William L Griffin

List of Publications by Year
in descending order

118 papers	10,720 citations	61857 43 h-index	30848 102 g-index
118 all docs	118 docs citations	118 times ranked	5849 citing authors

#	Article	IF	Citations
1	The application of laser ablation-inductively coupled plasma-mass spectrometry to in situ Uâ€“Pb zircon geochronology. Chemical Geology, 2004, 211, 47-69.	1.4	4,097
2	Non-chondritic distribution of the highly siderophile elements in mantle sulphides. Nature, 2000, 407, 891-894.	13.7	428
3	Mesozoic decratonization of the North China block. Geology, 2008, 36, 467.	2.0	341
4	Volatile-bearing minerals and lithophile trace elements in the upper mantle. Chemical Geology, 1997, 141, 153-184.	1.4	307
5	Are Lithospheres Forever? Tracking Changes in Subcontinental Lithospheric Mantle Through Time. GSA Today, 2001, 11, 4.	1.1	242
6	Apatite Composition: Tracing Petrogenetic Processes in Transhimalayan Granitoids. Journal of Petrology, 2009, 50, 1829-1855.	1.1	223
7	New insights into the Reâ€“Os systematics of sub-continental lithospheric mantle from in situ analysis of sulphides. Earth and Planetary Science Letters, 2002, 203, 651-663.	1.8	212
8	Thermal and petrological structure of the lithosphere beneath Hannuoba, Sino-Korean Craton, China: evidence from xenoliths. Lithos, 2001, 56, 267-301.	0.6	202
9	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.	1.6	196
10	In situ Os isotopes in abyssal peridotites bridge the isotopic gap between MORBs and their source mantle. Nature, 2005, 436, 1005-1008.	13.7	190
11	The Taihua group on the southern margin of the North China craton: further insights from Uâ€“Pb ages and Hf isotope compositions of zircons. Mineralogy and Petrology, 2009, 97, 43-59.	0.4	189
12	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.	1.6	170
13	Chromitites in ophiolites: How, where, when, why? Part II. The crystallization of chromitites. Lithos, 2014, 189, 140-158.	0.6	170
14	Mantle formation and evolution, Slave Craton: constraints from HSE abundances and Reâ€“Os isotope systematics of sulfide inclusions in mantle xenocrysts. Chemical Geology, 2004, 208, 61-88.	1.4	143
15	Multiple events in the Neo-Tethyan oceanic upper mantle: Evidence from Ruâ€“Osâ€“Ir alloys in the Luobusa and Dongqiao ophiolitic podiform chromitites, Tibet. Earth and Planetary Science Letters, 2007, 261, 33-48.	1.8	132
16	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.	3.0	124
17	Reâ€“Os isotopes of sulfides in mantle xenoliths from eastern China: Progressive modification of lithospheric mantle. Lithos, 2008, 102, 43-64.	0.6	117
18	Melt/mantle mixing produces podiform chromite deposits in ophiolites: Implications of Reâ€“Os systematics in the Dongqiao Neo-tethyan ophiolite, northern Tibet. Gondwana Research, 2012, 21, 194-206.	3.0	113

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19	Ultradeep continental roots and their oceanic remnants: A solution to the geochemical â€œmantle reservoirâ€•problem?. Lithos, 2009, 112, 1043-1054.	0.6	100
20	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.	0.6	98
21	Screening criteria for reliable Uâ€“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.	0.6	95
22	Tibetan chromitites: Excavating the slab graveyard. Geology, 2015, 43, 179-182.	2.0	94
23	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, Canadaâ˜†. Lithos, 2004, 77, 39-55.	0.6	92
24	Fingerprints of metamorphism in chromite: New insights from minor and trace elements. Chemical Geology, 2014, 389, 137-152.	1.4	90
25	Flood basalts and metallogeny: The lithospheric mantle connection. Earth-Science Reviews, 2008, 86, 145-174.	4.0	84
26	Plume-subduction interaction forms large auriferous provinces. Nature Communications, 2017, 8, 843.	5.8	69
27	Early Paleozoic tectonic reconstruction of Iran: Tales from detrital zircon geochronology. Lithos, 2017, 268-271, 87-101.	0.6	69
28	Genesis and tectonic implications of podiform chromitites in the metamorphosed ultramafic massif of Dobromirtsi (Bulgaria). Gondwana Research, 2015, 27, 555-574.	3.0	64
29	Crustal Evolution of NW Iran: Cadomian Arcs, Archean Fragments and the Cenozoic Magmatic Flare-Up. Journal of Petrology, 2017, 58, 2143-2190.	1.1	62
30	Subduction signature for quenched carbonatites from the deep lithosphere. Geology, 2002, 30, 743.	2.0	61
31	Garnetite Xenoliths and Mantleâ€“Water Interactions Below the Colorado Plateau, Southwestern United States. Journal of Petrology, 2005, 46, 1901-1924.	1.1	59
32	Origin of volcanic ash beds across the Permianâ€“Triassic boundary, Daxiakou, South China: Petrology and Uâ€“Pb age, trace elements and Hf-isotope composition of zircon. Chemical Geology, 2013, 360-361, 41-53.	1.4	59
33	Sulfide and whole rock Reâ€“Os systematics of eclogite and pyroxenite xenoliths from the Slave Craton, Canada. Earth and Planetary Science Letters, 2009, 283, 48-58.	1.8	56
34	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.	1.1	56
35	Buoyant ancient continental mantle embedded in oceanic lithosphere (Sal Island, Cape Verde) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.6	53
36	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.	1.6	52

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37	In situ Reâ€“Os isotopic analysis of platinum-group minerals from the MayarÃ-Cristal ophiolitic massif (MayarÃ-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.	1.2	51
38	Recurrent mesoproterozoic continental magmatism in South-Central Norway. International Journal of Earth Sciences, 2009, 98, 1151-1171.	0.9	50
39	Archean mantle fragments in Proterozoic crust, Western Gneiss Region, Norway. Geology, 2004, 32, 609.	2.0	48
40	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.	1.1	48
41	Roll-Back, Extension and Mantle Upwelling Triggered Eocene Potassic Magmatism in NW Iran. Journal of Petrology, 2018, 59, 1417-1465.	1.1	47
42	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.	0.6	46
43	Primitive Arc Magmatism and Delamination: Petrology and Geochemistry of Pyroxenites from the Cabo Ortegal Complex, Spain. Journal of Petrology, 2016, 57, 1921-1954.	1.1	46
44	Mud Tank Zircon: Longâ€Term Evaluation of a Reference Material for Uâ€Pb Dating, Hfâ€Isotope Analysis and Trace Element Analysis. Geostandards and Geoanalytical Research, 2019, 43, 339-354.	1.7	46
45	Proterozoic mantle lithosphere beneath the extended margin of the South China block: In situ Re-Os evidence. Geology, 2003, 31, 709.	2.0	45
46	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.	1.2	44
47	Crustal evolution in the Georgetown Inlier, North Queensland, Australia: a detrital zircon grain study. Chemical Geology, 2007, 245, 198-218.	1.4	41
48	Gold in the mantle: A global assessment of abundance and redistribution processes. Lithos, 2018, 322, 376-391.	0.6	41
49	Apatite halogens and Sr-O and zircon Hf-O isotopes: Recycled volatiles in Jurassic porphyry ore systems in southern Tibet. Chemical Geology, 2022, 605, 120924.	1.4	40
50	Os-isotope variability within sulfides from podiform chromitites. Chemical Geology, 2012, 291, 224-235.	1.4	39
51	Persistence of mantle lithospheric Reâ€“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.	1.2	37
52	Twoâ€layered oceanic lithospheric mantle in a <scp>T</scp>ibetan ophiolite produced by episodic subduction of <scp>T</scp>ethyan slabs. Geochemistry, Geophysics, Geosystems, 2017, 18, 1189-1213.	1.0	35
53	The Kimberlites and related rocks of the Kuruman Kimberlite Province, Kaapvaal Craton, South Africa. Contributions To Mineralogy and Petrology, 2011, 161, 351-371.	1.2	34
54	In situ Uâ€“Pb Dating and Srâ€“Nd 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.	1.1	34

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55	The architecture of the European-Mediterranean lithosphere: A synthesis of the Re-Os evidence. Geology, 2013, 41, 547-550.	2.0	34
56	Zircon U-Pb and Hf isotopes of volcanic rocks from the Batamayineishan Formation in the eastern Junggar Basin. Science Bulletin, 2010, 55, 4150-4161.	1.7	33
57	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.	0.9	33
58	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.	1.2	33
59	The Gurupi Belt, northern Brazil: Lithostratigraphy, geochronology, and geodynamic evolution. Precambrian Research, 2005, 141, 83-105.	1.2	32
60	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.	1.8	32
61	<scp>GZ</scp>7 and <scp>GZ</scp>8 â€“ Two Zircon Reference Materials for <scp>SIMS</scp> Uâ€Pb Geochronology. Geostandards and Geoanalytical Research, 2018, 42, 431-457.	1.7	32
62	Microinclusions in monocrystalline octahedral diamonds and coated diamonds from Diavik, Slave Craton: Clues to diamond genesis. Lithos, 2009, 112, 724-735.	0.6	31
63	Crustal zircons and mantle sulfides: Archean to Triassic events in the lithosphere beneath south-eastern Sicily. Lithos, 2007, 96, 503-523.	0.6	30
64	Significance of ancient sulfide PGE and Reâ€“Os signatures in the mantle beneath Calatrava, Central Spain. Contributions To Mineralogy and Petrology, 2014, 168, 1.	1.2	30
65	Fluid-present deformation aids chemical modification of chromite: Insights from chromites from Golyamo Kamenyane, SE Bulgaria. Lithos, 2015, 228-229, 78-89.	0.6	30
66	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 (OjÃ©n peridotite massif,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	29
67	Thermal metamorphism of mantle chromites and the stability of noble-metal nanoparticles. Contributions To Mineralogy and Petrology, 2015, 170, 1.	1.2	28
68	Trace-element fingerprints of chromite, magnetite and sulfides from the 3.1ÂGa ultramaficâ€“mafic rocks of the Nuggihalli greenstone belt, Western Dharwar craton (India). Contributions To Mineralogy and Petrology, 2015, 169, 1.	1.2	28
69	The recycling of chromitites in ophiolites from southwestern North America. Lithos, 2017, 294-295, 53-72.	0.6	28
70	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.	0.6	27
71	Zircon recycling and crystallization during formation of chromite- and Ni-arsenide ores in the subcontinental lithospheric mantle (SerranÃa de Ronda, Spain). Ore Geology Reviews, 2017, 90, 193-209.	1.1	26
72	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.	1.8	24

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73	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.	0.6	23
74	Sulfides and chalcophile elements in Roberts Victor eclogites: Unravelling a sulfide-rich metasomatic event. Chemical Geology, 2013, 354, 73-92.	1.4	22
75	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.	0.6	21
76	Langshan basalts record recycled Paleo-Asian oceanic materials beneath the northwest North China Craton. Chemical Geology, 2019, 524, 88-103.	1.4	21
77	Mid-Cretaceous lamproite from the Kutch region, Gujarat, India: Genesis and tectonic implications. Gondwana Research, 2014, 26, 942-956.	3.0	19
78	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.	1.8	19
79	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.	1.2	18
80	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.	1.0	17
81	Microcontinents among the accretionary complexes of the Central Asia Orogenic Belt: In situ Reâ€“Os evidence. Journal of Asian Earth Sciences, 2013, 62, 37-50.	1.0	16
82	Complex evolution of the lower crust beneath the southeastern North China Craton: the Junan xenoliths and xenocrysts. Lithos, 2014, 206-207, 113-126.	0.6	16
83	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.	0.6	16
84	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.	1.0	14
85	Gold in the mantle: The role of pyroxenites. Lithos, 2016, 244, 205-217.	0.6	14
86	Similar crust beneath disrupted and intact cratons: Arguments against lower-crust delamination as a decratonization trigger. Tectonophysics, 2019, 750, 1-8.	0.9	14
87	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.	1.2	12
88	Re-Os isotopic constraints on the evolution of the Bangong-Nujiang Tethyan oceanic mantle, Central Tibet. Lithos, 2015, 224-225, 32-45.	0.6	12
89	Geochemistry and Origin of Sulphide Minerals in Mantle Xenoliths: Qilin, Southeastern China. , 0, .		12
90	Phanerozoic magma underplating and crustal growth beneath the North China Craton. Terra Nova, 2017, 29, 211-217.	0.9	11

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91	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.	0.9	10
92	Ancient mantle lithosphere beneath the Khanka massif in the Russian Far East: inÂsitu Reâ€“Os evidence. Terra Nova, 2015, 27, 277-284.	0.9	10
93	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.	0.6	10
94	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.	0.6	10
95	Ti3+ in corundum traces crystal growth in a highly reduced magma. Scientific Reports, 2021, 11, 2439.	1.6	10
96	Deep lithosphere of the North China Craton archives the fate of the Paleo-Asian Ocean. Earth-Science Reviews, 2021, 215, 103554.	4.0	10
97	Melt Migration and Interaction in a Dunite Channel System within Oceanic Forearc Mantle: the Yushigou Harzburgiteâ€“Dunite Associations, North Qilian Ophiolite (NW China). Journal of Petrology, 2021, 62, .	1.1	10
98	Probing the Southern African Lithosphere With Magnetotellurics: 2. Linking Electrical Conductivity, Composition, and Tectonomagmatic Evolution. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	10
99	Petrogenesis and tectonic setting of the Tuyeh-Darvar Granitoid (Northern Iran): Constraints from zircon U-Pb geochronology and Sr-Nd isotope geochemistry. Lithos, 2018, 318-319, 494-508.	0.6	9
100	Reworking of old continental lithosphere: Unradiogenic Os and decoupled Hf Nd isotopes in sub-arc mantle pyroxenites. Lithos, 2020, 354-355, 105346.	0.6	9
101	Pyroxenite Xenoliths Record Complex Melt Impregnation in the Deep Lithosphere of the Northwestern North China Craton. Journal of Petrology, 2021, 62, .	1.1	9
102	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.	0.9	8
103	Reâ€“Os isotopic constraints on the source of platinum-group minerals (PGMs) from the VestÅ™ev pyrope-rich garnet placer deposit, Bohemian Massif. Ore Geology Reviews, 2015, 68, 117-126.	1.1	8
104	Geochronology and geochemistry of exotic blocks of Cadomian crust from the salt diapirs of SE Zagros: the Chah-Banu example. International Geology Review, 2022, 64, 1409-1430.	1.1	8
105	Temporal and genetic relationships between the Kidston gold-bearing Breccia Pipe and the Lochaber Ring Dyke Complex, North Queensland, Australia: insights from in situ Uâ€“Pb and Hf-isotope analysis of zircon. Mineralogy and Petrology, 2009, 95, 17-45.	0.4	7
106	Lithospheric mantle evolution beneath northeast Australia. Lithos, 2011, 125, 405-422.	0.6	7
107	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.	1.4	7
108	Metamorphic history and Neoarcheanâ€“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.	3.0	7

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109	The Earliest Subcontinental Lithospheric Mantle. , 2019, , 81-102.		6
110	Re-Os Isotope Systematics of Sulfides in Chromitites and Host Lherzolites of the Andaman Ophiolite, India. Minerals (Basel, Switzerland), 2020, 10, 686.	0.8	6
111	Oceanization of the subcontinental lithospheric mantle recorded in the Yunzhug ophiolite, Central Tibetan Plateau. Lithos, 2020, 370-371, 105612.	0.6	6
112	Structure and composition of the lithosphere beneath Mount Carmel, North Israel. Contributions To Mineralogy and Petrology, 2022, 177, 1.	1.2	6
113	Detrital zircon provenance of Permian to Triassic Gondwana sequences, Zealandia and eastern Australia. New Zealand Journal of Geology, and Geophysics, 2022, 65, 457-469.	1.0	5
114	Tracking the birth and growth of Cimmeria: Geochronology and origins of intrusive rocks from NW Iran. Gondwana Research, 2020, 87, 188-206.	3.0	5
115	Open System Re-Os Isotope Behavior in Platinum-Group Minerals during Laterization?. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Ov	0.8	3
116	Geochemical variability among stratiform chromitites and ultramafic rocks from Western Makran, South Iran. Lithos, 2022, 412-413, 106591.	0.6	3
117	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.	0.9	2
118	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.	0.9	1