-pyrope garnets in the lithospheric mantle 2. Compositional populations and their distribution in time and space. *Geochemistry, Geophysics, Geosystems*, **2002**, 3, 1-35	3.6	43
381	The nuclear microprobe as a tool in geology and mineral exploration. *Nuclear Instruments & Methods in Physics Research B*, **1993**, 77, 381-398	1.2	43
380	Zoning in eclogite garnets from Nordfjord, West Norway. *Contributions To Mineralogy and Petrology* , **1971**, 32, 112-125	3.5	43
379	First terrestrial occurrence of tistarite (Ti_2O_3): Ultra-low oxygen fugacity in the upper mantle beneath Mount Carmel, Israel. *Geology*, **2016**, 44, 815-818	5	42

378	Grenvillian orogeny in the Southern Cathaysia Block: Constraints from U-Pb ages and Lu-Hf isotopes in zircon from metamorphic basement. *Science Bulletin*, **2008**, 53, 3037-3050	10.6	42
377	Alkaline magmatism from Kutch, NW India: implications for plume□lithosphere interaction. *Lithos*, **2005**, 81, 101-119	2.9	42
376	Diamonds in ophiolites: Contamination or a new diamond growth environment?. *Earth and Planetary Science Letters*, **2015**, 430, 284-295	5.3	41
375	Sulfide and whole rock Re□Os systematics of eclogite and pyroxenite xenoliths from the Slave Craton, Canada. *Earth and Planetary Science Letters*, **2009**, 283, 48-58	5.3	41
374	Trace-element patterns of fibrous and monocrystalline diamonds: Insights into mantle fluids. *Lithos* , **2010**, 118, 313-337	2.9	41
373	Late Mesozoic-Eocene Mantle Replacement beneath the Eastern North China Craton: Evidence from the Paleozoic and Cenozoic Peridotite Xenoliths. *International Geology Review*, **2005**, 47, 457-472	2.3	41
372	Archean mantle fragments in Proterozoic crust, Western Gneiss Region, Norway. *Geology*, **2004**, 32, 609	5	41
371	Compositional evolution of high-temperature sheared lherzolite PHN 1611. *Geochimica Et Cosmochimica Acta*, **1993**, 57, 605-613	5.5	41
370	REE, Rb?Sr and Sm?Nd studies of Norwegian eclogites. *Chemical Geology: Isotope Geoscience Section* , **1985**, 52, 249-271		41
369	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. *Lithos*, **2013**, 175-176, 333-350	2.9	40
368	Lithosphere formation in the central Slave Craton (Canada): plume subcretion or lithosphere accretion?. *Contributions To Mineralogy and Petrology*, **2007**, 154, 409-427	3.5	40
367	Cu isotopes reveal initial Cu enrichment in sources of giant porphyry deposits in a collisional setting. *Geology*, **2019**, 47, 135-138	5	39
366	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. *Chemical Geology*, **2013**, 360-361, 41-53	4.2	39
365	Diamond-forming fluids in fibrous diamonds: The trace-element perspective. *Earth and Planetary Science Letters*, **2013**, 376, 110-125	5.3	39
364	Geothermal profile and crust-mantle transition beneath east-central Queensland: Volcanology, xenolith petrology and seismic data. *Journal of Volcanology and Geothermal Research*, **1987**, 31, 177-203	2.8	39
363	Isotopic composition of Mg and Fe in garnet peridotites from the Kaapvaal and Siberian cratons. *Geochimica Et Cosmochimica Acta*, **2017**, 200, 167-185	5.5	38
362	Sulfur isotope composition of metasomatised mantle xenoliths from the Bultfontein kimberlite (Kimberley, South Africa): Contribution from subducted sediments and the effect of sulfide alteration on S isotope systematics. *Earth and Planetary Science Letters*, **2016**, 445, 114-124	5.3	38
361	Ancient and juvenile components in the continental crust and mantle: Hf isotopes in zircon from Svecofennian magmatic rocks and rapakivi granites in Sweden. *Lithosphere*, **2011**, 3, 409-419	2.7	38

360	The crust-mantle boundary beneath cratons and craton margins: a transect across the south-west margin of the Kaapvaal craton. *Lithos*, **1995**, 36, 257-287	2.9	38
359	Dating lower crust and upper mantle events: an ion microprobe study of xenoliths from kimberlitic pipes, South Australia. *Lithos*, **1994**, 32, 77-94	2.9	38
358	Scandium speciation in a world-class lateritic deposit. *Geochemical Perspectives Letters*, **2017**, 105-114	3	38
357	Kimberlite genesis from a common carbonate-rich primary melt modified by lithospheric mantle assimilation. *Science Advances*, **2020**, 6, eaaz0424	14.3	37
356	A geotherm and lithospheric section for central Mongolia (Tariat region). *Geodynamic Series*, **1998**, 127-153		37
355	Lherzolite nodules from the Fen alkaline complex, Norway. *Contributions To Mineralogy and Petrology*, **1973**, 38, 135-146	3.5	37
354	Super-reducing conditions in ancient and modern volcanic systems: sources and behaviour of carbon-rich fluids in the lithospheric mantle. *Mineralogy and Petrology*, **2018**, 112, 101-114	1.6	36
353	Proterozoic mantle lithosphere beneath the extended margin of the South China block: In situ Re-Os evidence. *Geology*, **2003**, 31, 709	5	36
352	Trace elements in tourmalines from massive sulfides deposits and tourmalinites; geochemical controls and exploration applications. *Economic Geology*, **1996**, 91, 657-675	4.3	36
351	Garnet granulite and associated xenoliths in minette and serpentinite diatremes of the Colorado Plateau. *Geology*, **1979**, 7, 483	5	36
350	Os-isotope variability within sulfides from podiform chromitites. *Chemical Geology*, **2012**, 291, 224-235	4.2	35
349	Cretaceous thermo-chemical modification of the Kaapvaal cratonic lithosphere, South Africa. *Lithos*, **2009**, 112, 886-895	2.9	35
348	Crustal evolution in the Georgetown Inlier, North Queensland, Australia: a detrital zircon grain study. *Chemical Geology*, **2007**, 245, 198-218	4.2	35
347	Messengers from the deep: Fossil wadsleyite-chromite microstructures from the Mantle Transition Zone. *Scientific Reports*, **2015**, 5, 16484	4.9	34
346	Tracing the Caples Terrane through New Zealand using detrital zircon age patterns and radiogenic isotope signatures. *New Zealand Journal of Geology, and Geophysics*, **2009**, 52, 223-245	1.6	34
345	Ultramafic Xenoliths from Kutch, Northwest India: Plume-Related Mantle Samples?. *International Geology Review*, **2000**, 42, 416-444	2.3	34
344	Fragments of ancient lunar crust: Petrology and geochemistry of ferroan noritic anorthosites from the Descartes region of the Moon. *Geochimica Et Cosmochimica Acta*, **1995**, 59, 831-847	5.5	34
343	Parageneses of garnet in granulite-facies rocks, Lofoten-Vesteraalen, Norway. *Contributions To Mineralogy and Petrology*, **1969**, 23, 89-116	3.5	34

342	Chemical abrasion of zircon and ilmenite megacrysts in the Monastery kimberlite: Implications for the composition of kimberlite melts. *Chemical Geology*, **2014**, 383, 76-85	4.2	33
341	Petrology and geochemistry of peridotite xenoliths from the Lianshan region: Nature and evolution of lithospheric mantle beneath the lower Yangtze block. *Gondwana Research*, **2013**, 23, 161-175	5.1	33
340	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). *Contributions To Mineralogy and Petrology*, **2010**, 159, 315-330	3.5	33
339	Roles of Melting and Metasomatism in the Formation of the Lithospheric Mantle beneath the Leizhou Peninsula, South China. *Journal of Petrology*, **2006**, 47, 355-383	3.9	33
338	Granulite xenoliths and their zircons, Tuoyun, NW China: Insights into southwestern Tianshan lower crust. *Precambrian Research*, **2006**, 145, 159-181	3.9	33
337	The thermal state and composition of the lithospheric mantle beneath the Leizhou Peninsula, South China. *Journal of Volcanology and Geothermal Research*, **2003**, 122, 165-189	2.8	33
336	Sr isotopic heterogeneity in primitive basaltic rocks, southeastern Australia: correlation with mantle metasomatism. *Contributions To Mineralogy and Petrology*, **1984**, 87, 220-230	3.5	33
335	New data on lazurite. *Lithos*, **1976**, 9, 39-54	2.9	33
334	Formation of Eclogites and the Coronas in Anorthosites, Bergen Arcs, Norway. *Memoir of the Geological Society of America*, **1972**, 37-64		33
333	Primitive Arc Magmatism and Delamination: Petrology and Geochemistry of Pyroxenites from the Cabo Ortegal Complex, Spain. *Journal of Petrology*, **2016**, 57, 1921-1954	3.9	33
332	Pyroxenite Dykes in Orogenic Peridotite from North Qaidam (NE Tibet, China) Track Metasomatism and Segregation in the Mantle Wedge. *Journal of Petrology*, **2014**, 55, 2347-2376	3.9	32
331	The Kimberlites and related rocks of the Kuruman Kimberlite Province, Kaapvaal Craton, South Africa. *Contributions To Mineralogy and Petrology*, **2011**, 161, 351-371	3.5	32
330	Super-reduced mineral assemblages in "ophiolitic" chromitites and peridotites: the view from Mount Carmel. *European Journal of Mineralogy*, **2017**, 29, 557-570	2.2	31
329	Metamorphism disturbs the Re-Os signatures of platinum-group minerals in ophiolite chromitites. *Geology*, **2012**, 40, 659-662	5	31
328	The architecture of the European-Mediterranean lithosphere: A synthesis of the Re-Os evidence. *Geology*, **2013**, 41, 547-550	5	31
327	Zircon U-Pb and Hf isotopes of volcanic rocks from the Batamayineishan Formation in the eastern Junggar Basin. *Science Bulletin*, **2010**, 55, 4150-4161		31
326	Origin and evolution of topaz-bearing granites from the Nanling Range, South China: a geochemical and Sr-Nd-Hf isotopic study. *Mineralogy and Petrology*, **2007**, 90, 271-300	1.6	31
325	Petrogenesis of the Yangkou layered garnet-peridotite complex, Sulu UHP terrane, China. *American Mineralogist*, **2005**, 90, 801-813	2.9	31

324	A spectroscopic and carbon-isotope study of mixed-habit diamonds: Impurity characteristics and growth environment. *American Mineralogist*, **2013**, 98, 66-77	2.9	30
323	Evolution of the L□angshan garnet peridotites in the North Qaidam UHP belt, Northern Tibetan Plateau: Constraints from Re□Os isotopes. *Lithos*, **2010**, 117, 307-321	2.9	30
322	Morphology and geochemistry of zircons from late Mesozoic igneous complexes in coastal SE China: implications for petrogenesis. *Mineralogical Magazine*, **2002**, 66, 235-251	1.7	30
321	Abundances of K, Rb, Sr and Ba in some ultramafic rocks and minerals. *Earth and Planetary Science Letters*, **1968**, 4, 497-501	5.3	30
320	Whitlockite and apatite from lunar rock 14310 and from□deg□den, Norway. *Earth and Planetary Science Letters*, **1972**, 15, 53-58	5.3	30
319	High- and low-Cr chromitite and dunite in a Tibetan ophiolite: evolution from mature subduction system to incipient forearc in the Neo-Tethyan Ocean. *Contributions To Mineralogy and Petrology*, **2017**, 172, 1	3.5	29
318	Coupling, decoupling and metasomatism: Evolution of crust□mantle relationships beneath NW Spitsbergen. *Lithos*, **2012**, 149, 115-135	2.9	29
317	Heterogeneous sources of the Triassic granitoid plutons in the southern Qinling orogen: An E-W tectonic division in central China. *Tectonics*, **2013**, 32, 396-416	4.3	29
316	Mantle melts, metasomatism and diamond formation: Insights from melt inclusions in xenoliths from Diavik, Slave Craton. *Lithos*, **2009**, 112, 675-682	2.9	29
315	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. *Geochimica Et Cosmochimica Acta*, **2004**, 68, 3919-3942	5.5	29
314	Diamonds from Wellington, NSW: insights into the origin of eastern Australian diamonds. *Mineralogical Magazine*, **1999**, 63, 447-471	1.7	29
313	Zircon U□Pb ages and Hf□O isotopic composition of migmatites from the Zanjan□akab complex, NW Iran: Constraints on partial melting of metasediments. *Lithos*, **2016**, 240-243, 34-48	2.9	28
312	Platelet development in cuboid diamonds: insights from micro-FTIR mapping. *Contributions To Mineralogy and Petrology*, **2012**, 164, 1011-1025	3.5	28
311	Coexistence of the moderately refractory and fertile mantle beneath the eastern Central Asian Orogenic Belt. *Gondwana Research*, **2013**, 23, 176-189	5.1	28
310	The mid-Cretaceous transition from basement to cover within sedimentary rocks in eastern New Zealand: evidence from detrital zircon age patterns. *Geological Magazine*, **2013**, 150, 455-478	2	28
309	U□Pb and Hf-isotope analyses of zircon from the Kundelungu Kimberlites, D.R. Congo: Implications for crustal evolution. *Precambrian Research*, **2007**, 156, 195-225	3.9	28
308	Evolution of coronas in Norwegian anorthosites: re-evaluation based on crystal-chemistry and microstructures. *Contributions To Mineralogy and Petrology*, **1985**, 91, 330-339	3.5	28
307	The Fen Damkjernite: Petrology of a □entral-complex kimberlite□*Physics and Chemistry of the Earth*, **1975**, 9, 163-177		28

306	Deep earth recycling in the Hadean and constraints on surface tectonics. *Numerische Mathematik*, **2013**, 313, 912-932	5.3	27
305	MINERALOGY AND GEOCHEMISTRY OF PLATINUM-RICH CHROMITITES FROM THE MANTLE-CRUST TRANSITION ZONE AT OUEN ISLAND, NEW CALEDONIA OPHIOLITE. *Canadian Mineralogist*, **2011**, 49, 1549-1569	0.7	27
304	Archean lithospheric mantle beneath Arkansas: Continental growth by microcontinent accretion. *Bulletin of the Geological Society of America*, **2011**, 123, 1763-1775	3.9	27
303	In situ U□b Dating and Sr□d Isotopic Analysis of Perovskite: Constraints on the Age and Petrogenesis of the Kuruman Kimberlite Province, Kaapvaal Craton, South Africa. *Journal of Petrology*, **2012**, 53, 2497-2522	3.9	27
302	Crustal zircons and mantle sulfides: Archean to Triassic events in the lithosphere beneath south-eastern Sicily. *Lithos*, **2007**, 96, 503-523	2.9	27
301	Lapis lazuli from Baffin island □a precambrian meta-evaporite. *Lithos*, **1978**, 11, 37-60	2.9	27
300	The granulite to eclogite transition beneath the eastern margin of the Australian craton. *European Journal of Mineralogy*, **1991**, 3, 293-322	2.2	27
299	Recycling of ancient subduction-modified mantle domains in the Purang ophiolite (southwestern Tibet). *Lithos*, **2016**, 262, 11-26	2.9	27
298	Gold in the mantle: A global assessment of abundance and redistribution processes. *Lithos*, **2018**, 322, 376-391	2.9	27
297	High-pressure experiments provide insights into the Mantle Transition Zone history of chromitite in Tibetan ophiolites. *Earth and Planetary Science Letters*, **2017**, 463, 151-158	5.3	26
296	Detrital zircon ages in Buller and Takaka terranes, New Zealand: constraints on early Zealandia history. *New Zealand Journal of Geology, and Geophysics*, **2015**, 58, 176-201	1.6	26
295	Trace-element geochemistry and U□b dating of perovskite in kimberlites of the Lunda Norte province (NE Angola): Petrogenetic and tectonic implications. *Chemical Geology*, **2016**, 426, 118-134	4.2	26
294	From enriched to depleted mantle: Evidence from Cretaceous lamprophyres and Paleogene basaltic rocks in eastern and central Guangxi Province, western Cathaysia block of South China. *Lithos*, **2014**, 184-187, 300-313	2.9	26
293	Lithospheric mantle structure and the diamond potential of kimberlites in southern D.R. Congo. *Lithos*, **2009**, 112, 166-176	2.9	26
292	The Gurupi Belt, northern Brazil: Lithostratigraphy, geochronology, and geodynamic evolution. *Precambrian Research*, **2005**, 141, 83-105	3.9	26
291	Zircon U□b ages and Hf isotope of gneissic rocks from the Huai□n Complex: Implications for crustal accretion and tectonic evolution in the northern margin of the North China Craton. *Precambrian Research*, **2014**, 255, 335-354	3.9	25
290	Pressure- and stress-induced fabric transition in olivine from peridotites in the Western Gneiss Region (Norway): implications for mantle seismic anisotropy. *Journal of Metamorphic Geology*, **2013**, 31, 93-111	4.4	25
289	Microinclusions in monocrystalline octahedral diamonds and coated diamonds from Diavik, Slave Craton: Clues to diamond genesis. *Lithos*, **2009**, 112, 724-735	2.9	25

288	Trace-element geochemistry of diamondite: Crystallisation of diamond from kimberlite–carbonatite melts. *Lithos*, **2008**, 106, 39-54	2.9	25
287	Episodic refertilization and metasomatism of Archean mantle: evidence from an orogenic peridotite in North Qaidam (NE Tibet, China). *Contributions To Mineralogy and Petrology*, **2015**, 169, 1	3.5	24
286	How did the Dabie Orogen collapse? Insights from 3-D magnetotelluric imaging of profile data. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 5169-5185	3.6	24
285	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 (Ojén peridotite massif, southern Spain). *Lithos*, **2013**, 164-167, 74-85	2.9	24
284	The Belomorian eclogite province: Unique evidence of Meso-Neoarchaean subduction and collision. *Doklady Earth Sciences*, **2010**, 434, 1311-1316	0.6	24
283	Major transformations reveal Earth's deep secrets. *Geology*, **2008**, 36, 95	5	24
282	The lithospheric mantle beneath the southwestern Tianshan area, northwest China. *Contributions To Mineralogy and Petrology*, **2006**, 151, 457-479	3.5	24
281	Application of the proton microprobe in mineral exploration and processing. *Nuclear Instruments & Methods in Physics Research B*, **1989**, 40-41, 690-697	1.2	24
280	Recycled volatiles determine fertility of porphyry deposits in collisional settings. *American Mineralogist*, **2021**, 106, 656-661	2.9	24
279	East Antarctic sources of extensive Lower–Middle Ordovician turbidites in the Lachlan Orogen, southern Tasmanides, eastern Australia. *Australian Journal of Earth Sciences*, **2017**, 64, 143-224	1.4	23
278	Fluid-present deformation aids chemical modification of chromite: Insights from chromites from Golyamo Kamenyane, SE Bulgaria. *Lithos*, **2015**, 228-229, 78-89	2.9	23
277	Compositional effects on the solubility of minor and trace elements in oxide spinel minerals: insights from crystal-crystal partition coefficients in chromite exsolution. *American Mineralogist*, **2016**, 101, 1360-1372	2.9	23
276	Lithological and age structure of the lower crust beneath the northern edge of the North China Craton: Xenolith evidence. *Lithos*, **2015**, 216-217, 211-223	2.9	23
275	Laurentian Provenance of Archean Mantle Fragments in the Proterozoic Baltic Crust of the Norwegian Caledonides. *Journal of Petrology*, **2012**, 53, 1357-1383	3.9	23
274	Provenance comparisons between the Nambucca Block, Eastern Australia and the Torlesse Composite Terrane, New Zealand: connections and implications from detrital zircon age patterns. *Australian Journal of Earth Sciences*, **2013**, 60, 241-253	1.4	23
273	Two-layered oceanic lithospheric mantle in a Tibetan ophiolite produced by episodic subduction of Tethyan slabs. *Geochemistry, Geophysics, Geosystems*, **2017**, 18, 1189-1213	3.6	22
272	The recycling of chromitites in ophiolites from southwestern North America. *Lithos*, **2017**, 294-295, 53-72	2.9	22
271	Significance of ancient sulfide PGE and Re-Os signatures in the mantle beneath Calatrava, Central Spain. *Contributions To Mineralogy and Petrology*, **2014**, 168, 1	3.5	22

270	Statistical techniques for the classification of chromites in diamond exploration samples. *Journal of Geochemical Exploration*, **1997**, 59, 233-249	3.8	22
269	Hf isotope composition of zircons and implication for the petrogenesis of Yajiangqiao granite, Hunan Province, China. *Science Bulletin*, **2003**, 48, 995-998		22
268	Unusual mineral inclusions and carbon isotopes of alluvial diamonds from Bingara, eastern Australia. *Lithos*, **2003**, 69, 51-66	2.9	22
267	Zircon recycling and crystallization during formation of chromite- and Ni-arsenide ores in the subcontinental lithospheric mantle (Serranía de Ronda, Spain). *Ore Geology Reviews*, **2017**, 90, 193-209	3.2	21
266	Perspectives on Cretaceous Gondwana break-up from detrital zircon provenance of southern Zealandia sandstones. *Geological Magazine*, **2017**, 154, 661-682	2	21
265	Subduction, high-P metamorphism, and collision fingerprints in South Iran: Constraints from zircon U-Pb and mica Rb-Sr geochronology. *Geochemistry, Geophysics, Geosystems*, **2017**, 18, 306-332	3.6	21
264	Cr-rich rutile: A powerful tool for diamond exploration. *Lithos*, **2016**, 265, 304-311	2.9	21
263	Quantitative characterization of plastic deformation of single diamond crystals: A high pressure high temperature (HPHT) experimental deformation study combined with electron backscatter diffraction (EBSD). *Diamond and Related Materials*, **2012**, 30, 20-30	3.5	21
262	Detrital zircon geochronology and sandstone provenance of basement Waipapa Terrane (Triassic–Cretaceous) and Cretaceous cover rocks (Northland Allochthon and Houhora Complex) in northern North Island, New Zealand. *Geological Magazine*, **2013**, 150, 89-109	2	21
261	Kimberlitic sources of super-deep diamonds in the Juina area, Mato Grosso State, Brazil. *Lithos*, **2010**, 114, 16-29	2.9	21
260	The CSIRO-GEMOC Nuclear Microprobe: a high-performance system based on a new closely integrated design. *Nuclear Instruments & Methods in Physics Research B*, **1999**, 158, 18-23	1.2	21
259	Nitrogen aggregation in metamorphic diamonds from Kazakhstan. *Geochimica Et Cosmochimica Acta*, **1994**, 58, 5173-5177	5.5	21
258	Building cratonic keels in Precambrian plate tectonics. *Nature*, **2020**, 586, 395-401	50.4	21
257	Various growth environments of cloudy diamonds from the Malobotuobia kimberlite field (Siberian craton). *Lithos*, **2016**, 265, 96-107	2.9	21
256	Diamond formation during metasomatism of mantle eclogite by chloride-carbonate melt. *Contributions To Mineralogy and Petrology*, **2018**, 173, 1	3.5	21
255	Generation of continental adakitic rocks: Crystallization modeling with variable bulk partition coefficients. *Lithos*, **2017**, 272-273, 222-231	2.9	20
254	A terrestrial magmatic hibonite-grossite-vanadium assemblage: Desilication and extreme reduction in a volcanic plumbing system, Mount Carmel, Israel. *American Mineralogist*, **2019**, 104, 207-219	2.9	20
253	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). *Contributions To Mineralogy and Petrology*, **2015**, 169, 1	3.5	20

252	Recurrent magmatic activity on a lithosphere-scale structure: Crystallization and deformation in kimberlitic zircons. *Gondwana Research*, **2017**, 42, 126-132	5.1	20
251	Moho and petrologic crust-mantle boundary coincide under southeastern Australia: Comment and Reply. *Geology*, **1994**, 22, 666	5	20
250	The lower crust in eastern Australia: xenolith evidence. *Geological Society Special Publication*, **1986**, 24, 363-374	1.7	20
249	Thermal metamorphism of mantle chromites and the stability of noble-metal nanoparticles. *Contributions To Mineralogy and Petrology*, **2015**, 170, 1	3.5	19
248	Component variation in the late Neoproterozoic to Cambrian sedimentary rocks of SW China NE Vietnam, and its tectonic significance. *Precambrian Research*, **2018**, 308, 92-110	3.9	19
247	Cold plumes trigger contamination of oceanic mantle wedges with continental crust-derived sediments: Evidence from chromitite zircon grains of eastern Cuban ophiolites. *Geoscience Frontiers* , **2018**, 9, 1921-1936	6	19
246	Trace element partitioning in mixed-habit diamonds. *Chemical Geology*, **2013**, 355, 134-143	4.2	19
245	Sulfides and chalcophile elements in Roberts Victor eclogites: Unravelling a sulfide-rich metasomatic event. *Chemical Geology*, **2013**, 354, 73-92	4.2	19
244	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
243	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
242	Petrogenesis of eclogites enclosed in mantle-derived peridotites from the Sulu UHP terrane: constraints from trace elements in minerals and Hf isotopes in zircon. *Lithos*, **2009**, 109, 176-192	2.9	19
241	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
240	Distribution and characteristics of diamonds from Myanmar. *Journal of Asian Earth Sciences*, **2001**, 19, 563-577	2.8	19
239	Mantle-derived sapphirine. *Mineralogical Magazine*, **1986**, 50, 635-640	1.7	19
238	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
237	Tectonothermal evolution of the continental crust beneath the Yakutian diamondiferous province (Siberian craton): UPb and Hf isotopic evidence on zircons from crustal xenoliths of kimberlite pipes. *Precambrian Research*, **2016**, 282, 1-20	3.9	19
236	Neoproterozoic sedimentary rocks track the location of the Lhasa Block during the Rodinia breakup. *Precambrian Research*, **2019**, 320, 63-77	3.9	19
235	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

234	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
233	Multi-stage modification of Paleoarchean crust beneath the Anabar tectonic province (Siberian craton). *Precambrian Research*, **2018**, 305, 125-144	3.9	18
232	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
231	Unmasking xenolithic eclogites: Progressive metasomatism of a key Roberts Victor sample. *Chemical Geology*, **2014**, 364, 56-65	4.2	18
230	Complex Precambrian crustal evolution beneath the northeastern Yangtze Craton reflected by zircons from Mesozoic volcanic rocks of the Fanchang basin, Anhui Province. *Precambrian Research*, **2012**, 220-221, 91-106	3.9	18
229	Autochthonous inheritance of zircon through Cretaceous partial melting of Carboniferous plutons: the Arthur River Complex, Fiordland, New Zealand. *Contributions To Mineralogy and Petrology*, **2011** , 161, 401-421	3.5	18
228	Mineral chemistry and zircon geochronology of xenocrysts and altered mantle and crustal xenoliths from the Aries micaceous kimberlite: Constraints on the composition and age of the central Kimberley Craton, Western Australia. *Lithos*, **2007**, 93, 175-198	2.9	18
227	The proton microprobe: a revolution in mineral analysis. *Nuclear Instruments & Methods in Physics Research B*, **1991**, 54, 284-291	1.2	18
226	Metamorphic feldspathization of metavolcanics and granitoids, Avnik area, Turkey. *Contributions To Mineralogy and Petrology*, **1983**, 83, 309-319	3.5	18
225	Replacement antiperthites in gneisses of the Babbitt-Embarrass area, Minnesota, U. S. A.. *Lithos*, **1969**, 2, 171-186	2.9	18
224	Sulfide metasomatism and the mobility of gold in the lithospheric mantle. *Chemical Geology*, **2015**, 410, 149-161	4.2	17
223	Identification of Eocene-Oligocene magmatic pulses associated with flare-up in east Iran: Timing and sources. *Gondwana Research*, **2018**, 57, 141-156	5.1	17
222	Different styles of modern and ancient non-collisional orogens and implications for crustal growth: a Gondwanaland perspective. *Canadian Journal of Earth Sciences*, **2016**, 53, 1372-1415	1.5	17
221	Synthesis of inverse ringwoodite sheds light on the subduction history of Tibetan ophiolites. *Scientific Reports*, **2018**, 8, 5457	4.9	17
220	Subduction-related middle Permian to early Triassic magmatism in central Hainan Island, South China. *Lithos*, **2018**, 318-319, 158-175	2.9	17
219	Hf Nd isotope constraints on the origin of Dehshir Ophiolite, Central Iran. *Island Arc*, **2012**, 21, 202-214	2	17
218	Evolution of Phanerozoic Eastern Australian Lithosphere: Isotopic Evidence for Magmatic and Tectonic Underplating. *Journal of Petrology*, **1988**, Special_Volume, 89-108	3.9	17
217	Trace element composition of anorthosite plagioclase. *Earth and Planetary Science Letters*, **1974**, 24, 213-223	5.3	17

216	KRb fractionation by plagioclase feldspars. *Chemical Geology*, **1970**, 6, 265-271	4.2	17
215	Cenozoic lithospheric architecture and metallogenesis in Southeastern Tibet. *Earth-Science Reviews*, **2021**, 214, 103472	10.2	17
214	Carmeltazite, ZrAl2Ti4O11, a New Mineral Trapped in Corundum from Volcanic Rocks of Mt Carmel, Northern Israel. *Minerals (Basel, Switzerland)*, **2018**, 8, 601	2.4	17
213	Microscale effects of melt infiltration into the lithospheric mantle: Peridotite xenoliths from Xilong, South China. *Lithos*, **2015**, 232, 111-123	2.9	16
212	The Paleoproterozoic Vishnu basin in southwestern Laurentia: Implications for supercontinent reconstructions, crustal growth, and the origin of the Mojave crustal province. *Precambrian Research*, **2018**, 308, 1-17	3.9	16
211	Microcontinents among the accretionary complexes of the Central Asia Orogenic Belt: In situ Re-Os evidence. *Journal of Asian Earth Sciences*, **2013**, 62, 37-50	2.8	16
210	Multiple Metasomatism beneath the N[illegible] Volcanic Field (Northern Pannonian Basin) Revealed by Upper Mantle Peridotite Xenoliths. *Journal of Petrology*, **2017**, 58, 1107-1144	3.9	16
209	Mid-Cretaceous lamproite from the Kutch region, Gujarat, India: Genesis and tectonic implications. *Gondwana Research*, **2014**, 26, 942-956	5.1	16
208	Tectonic affinities of the Houghton Inlier, South Australia: U-Pb and Hf-isotope data from zircons in modern stream sediments. *Australian Journal of Earth Sciences*, **2006**, 53, 971-989	1.4	16
207	Deformation of mantle pyroxenites provides clues to geodynamic processes in subduction zones: Case study of the Cabo Ortegal Complex, Spain. *Earth and Planetary Science Letters*, **2017**, 472, 174-185	5.3	15
206	Across-arc geochemical variations in the Paleogene magmatic belt of Iran. *Lithos*, **2019**, 344-345, 280-296	2.9	15
205	Langshan basalts record recycled Paleo-Asian oceanic materials beneath the northwest North China Craton. *Chemical Geology*, **2019**, 524, 88-103	4.2	15
204	An imbricate midcrustal suture zone: The Mojave-Yavapai Province boundary in Grand Canyon, Arizona. *Bulletin of the Geological Society of America*, **2015**, 127, 1391-1410	3.9	15
203	Hafnium-neodymium constraints on source heterogeneity of the economic ultramafic-mafic Noril'sk-1 intrusion (Russia). *Lithos*, **2013**, 164-167, 36-46	2.9	15
202	Thallium isotopes as a potential tracer for the origin of cratonic eclogites. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 7387-7398	5.5	15
201	Recognition of the Kaweka Terrane in northern South Island, New Zealand: preliminary evidence from Rb-Sr metamorphic and U-Pb detrital zircon ages. *New Zealand Journal of Geology, and Geophysics*, **2011**, 54, 291-309	1.6	15
200	Combined U-Pb dating and Sm-Nd studies on lower crustal and mantle xenoliths from the Delegate basaltic pipes, southeastern Australia. *Contributions To Mineralogy and Petrology*, **1998**, 130, 154-161	3.5	15
199	Chapter 8.2 The Earliest Subcontinental Lithospheric Mantle. *Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana*, **2007**, 15, 1013-1035		15

198	Isotopic microanalysis of seawater strontium in biogenic calcite to assess subsequent rehomogenisation during metamorphism. *Chemical Geology*, **2005**, 220, 67-82	4.2	15
197	Multiple Origins of Alluvial Diamonds from New South Wales, Australia. *Economic Geology*, **2002**, 97, 109-123	4.3	15
196	Fluid inclusion studies of the Drammen Granite, Oslo Paleorift, Norway. *Contributions To Mineralogy and Petrology*, **1984**, 87, 1-14	3.5	15
195	GZ7 and GZ8 - Two Zircon Reference Materials for SIMS U-Pb Geochronology. *Geostandards and Geoanalytical Research*, **2018**, 42, 431-457	3.6	15
194	Use and misuse of Mg- and Mn-rich ilmenite in diamond exploration: A petrographic and trace element approach. *Lithos*, **2017**, 292-293, 348-363	2.9	14
193	Inclusions of crichtonite-group minerals in Cr-pyropes from the Internatsionalnaya kimberlite pipe, Siberian Craton: Crystal chemistry, parageneses and relationships to mantle metasomatism. *Lithos*, **2018**, 308-309, 181-195	2.9	14
192	Magnesium and oxygen isotopes in Roberts Victor eclogites. *Chemical Geology*, **2016**, 438, 73-83	4.2	14
191	High-Mg adakitic rocks and their complementary cumulates formed by crystal fractionation of hydrous mafic magmas in a continental crustal magma chamber. *Lithos*, **2016**, 260, 211-224	2.9	14
190	Tracing ancient events in the lithospheric mantle: A case study from ophiolitic chromitites of SW Turkey. *Journal of Asian Earth Sciences*, **2016**, 119, 1-19	2.8	14
189	Characterisation of primary and secondary carbonates in hypabyssal kimberlites: an integrated compositional and Sr-isotopic approach. *Mineralogy and Petrology*, **2018**, 112, 555-567	1.6	14
188	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. *Precambrian Research*, **2018**, 316, 174-196	3.9	14
187	Laurite and zircon from the Finero chromitites (Italy): New insights into evolution of the subcontinental mantle. *Ore Geology Reviews*, **2017**, 90, 210-225	3.2	14
186	Rates of Magma Ascent: Constraints from Mantle-Derived Xenoliths **2010**, 116-124		14
185	Characterization of the metasomatic agent in mantle xenoliths from Devès, Massif Central (France) using coupled in situ trace-element and O, Sr and Nd isotopic compositions. *Geological Society Special Publication*, **2008**, 293, 177-196	1.7	14
184	Nuclear microprobe analysis of melt inclusions in minerals: Windows on metasomatic processes in the earth's mantle. *Nuclear Instruments & Methods in Physics Research B*, **2001**, 181, 578-585	1.2	14
183	Sulfide in dunite channels reflects long-distance reactive migration of mid-ocean-ridge melts from mantle source to crust: A Re-Os isotopic perspective. *Earth and Planetary Science Letters*, **2020**, 531, 115969	5.3	14
182	Extremely low structural hydroxyl contents in upper mantle xenoliths from the Nógrád-Gömör Volcanic Field (northern Pannonian Basin): Geodynamic implications and the role of post-eruptive re-equilibration. *Chemical Geology*, **2019**, 507, 23-41	4.2	14
181	Mantle-like oxygen isotopes in kimberlites determined by in situ SIMS analyses of zoned olivine. *Geochimica Et Cosmochimica Acta*, **2019**, 266, 274-291	5.5	13

180	Extreme reduction: Mantle-derived oxide xenoliths from a hydrogen-rich environment. *Lithos*, **2020**, 358-359, 105404	2.9	13
179	Permian to quaternary magmatism beneath the Mt Carmel area, Israel: Zircons from volcanic rocks and associated alluvial deposits. *Lithos*, **2018**, 314-315, 307-322	2.9	13
178	Sources of the Nanwenhe - Song Chay granitic complex (SW China - NE Vietnam) and its tectonic significance. *Lithos*, **2017**, 290-291, 76-93	2.9	13
177	The Salma Eclogites of the Belomorian Province, Russia **2011**, 623-670		13
176	An experimental calibration of the nickel in garnet geothermometer with applications, by D. Canil: discussion. *Contributions To Mineralogy and Petrology*, **1996**, 124, 216-218	3.5	13
175	Gold in the mantle: The role of pyroxenites. *Lithos*, **2016**, 244, 205-217	2.9	12
174	Complex evolution of the lower crust beneath the southeastern North China Craton: the Junan xenoliths and xenocrysts. *Lithos*, **2014**, 206-207, 113-126	2.9	12
173	An Australian provenance for the eastern Otago Schist protolith, South Island, New Zealand: evidence from detrital zircon age patterns and implications for the origin of its gold. *Australian Journal of Earth Sciences*, **2017**, 64, 703-721	1.4	12
172	Electrical structures in the northwest margin of the Junggar basin: Implications for its late Paleozoic geodynamics. *Tectonophysics*, **2017**, 717, 473-483	3.1	12
171	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. *Lithos*, **2011**, 122, 201-213	2.9	12
170	Lithospheric domains and controls on kimberlite emplacement, Slave Province, Canada: Evidence from elastic thickness and upper mantle composition. *Geochemistry, Geophysics, Geosystems*, **2005**, 6, n/a-n/a	3.6	12
169	Unusual Hf contents in metamorphic zircon from coesite-bearing eclogites of the Dabie Mountains, east-central China: implications for the dating of ultrahigh-pressure metamorphism. *Journal of Metamorphic Geology*, **2004**, 22, 629-637	4.4	12
168	Trace element geochemistry of metabasalts from the Karmøy ophiolite, southwest Norwegian Caledonides. *Earth and Planetary Science Letters*, **1980**, 50, 75-91	5.3	12
167	Geochemistry and Origin of Sulphide Minerals in Mantle Xenoliths: Qilin, Southeastern China		12
166	Nitrogen nanoinclusions in milky diamonds from Juina area, Mato Grosso State, Brazil. *Lithos*, **2016**, 265, 57-67	2.9	12
165	Spongy texture in mantle clinopyroxene recordsdecompression-induced melting. *Lithos*, **2018**, 320-321, 144-154	2.9	12
164	Re-Os isotopic constraints on the evolution of the Bangong-Nujiang Tethyan oceanic mantle, Central Tibet. *Lithos*, **2015**, 224-225, 32-45	2.9	11
163	Late Paleocene adakitic granitoid from NW Iran and comparison with adakites in the NE Turkey: Adakitic melt generation in normal continental crust. *Lithos*, **2019**, 346-347, 105151	2.9	11

162	Sources of cratonic metasomatic fluids: In situ LA-MC-ICPMS analysis of Sr, Nd, Hf and Pb isotopes in Lima from the Jagersfontein Kimberlite. *Numerische Mathematik*, **2014**, 314, 435-461	5.3	11
161	Precambrian tectonic attribution and evolution of the Songliao terrane revealed by zircon xenocrysts from Cenozoic alkali basalts, Xilinhot region, NE China. *Precambrian Research*, **2014**, 251, 33-48	3.9	11
160	Extreme lithium isotopic fractionation in three zircon standards (Plešovice, Qinghu and Temora). *Scientific Reports*, **2015**, 5, 16878	4.9	11
159	Nitrogen isotope systematics and origins of mixed-habit diamonds. *Geochimica Et Cosmochimica Acta*, **2015**, 157, 1-12	5.5	11
158	Water contents of Roberts Victor xenolithic eclogites: primary and metasomatic controls. *Contributions To Mineralogy and Petrology*, **2014**, 168, 1	3.5	11
157	Archean mantle contributes to the genesis of chromitite in the Palaeozoic Sartohay ophiolite, Asiatic Orogenic Belt, northwestern China. *Precambrian Research*, **2012**, 216-219, 87-94	3.9	11
156	Intrusion and contamination of high-temperature dunitic magma: the Nordre Bumandsfjord pluton, Seiland, Arctic Norway. *Contributions To Mineralogy and Petrology*, **2013**, 165, 903-930	3.5	11
155	Co-rich sulfides in mantle peridotites from Penghu Islands, Taiwan: Footprints of Proterozoic mantle plumes under the Cathaysia Block. *Journal of Asian Earth Sciences*, **2010**, 37, 229-245	2.8	11
154	Petrology and Sr□Nd□Hf isotope geochemistry of gabbro xenoliths from the Hyblean Plateau: a MARID reservoir beneath SE Sicily?. *Contributions To Mineralogy and Petrology*, **2009**, 157, 1-22	3.5	11
153	Upper mantle structure beneath eastern Siberia: Evidence from gravity modeling and mantle petrology. *Geochemistry, Geophysics, Geosystems*, **2003**, 4,	3.6	11
152	Calculation of equilibration conditions for garnet granulite and garnet websterite nodules in African kimberlite pipes. *TMPM Tschermaks Mineralogische Und Petrographische Mitteilungen*, **1981**, 28, 229-244		11
151	Similar crust beneath disrupted and intact cratons: Arguments against lower-crust delamination as a decratonization trigger. *Tectonophysics*, **2019**, 750, 1-8	3.1	11
150	Tracking Deep Lithospheric Events with Garnet-Websterite Xenoliths from Southeastern Australia. *Journal of Petrology*, **2018**, 59, 901-930	3.9	11
149	Pre-Mesozoic Crimea as a continuation of the Dobrogea platform: insights from detrital zircons in Upper Jurassic conglomerates, Mountainous Crimea. *International Journal of Earth Sciences*, **2019**, 108, 2407-2428	2.2	10
148	Lateral and Vertical Heterogeneity in the Lithospheric Mantle at the Northern Margin of the Pannonian Basin Reconstructed From Peridotite Xenolith Microstructures. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 6315-6336	3.6	10
147	Discovery of the first natural hydride. *American Mineralogist*, **2019**, 104, 611-614	2.9	10
146	Ancient mantle lithosphere beneath the Khanka massif in the Russian Far East: in´situ Re□Os evidence. *Terra Nova*, **2015**, 27, 277-284	3	10
145	Widespread Paleoproterozoic basement in the eastern Cathaysia Block: Evidence from metasedimentary rocks of the Pingtan□Dongshan metamorphic belt, in southeastern China. *Precambrian Research*, **2016**, 285, 91-108	3.9	10

144	Post-entrainment mineral-magma interaction in mantle xenoliths from inner Mongolia, western North China craton. *Journal of Earth Science (Wuhan, China)*, **2012**, 23, 54-76	2.2	10
143	In situ Re-Os isotope ages of sulfides in Hannuoba peridotitic xenoliths: Significance for the frequently-occurring mantle events beneath the North China Block. *Science Bulletin*, **2007**, 52, 2847-2853		10
142	Rb-Sr geochronology of the Bitlis Massif, Avnik (Bingl) area, S.E. Turkey. *Geological Society Special Publication*, **1984**, 17, 403-413	1.7	10
141	Mineral reactions at a peridotite-gneiss contact, Jotunheimen, Norway. *Mineralogical Magazine*, **1971**, 38, 435-445	1.7	10
140	Crustal structure of the Newer Volcanics Province, SE Australia, from ambient noise tomography. *Tectonophysics*, **2016**, 683, 382-392	3.1	10
139	Tectonic Switching of Southeast China in the Late Paleozoic. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 8508-8526	3.6	10
138	Dellagiustaite: A Novel Natural Spinel Containing V2+. *Minerals (Basel, Switzerland)*, **2019**, 9, 4	2.4	9
137	Pink color in Type I diamonds: Is deformation twinning the cause?. *American Mineralogist*, **2015**, 100, 1518-1527	2.9	9
136	Nature and evolution of the lithospheric mantle beneath the eastern Central Asian Orogenic Belt: Constraints from peridotite xenoliths in the central part of the Great Xing'an Range, NE China. *Lithos*, **2015**, 238, 52-63	2.9	9
135	Lithospheric memory of subduction in mantle pyroxenite xenoliths from rift-related basalts. *Earth and Planetary Science Letters*, **2020**, 544, 116365	5.3	9
134	Three types of element fluxes from metabasite into peridotite in analogue experiments: Insights into subduction-zone processes. *Lithos*, **2018**, 302-303, 203-223	2.9	9
133	Geochronology and geochemistry of deep-seated crustal xenoliths in the northern North China Craton: Implications for the evolution and structure of the lower crust. *Lithos*, **2017**, 292-293, 1-14	2.9	9
132	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. *Doklady Earth Sciences*, **2009**, 426, 567-573	0.6	9
131	The boundary phase and the melting of CaSiO 3 and MgSiO 3 perovskites. *Journal of Physics and Chemistry of Solids*, **2000**, 61, 1815-1820	3.9	9
130	IBA in minerals research: Progress and prospects. *Nuclear Instruments & Methods in Physics Research B*, **1990**, 45, 604-609	1.2	9
129	Heterogeneity in the thermal state of the lower crust and upper mantle beneath eastern Australia. *Exploration Geophysics*, **1991**, 22, 295-298	1	9
128	A reappraisal of the metamorphic history of the Tehuitzingo chromitite, Puebla state, Mexico. *International Geology Review*, **2019**, 61, 1706-1727	2.3	9
127	Prolonged magmatism and growth of the Iran-Anatolia Cadomian continental arc segment in Northern Gondwana. *Lithos*, **2021**, 384-385, 105940	2.9	9

126	Titanates of the lindsleyite–hathiasite (LIMA) group reveal isotope disequilibrium associated with metasomatism in the mantle beneath Kimberley (South Africa). *Earth and Planetary Science Letters*, **2018**, 482, 253-264	5.3	9
125	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, 340–341, p.181–190). *Lithos*, **2019**, 348-349, 105122	2.9	8
124	Parageneses of TiB2 in corundum xenoliths from Mt. Carmel, Israel: Siderophile behavior of boron under reducing conditions. *American Mineralogist*, **2020**, 105, 1609-1621	2.9	8
123	Reconstructing the Source and Growth of the Makran Accretionary Complex: Constraints From Detrital Zircon U-Pb Geochronology. *Tectonics*, **2020**, 39, e2019TC005963	4.3	8
122	Insights into the mantle geochemistry of scandium from a meta-analysis of garnet data. *Lithos*, **2018**, 310-311, 409-421	2.9	8
121	Magnetic mineralogy of pyroxenite xenoliths from Hannuoba basalts, northern North China Craton: Implications for magnetism in the continental lower crust. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 806-821	3.6	8
120	Rodinian detrital zircons in Late Cretaceous sandstones indicate a possible Precambrian basement under southern Zealandia. *Precambrian Research*, **2012**, 212-213, 13-20	3.9	8
119	Mapping the Earth's mantle in 4D using the proton microprobe. *Nuclear Instruments & Methods in Physics Research B*, **1995**, 104, 456-463	1.2	8
118	A cobalt-rich spinel inclusion in a sapphire from Bo Ploi, Thailand. *Mineralogical Magazine*, **1994**, 58, 247-258	1.7	8
117	Application of the proton microprobe to diamond exploration and genesis. *Nuclear Instruments & Methods in Physics Research B*, **1990**, 49, 318-322	1.2	8
116	Fluid inclusion studies of the Drammen Granite, Oslo Paleorift, Norway. *Contributions To Mineralogy and Petrology*, **1984**, 87, 15-23	3.5	8
115	Eclogites in peridotite massifs in the Western Gneiss Region, Scandinavian Caledonides: Petrogenesis and comparison with those in the Variscan Moldanubian Zone. *Lithos*, **2018**, 322, 325-346	2.9	8
114	New constraints on the source, composition, and post-emplacement modification of kimberlites from in situ CO–Sr-isotope analyses of carbonates from the Benfontein sills (South Africa). *Contributions To Mineralogy and Petrology*, **2020**, 175, 1	3.5	7
113	Hadean continental crust in the southern North China Craton: Evidence from the Xinyang felsic granulite xenoliths. *Precambrian Research*, **2018**, 307, 155-174	3.9	7
112	New Insights on the Origin of Ultramafic-Mafic Intrusions and Associated Ni-Cu-PGE Sulfide Deposits of the Norilsk and Taimyr Provinces, Russia: Evidence From Radiogenic- and Stable-Isotope Data **2018**, 197-238		7
111	Detrital pyrope garnets from the El Kseibat area, Algeria: A glimpse into the lithospheric mantle beneath the north-eastern edge of the West African Craton. *Journal of African Earth Sciences*, **2012**, 63, 1-11	2.2	7
110	Carboniferous and Permian granites of the northern Tasman orogenic belt, Queensland, Australia: insights into petrogenesis and crustal evolution from an in situ zircon study. *International Journal of Earth Sciences*, **2013**, 102, 647-669	2.2	7
109	Magnetically stratified continental lower crust preserved in the North China Craton. *Tectonophysics*, **2015**, 643, 73-79	3.1	7

108	Lithospheric mantle evolution beneath northeast Australia. *Lithos*, **2011**, 125, 405-422	2.9	7
107	Detrital zircon U-Pb age and Hf-isotope perspective on sediment provenance and tectonic models in SE Asia **2012**,		7
106	Applications of Olivine--Orthopyroxene--Spinel Oxygen Geobarometers to the Redox State of the Upper Mantle. *Journal of Petrology*, **1991**, Special_Volume, 291-306	3.9	7
105	K/Rb in amphiboles and amphibolites from Northeastern Minnesota. *Earth and Planetary Science Letters*, **1967**, 3, 367-370	5.3	7
104	Single zircon LAM-ICPMS U-Pb dating of Guidong complex (SE China) and its petrogenetic significance. *Science Bulletin*, **2003**, 48, 1892		7
103	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. *Geochemical Perspectives Letters*,1-2	3	7
102	Reworking of old continental lithosphere: Unradiogenic Os and decoupled Hf Nd isotopes in sub-arc mantle pyroxenites. *Lithos*, **2020**, 354-355, 105346	2.9	7
101	Geochronology and geochemistry of exotic blocks of Cadomian crust from the salt diapirs of SE Zagros: the Chah-Banu example. *International Geology Review*, **2020**, 1-22	2.3	7
100	Early Paleozoic magmatism in northern Kontum Massif, Central Vietnam: Insights into tectonic evolution of the eastern Indochina Block. *Lithos*, **2020**, 376-377, 105750	2.9	7
99	Early Mesozoic deep-crust reworking beneath the central Lhasa terrane (South Tibet): Evidence from intermediate gneiss xenoliths in granites. *Lithos*, **2017**, 274-275, 225-239	2.9	6
98	Cadomian Magmatic Rocks from Zarand (SE Iran) Formed in a Retro-Arc Basin. *Lithos*, **2020**, 366-367, 105569	2.9	6
97	Formation of atoll garnets in the UHP eclogites of the Tso Morari Complex, Ladakh, Himalaya. *Journal of Earth System Science*, **2017**, 126, 1	1.8	6
96	Re–Os isotopic constraints on the source of platinum-group minerals (PGMs) from the Vestěv pyrope-rich garnet placer deposit, Bohemian Massif. *Ore Geology Reviews*, **2015**, 68, 117-126	3.2	6
95	Immiscible metallic melts in the deep Earth: clues from moissanite (SiC) in volcanic rocks. *Science Bulletin*, **2020**, 65, 1479-1488	10.6	6
94	Metasomatic control of hydrogen contents in the layered cratonic mantle lithosphere sampled by Lac de Gras xenoliths in the central Slave craton, Canada. *Geochimica Et Cosmochimica Acta*, **2020**, 286, 29-53	5.5	6
93	Siderophile and chalcophile elements in spinels, sulphides and native Ni in strongly metasomatised xenoliths from the Bultfontein kimberlite (South Africa). *Lithos*, **2021**, 380-381, 105880	2.9	6
92	Deposits associated with ultramafic–mafic complexes in Mexico: the Loma Baya case. *Ore Geology Reviews*, **2017**, 81, 1053-1065	3.2	5
91	The Paleogene ophiolite conundrum of the Iran–Iraq border region. *Journal of the Geological Society*, **2020**, 177, 955-964	2.7	5

90	Oceanization of the subcontinental lithospheric mantle recorded in the Yunzhug ophiolite, Central Tibetan Plateau. *Lithos*, **2020**, 370-371, 105612	2.9	5
89	Hidden Eoarchean crust in the southwestern Central Asian Orogenic Belt. *Lithos*, **2020**, 360-361, 105437	2.9	5
88	Global- to Deposit-Scale Controls on Orthomagmatic Ni-Cu(-PGE) and PGE Reef Ore Formation **2018**, 1-46		5
87	Carbon isotopes of eclogite-hosted diamonds from the Nyurbinskaya kimberlite pipe, Yakutia: The metasomatic origin of diamonds. *Chemical Geology*, **2017**, 455, 131-147	4.2	5
86	Deformation microstructures reveal a complex mantle history for polycrystalline diamond. *Geochemistry, Geophysics, Geosystems*, **2012**, 13, n/a-n/a	3.6	5
85	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. *Mineralogy and Petrology*, **2009**, 95, 17-45	1.6	5
84	Petrology, mineral chemistry, and exploration significance of Fe-sulfides from the metal dispersion halo surrounding the Cadjebut ZnPb MVT deposit, Western Australia. *Applied Geochemistry*, **1997**, 12, 37-54	3.5	5
83	DIAMOND FROM THE LOS COQUITOS AREA, BOLIVAR STATE, VENEZUELA. *Canadian Mineralogist*, **2006**, 44, 323-340	0.7	5
82	Variations of the Effective Elastic Thickness (Te) and Structure of the Lithosphere Beneath the Slave Province, Canada. *Exploration Geophysics*, **2005**, 36, 266-271	1	5
81	Hf isotope composition of zircons and implication for the petrogenesis of Yajiangqiao granite, Hunan Province, China. *Science Bulletin*, **2003**, 48, 995		5
80	Kishonite, VH2, and Oreillyite, Cr2N, Two New Minerals from the Corundum Xenocrysts of Mt Carmel, Northern Israel. *Minerals (Basel, Switzerland)*, **2020**, 10, 1118	2.4	5
79	Granulite facies xenoliths from the Yuhuashan complex, central Jiangxi, South China: constraints on Late Palaeozoic orogeny and middle-lower crust components. *Journal of Metamorphic Geology*, **2016**, 34, 45-61	4.4	5
78	Melt Migration and Interaction in a Dunite Channel System within Oceanic Forearc Mantle: the Yushigou HarzburgiteDunite Associations, North Qilian Ophiolite (NW China). *Journal of Petrology*, **2021**, 62,	3.9	5
77	Phanerozoic magma underplating and crustal growth beneath the North China Craton. *Terra Nova*, **2017**, 29, 211-217	3	4
76	Chapter 14 Crossing Cook Strait: terranes of the Marlborough Schist, Kapiti Island and Wellington. *Geological Society Memoir*, **2019**, 49, 323-330	0.4	4
75	Carbonate-silicate composition of diamond-forming media of fibrous diamonds from the Snap Lake area (Canada). *Doklady Earth Sciences*, **2015**, 461, 297-300	0.6	4
74	Oxygen-Hafnium-Neodymium Isotope Constraints on the Origin of the Talnakh Ultramafic-Mafic Intrusion (Norilsk Province, Russia). *Economic Geology*, **2020**, 115, 1195-1212	4.3	4
73	Constraints from zircon Hf-O-Li isotopic compositions on the genesis of slightly low-□18O alkaline granites in the Taohuadao area, Zhejiang Province, SE China. *Journal of Asian Earth Sciences*, **2018**, 167, 197-208	2.8	4

72	An Orphaned Baltic Terrane in the Greenland Caledonides: A Sm-Nd and Detrital Zircon Study of a High-Pressure/Ultrahigh-Pressure Complex in Liverpool Land. *Journal of Geology*, **2016**, 124, 541-567	2	4
71	Seeking the primary compositions of mantle xenoliths: Isotopic and elemental consequences of sequential leaching treatments on an eclogite suite. *Chemical Geology*, **2012**, 328, 137-148	4.2	4
70	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.. *Australian Journal of Earth Sciences*, **1998**, 45, 817-821	1.4	4
69	Diamonds from Myanmar and Thailand: Characteristics and Possible Origins. *Economic Geology*, **2001**, 96, 0159-170	4.3	4
68	Re-Os Isotope Systematics of Sulfides in Chromitites and Host Lherzolites of the Andaman Ophiolite, India. *Minerals (Basel, Switzerland)*, **2020**, 10, 686	2.4	4
67	Deep lithosphere of the North China Craton archives the fate of the Paleo-Asian Ocean. *Earth-Science Reviews*, **2021**, 215, 103554	10.2	4
66	The Earliest Subcontinental Lithospheric Mantle **2019**, 81-102		4
65	Timing the tectonic mingling of ultramafic rocks and metasediments in the southern section of the coastal accretionary complex of central Chile. *International Geology Review*, **2018**, 60, 2031-2045	2.3	4
64	Subduction initiation causes broad upper plate extension: The Late Cretaceous Iran example. *Lithos* , **2021**, 398-399, 106296	2.9	4
63	Zircon U-Pb dating and Lu-Hf isotope study of intermediate-mafic sub-volcanic and intrusive rocks in the Lishui Basin in the middle and lower reaches of Yangtze River. *Science Bulletin*, **2014**, 59, 3427-3440		3
62	Metasomatism versus host magma infiltration: A case study of Sal mantle xenoliths, Cape Verde Archipelago **2011**,		3
61	Petrography and Geochemistry of Peridotite Xenoliths from Hannuoba and Significance for Lithospheric Mantle Evolution. *Journal of China University of Geosciences*, **2006**, 17, 25-33		3
60	Lithosphere structure and evolution in southeastern Australia **2003**,		3
59	Diamond-forming HDFs tracking episodic mantle metasomatism beneath Nyurbinskaya kimberlite pipe (Siberian craton). *Contributions To Mineralogy and Petrology*, **2020**, 175, 1	3.5	3
58	Downward rejuvenation of the continental lower crust beneath the southeastern North China Craton. *Tectonophysics*, **2019**, 750, 213-228	3.1	3
57	Pyroxenite Xenoliths Record Complex Melt Impregnation in the Deep Lithosphere of the Northwestern North China Craton. *Journal of Petrology*, **2021**, 62,	3.9	3
56	Mechanical Mixing of Garnet Peridotite and Pyroxenite in the Orogenic Peridotite Lenses of the Tvaerdal Complex, Liverpool Land, Greenland Caledonides. *Journal of Petrology*, **2018**, 59, 2191-2220	3.9	3
55	Cr2O3 in corundum: Ultrahigh contents under reducing conditions. *American Mineralogist*, **2021**, 106, 1420-1437	2.9	3

54	Linking ocean subduction with early Paleozoic intracontinental orogeny in South China: Insights from the Xiaying complex in eastern Guangxi Province. *Lithos*, **2021**, 398-399, 106258	2.9	3
53	Apatite halogens and Sr O and zircon Hf O isotopes: Recycled volatiles in Jurassic porphyry ore systems in southern Tibet. *Chemical Geology*, **2022**, 120924	4.2	3
52	Carbonatites at 200 km: quenched melt inclusions in megacrystalline lherzolite xenoliths, Slave Craton, Canada. *Journal of African Earth Sciences*, **2001**, 32, A35	2.2	2
51	Discussion of K/Rb in amphiboles and amphibolites from Northeastern Minnesota. *Earth and Planetary Science Letters*, **1968**, 4, 30-32	5.3	2
50	Composition of diamond-forming media in cuboid diamonds from the V. Grib kimberlite pipe (Arkhangelsk province, Russia). *Geochemical Journal*, **2017**, 51, 205-213	0.9	2
49	Proton-Microprobe Trace Element Study of Selected Leg 135 Core Samples		2
48	Metamorphic history and Neoarchean–Paleoproterozoic crustal growth of the central Trans-North China Orogen: Evidence from granulite- to amphibolite-facies rocks of the Hengshan complex. *Gondwana Research*, **2021**, 93, 162-183	5.1	2
47	Are Xenoliths From Southwestern Kaapvaal Craton Representative of the Broader Mantle? Constraints From Magnetotelluric Modeling. *Geophysical Research Letters*, **2021**, 48, e2021GL092570	4.9	2
46	Nitrogen under Super-Reducing Conditions: Ti Oxynitride Melts in Xenolithic Corundum Aggregates from Mt Carmel (N. Israel). *Minerals (Basel, Switzerland)*, **2021**, 11, 780	2.4	2
45	Detrital zircon age studies of Haast Schist in western Otago and Marlborough, New Zealand: constraints on their protolith age, terrane ancestry and Au–W mineralisation. *Australian Journal of Earth Sciences*, **2021**, 68, 381-396	1.4	2
44	Thermal architecture of cratonic India and implications for decratonization of the Western Dharwar Craton: Evidence from mantle xenoliths in the Deccan Traps. *Lithos*, **2021**, 382-383, 105927	2.9	2
43	Ti in corundum traces crystal growth in a highly reduced magma. *Scientific Reports*, **2021**, 11, 2439	4.9	2
42	Decratonization and reactivation of the southern Indian shield: An integrated perspective. *Earth-Science Reviews*, **2021**, 220, 103702	10.2	2
41	Making and unmaking continental mantle: Geochemical and geophysical perspectives. *Acta Geologica Sinica*, **2019**, 93, 249-250	0.7	1
40	Petrography and perovskite U-Pb age of the Katuba kimberlite, Kundelungu Plateau (D.R. Congo): Implications for regional tectonism and mineralisation. *Journal of African Earth Sciences*, **2019**, 156, 35-43	2.2	1
39	Temporal correlation of magmatic-tectonic events in the lower and upper crust in north-east Australia. *International Journal of Earth Sciences*, **2012**, 101, 1091-1109	2.2	1
38	Trace element characteristics in the diopsides of peridotite xenoliths: a laser ablation-inductively coupled plasma-mass spectrometry study. *Science Bulletin*, **1998**, 43, 579-583		1
37	Geochronology in New South Wales. *Australian Journal of Earth Sciences*, **2008**, 55, 737-740	1.4	1

36	Upper mantle composition: Tools for smarter diamond exploration **2005**, 7-10		1
35	Granulite xenoliths from Cenozoic Basalts in SE China provide geochemical fingerprints to distinguish lower crust terranes from the North and South China tectonic blocksReply. *Lithos*, **2004**, 73, 135-144	2.9	1
34	Diamond exploration and mantle structure imaging using PIXE microanalysis. *Nuclear Instruments & Methods in Physics Research B*, **1996**, 109-110, 601-605	1.2	1
33	THE GREFSHEIM (NORWAY) METEORITE: A NEW L5 CHONDRITE. *Meteoritics*, **1979**, 14, 117-120		1
32	Structure and composition of the lithosphere beneath Mount Carmel, North Israel. *Contributions To Mineralogy and Petrology*, **2022**, 177, 1	3.5	1
31	Depletion of the upper mantle by convergent tectonics in the Early Earth. *Scientific Reports*, **2021**, 11, 21489	4.9	1
30	Zircons from the Wambidgee Serpentinite Belt, southern Lachlan Orogen: evidence for oceanic crust at the CambrianOrdovician boundary. *Australian Journal of Earth Sciences*,1-13	1.4	1
29	Geochemical and Isotopic Evolution of Late Oligocene Magmatism in Quchan, NE Iran. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2021GC009973	3.6	1
28	Open System Re-Os Isotope Behavior in Platinum-Group Minerals during Laterization?. *Minerals (Basel, Switzerland)*, **2021**, 11, 1083	2.4	1
27	Zircon U-Pb, geochemical and isotopic constraints on the age and origin of A- and I-type granites and gabbro-diorites from NW Iran. *Lithos*, **2020**, 374-375, 105688	2.9	1
26	Characterization of the metasomatizing agent in the upper mantle beneath the northern Pannonian Basin based on Raman imaging, FIB-SEM, and LA-ICP-MS analyses of silicate melt inclusions in spinel peridotite. *American Mineralogist*, **2021**, 106, 685-700	2.9	1
25	Amphibolites from makran accretionary complex record Permian-Triassic Neo-Tethyan evolution. *International Geology Review*,1-17	2.3	1
24	Detrital zircons in TriassicCretaceous sandstones, Clarence-Moreton Basin, eastern Australia: speculations upon Australia and Zealandia provenances. *Australian Journal of Earth Sciences*,1-20	1.4	1
23	Light oxygen isotopes in mantle-derived magmas reflect assimilation of sub-continental lithospheric mantle material. *Nature Communications*, **2021**, 12, 6295	17.4	0
22	Immiscible-melt inclusions in corundum megacrysts: Microanalyses and geological implications. *American Mineralogist*, **2021**, 106, 559-569	2.9	0
21	Melting Dynamics of Late Cretaceous Lamprophyres in Central Asia Suggest a Mechanism to Explain Many Continental Intraplate Basaltic Suite Magmatic Provinces. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2021JB021663	3.6	0
20	Detrital zircon provenance of Permian to Triassic Gondwana sequences, Zealandia and eastern Australia. *New Zealand Journal of Geology, and Geophysics*,1-13	1.6	0
19	Perturbation of the deep-Earth carbon cycle in response to the Cambrian Explosion.. *Science Advances*, **2022**, 8, eabj1325	14.3	0

18	Where did the Kontum Massif in central Vietnam come from?. *Precambrian Research*, **2022**, 377, 106725	3.9	0
17	A Showcase of Analytical Techniques: Native V in Hibonite. *Microscopy and Microanalysis*, **2019**, 25, 2486-2487	2.5	
16	Lithospheric mapping: a pathfinder for hidden terrane and ore systems in southren Lhasa block. *Acta Geologica Sinica*, **2019**, 93, 204-204	0.7	
15	Emplacement age of the Tshibwe kimberlite, Democratic Republic of Congo, by in-situ LAM-ICPMS U/Pb dating of groundmass perovskite. *Journal of African Earth Sciences*, **2019**, 157, 103502	2.2	
14	Complex evolution of the lower crust beneath the southeastern North China Craton: The Junan xenoliths and xenocrysts: Reply. *Lithos*, **2015**, 234-235, 96-99	2.9	
13	Provenance of Jurassic sandstones in the Rakaia Terrane, Canterbury, New Zealand. *New Zealand Journal of Geology, and Geophysics*, **2018**, 61, 136-144	1.6	
12	Chromium in Corundum: Ultra-high Contents Under Reducing Conditions. *Microscopy and Microanalysis*, **2019**, 25, 2484-2485	0.5	
11	Reply to comment by Qi and Wang on "Similar crust beneath disrupted and intact cratons: Arguments against lower-crust delamination as a decratonization trigger" *Tectonophysics*, **2019**, 767, 128156	3.1	
10	Geoscience Data Integration: Insights into Mapping Lithospheric Architecture. *ASEG Extended Abstracts*, **2015**, 2015, 1-2	0.2	
9	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. *Lithos*, **2014**, 196-197, 380-383	2.9	
8	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	
7	Diamonds from Myanmar and Thailand: Characteristics andPossible Origins. *Economic Geology*, **2001**, 96, 0159-170	4.3	
6	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	
5	The evolution of lithospheric domains: A new framework to enhance mineral exploration targeting **2005**, 41-44		
4	THE FEN DAMKJERNITE: PETROLOGY OF A "CENTRAL-COMPLEX KIMBERLITE" **1975**, 163-177		
3	The microstructure of layered ultramafic cumulates: Case study of the Bear Creek intrusion, Trinity ophiolite, California, USA. *Lithos*, **2021**, 388-389, 106047	2.9	
2	Phanerozoic orogeny in the South China Block traced by clastic components from Cambrian to Triassic sedimentary rocks. *Journal of Asian Earth Sciences*, **2021**, 216, 104827	2.8	
1	Zircon xenocrysts in late cretaceous magmatic rocks in the kermanshah ophiolite: link to Iran continental crust supports the subduction initiation model. *International Geology Review*,1-12	2.3	