

# Reid R Keays

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8319794/publications.pdf>

Version: 2024-02-01

91  
papers

7,965  
citations

31976

53  
h-index

46799

89  
g-index

93  
all docs

93  
docs citations

93  
times ranked

2673  
citing authors

#	ARTICLE	IF	CITATIONS
1	A temporal link between the Emeishan large igneous province (SW China) and the end-Guadalupian mass extinction. <i>Earth and Planetary Science Letters</i> , 2002, 196, 113-122.	4.4	535
2	Sulfide melt-silicate melt distribution coefficients for noble metals and other chalcophile elements as deduced from MORB: Implications for partial melting. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 3379-3389.	3.9	419
3	The role of komatiitic and picritic magmatism and S-saturation in the formation of ore deposits. <i>Lithos</i> , 1995, 34, 1-18.	1.4	408
4	Geochemistry, Petrogenesis and Metallogenesis of the Panzhihua Gabbroic Layered Intrusion and Associated Fe-Ti-V Oxide Deposits, Sichuan Province, SW China. <i>Journal of Petrology</i> , 2005, 46, 2253-2280.	2.8	376
5	Abundance and distribution of gold, palladium and iridium in some spinel and garnet lherzolites: implications for the nature and origin of precious metal-rich intergranular components in the upper mantle. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 2425-2442.	3.9	295
6	Precious metals in magnesian low-Ti lavas: Implications for metallogenesis and sulfur saturation in primary magmas. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 1797-1811.	3.9	271
7	Siderophile and Chalcophile Metal Variations in Flood Basalts from the Siberian Trap, Noril'sk Region: Implications for the Origin of the Ni-Cu-PGE Sulfide Ores. <i>Economic Geology</i> , 2005, 100, 439-462.	3.8	226
8	Controls on Platinum-Group Elemental Distributions of Podiform Chromitites: A Case Study of High-Cr and High-Al Chromitites from Chinese Orogenic Belts. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 677-688.	3.9	217
9	Additional estimates of continental surface Precambrian shield composition in Canada. <i>Geochimica Et Cosmochimica Acta</i> , 1976, 40, 73-83.	3.9	204
10	Crustal sulfur is required to form magmatic Ni-Cu sulfide deposits: evidence from chalcophile element signatures of Siberian and Deccan Trap basalts. <i>Mineralium Deposita</i> , 2010, 45, 241-257.	4.1	184
11	Experimentally determined sulfide melt-silicate melt partition coefficients for iridium and palladium. <i>Chemical Geology</i> , 1994, 117, 361-377.	3.3	183
12	Sulfur saturation and second-stage melts; application to the Bushveld platinum metal deposits. <i>Economic Geology</i> , 1986, 81, 1431-1445.	3.8	151
13	Chemical fractionations in meteorites-V. Volatile and siderophile elements in achondrites and ocean ridge basalts. <i>Geochimica Et Cosmochimica Acta</i> , 1972, 36, 329-345.	3.9	148
14	Chemical fractionations in meteorites-IV abundances of fourteen trace elements in L-chondrites; implications for cosmochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 1971, 35, 337-363.	3.9	140
15	Sulfur and selenium systematics of the subcontinental lithospheric mantle: Inferences from the Massif Central xenolith suite (France). <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 4137-4151.	3.9	127
16	The association boninite low-Ti andesite-choleiite in the heathcote greenstone belt, Victoria; ensimatic setting for the early lachlan fold belt. <i>Australian Journal of Earth Sciences</i> , 1984, 31, 161-175.	1.0	111
17	Precious metals in ocean-ridge basalts; implications for basalts as source rocks for gold mineralization. <i>Economic Geology</i> , 1976, 71, 705-720.	3.8	109
18	Formation of platinumiferous sulfide horizons by crystal fractionation and magma mixing in the Munni Munni layered intrusion, West Pilbara Block, Western Australia. <i>Economic Geology</i> , 1989, 84, 1775-1804.	3.8	107

#	ARTICLE	IF	CITATIONS
19	The petrogenesis and platinum-group element geochemistry of the Newer Volcanic Province, Victoria, Australia. <i>Chemical Geology</i> , 1997, 136, 181-204.	3.3	102
20	The simultaneous determination of 20 trace elements in terrestrial, lunar and meteoritic material by radiochemical neutron activation analysis. <i>Analytica Chimica Acta</i> , 1974, 72, 1-29.	5.4	101
21	Archaean basic volcanism in the Eastern Goldfields Province, Yilgarn Block, Western Australia. <i>Precambrian Research</i> , 1985, 30, 113-152.	2.7	101
22	S saturation history of Nain Plutonic Suite mafic intrusions: origin of the Voisey's Bay Ni-Cu-Co sulfide deposit, Labrador, Canada. <i>Mineralium Deposita</i> , 2012, 47, 23-50.	4.1	101
23	Geochemical relationships in the Sudbury igneous complex; origin of the main mass and offset dikes. <i>Economic Geology</i> , 1997, 92, 289-307.	3.8	100
24	Geochemical constraints on the origin of the Permian Baimazhai mafic-ultramafic intrusion, SW China. <i>Contributions To Mineralogy and Petrology</i> , 2006, 152, 309-321.	3.1	99
25	Copper and Noble Metal Enrichments Across the Lithosphere-Asthenosphere Boundary of Mantle Diapirs: Evidence from the Lanzo Lherzolite Massif. <i>Journal of Petrology</i> , 1993, 34, 1111-1140.	2.8	96
26	Siderophile and chalcophile elemental constraints on the origin of the Jinchuan Ni-Cu-(PGE) sulfide deposit, NW China. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 404-424.	3.9	91
27	The behaviour of platinum-group elements in basalts from the East Greenland rifted margin. <i>Contributions To Mineralogy and Petrology</i> , 2002, 143, 133-153.	3.1	90
28	Geochemistry of the Emeishan flood basalts at Yangliuping, Sichuan, SW China: implications for sulfide segregation. <i>Contributions To Mineralogy and Petrology</i> , 2006, 152, 53-74.	3.1	90
29	Cambrian greenstone belts in Victoria: Marginal sea-crust slices in the Lachlan Fold Belt of southeastern Australia. <i>Earth and Planetary Science Letters</i> , 1978, 41, 197-208.	4.4	88
30	Acraman impact ejecta and host shales: Evidence for low-temperature mobilization of iridium and other platinumoids. <i>Geology</i> , 1990, 18, 132.	4.4	87
31	Formation of Ni-Cu-Platinum Group Element sulfide mineralization in the Sudbury Impact Melt Sheet. <i>Mineralogy and Petrology</i> , 2004, 82, 217-258.	1.1	87
32	Platinum-group element geochemistry of the continental flood basalts in the central Emeishan Large Igneous Province, SW China. <i>Chemical Geology</i> , 2009, 262, 246-261.	3.3	83
33	Direct crystallization of refractory platinum-group element alloys from boninitic magmas: Evidence from western Tasmania. <i>Australian Journal of Earth Sciences</i> , 1992, 39, 373-387.	1.0	81
34	Iridium and palladium as discriminants of volcanic-exhalative, hydrothermal, and magmatic nickel sulfide mineralization. <i>Economic Geology</i> , 1982, 77, 1535-1547.	3.8	76
35	Platinum Group Element Geochemistry of Mineralized and Nonmineralized Komatiites and Basalts. <i>Economic Geology</i> , 2010, 105, 795-823.	3.8	76
36	Volatile and precious metal zoning in the Broadlands geothermal field, New Zealand. <i>Economic Geology</i> , 1977, 72, 1337-1354.	3.8	75

#	ARTICLE	IF	CITATIONS
37	Precious metals in the Jemberlana Intrusion, Western Australia; implications for the genesis of platiniferous ores in layered intrusions. <i>Economic Geology</i> , 1981, 76, 1118-1141.	3.8	75
38	Geology, geochemistry, and origin of platinum-group element-chromitite occurrences in the Heazlewood River Complex, Tasmania. <i>Economic Geology</i> , 1990, 85, 765-793.	3.8	74
39	Petrogenesis of Victorian Cambrian Tholeiites and Implications for the Origin of Associated Boninites. <i>Journal of Petrology</i> , 1987, 28, 1075-1109.	2.8	70
40	Thallium: a sensitive indicator of rock/seawater interaction and of sulfur saturation of silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 1979, 43, 1303-1311.	3.9	69
41	Structural, lithological, and geochemical constraints on the dynamic magma plumbing system of the Jinchuan Ni-Cu sulfide deposit, NW China. <i>Mineralium Deposita</i> , 2012, 47, 277-297.	4.1	69
42	Precious metals in volcanic peridotite-associated nickel sulfide deposits in Western Australia; II, Distribution within the ores and host rocks at Kambalda. <i>Economic Geology</i> , 1981, 76, 1645-1674.	3.8	65
43	Geologic and geochemical relationships between the contact sublayer, inclusions, and the main mass of the Sudbury Igneous Complex; a case study of the Whistle Mine Embayment. <i>Economic Geology</i> , 1997, 92, 647-673.	3.8	65
44	Siderophile and chalcophile metal variations in Tertiary picrites and basalts from West Greenland with implications for the sulphide saturation history of continental flood basalt magmas. <i>Mineralium Deposita</i> , 2007, 42, 319-336.	4.1	64
45	Wallrock alteration associated with turbidite-hosted gold deposits. Examples from the Palaeozoic Lachlan Fold Belt in central Victoria, Australia. <i>Ore Geology Reviews</i> , 1998, 13, 345-380.	2.7	63
46	Principles of mobilization (dissolution) of metals in mafic and ultramafic rocks – The role of immiscible magmatic sulphides in the generation of hydrothermal gold and volcanogenic massive sulphide deposits. <i>Ore Geology Reviews</i> , 1987, 2, 47-63.	2.7	61
47	Iridium anomaly from the Acraman impact ejecta horizon: impacts can produce sedimentary iridium peaks. <i>Nature</i> , 1989, 340, 542-544.	27.8	61
48	Geochemistry of Tertiary tholeiites and picrites from Qeqertarsuaq (Disko Island) and Nuussuaq, West Greenland with implications for the mineral potential of comagmatic intrusions. <i>Contributions To Mineralogy and Petrology</i> , 1997, 128, 139-163.	3.1	61
49	Segregation and Fractionation of Magmatic Ni-Cu-PGE Sulfides in the Western Jinchuan Intrusion, Northwestern China: Insights from Platinum Group Element Geochemistry. <i>Economic Geology</i> , 2013, 108, 1793-1811.	3.8	61
50	Use of geochemistry as a guide to platinum group element potential of mafic-ultramafic rocks: examples from the west Pilbara Block and Halls Creek Mobile Zone, Western Australia. <i>Precambrian Research</i> , 1991, 50, 1-35.	2.7	59
51	Geochemistry of mineralised and barren komatiites from the Perseverance nickel deposit, Western Australia. <i>Lithos</i> , 1995, 34, 209-234.	1.4	59
52	Platinum-group elements in the Icelandic rift system: melting processes and mantle sources beneath Iceland. <i>Chemical Geology</i> , 2003, 196, 209-234.	3.3	58
53	Gold mobilization during cleavage development in sedimentary rocks from the auriferous slate belt of central Victoria, Australia; some important boundary conditions. <i>Economic Geology</i> , 1978, 73, 496-511.	3.8	55
54	Re-Os isotope geochemistry of Tertiary picritic and basaltic magmatism of East Greenland: constraints on plume-lithosphere interactions and the genesis of the Platinova reef, Skaergaard intrusion. <i>Lithos</i> , 1999, 47, 107-126.	1.4	51

#	ARTICLE	IF	CITATIONS
55	Sulfide saturation history of the Stillwater Complex, Montana: chemostratigraphic variation in platinum group elements. <i>Mineralium Deposita</i> , 2012, 47, 151-173.	4.1	49
56	Trace element and petrologic clues to the formation of forsterite-bearing Ca-Al-rich inclusions in the Allende meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 607-622.	3.9	48
57	A study of precious metals in the Sudbury nickel irruptive ores. <i>Economic Geology</i> , 1970, 65, 438-450.	3.8	46
58	Evolution of the sublayer of the Sudbury Igneous Complex: geochemical, Sm-Nd isotopic and petrologic evidence. <i>Lithos</i> , 2000, 51, 271-292.	1.4	45
59	Distribution of sulphides and PGE within the porphyritic websterite zone of the Munni Munni Complex, Western Australia. <i>Australian Journal of Earth Sciences</i> , 1992, 39, 289-302.	1.0	44
60	The Formation of Low-Volume, High-Tenor Magmatic PGE-Au Sulfide Mineralization in Closed Systems: Evidence from Precious and Base Metal Geochemistry of the Platinova Reef, Skaergaard Intrusion, East Greenland. <i>Economic Geology</i> , 2014, 109, 387-406.	3.8	44
61	Crustal contamination and PGE mineralization in the Platreef, Bushveld Complex, South Africa: evidence for multiple contamination events and transport of magmatic sulfides. <i>Mineralium Deposita</i> , 2011, 46, 813-832.	4.1	41
62	The Aveybury Ni deposit, Tasmania: A case study of an unconventional nickel deposit. <i>Ore Geology Reviews</i> , 2013, 52, 4-17.	2.7	41
63	Precious metal values from interflow sedimentary rocks from the komatiite sequence at Kambalda, Western Australia. <i>Geochimica Et Cosmochimica Acta</i> , 1978, 42, 1151-1163.	3.9	40
64	Magma Chamber Processes in the Formation of the Low-sulphide Magmatic Au-PGE Mineralization of the Platinova Reef in the Skaergaard Intrusion, East Greenland. <i>Journal of Petrology</i> , 2015, 56, 2319-2340.	2.8	40
65	Palladium, iridium, and gold in the ores and host rocks of nickel sulfide deposits in Western Australia. <i>Economic Geology</i> , 1976, 71, 1214-1228.	3.8	39
66	Extreme enrichment of Se, Te, PGE and Au in Cu sulfide microdroplets: evidence from LA-ICP-MS analysis of sulfides in the Skaergaard Intrusion, east Greenland. <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	3.1	38
67	Palladium and iridium in the evaluation of nickel gossans in Western Australia. <i>Economic Geology</i> , 1976, 71, 1229-1243.	3.8	35
68	Variation in parental magmas of Mt Rouse, a complex polymagmatic monogenetic volcano in the basaltic intraplate Newer Volcanics Province, southeast Australia. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	34
69	Origin of chromite compositional variation in the Panton Sill, Western Australia. <i>Contributions To Mineralogy and Petrology</i> , 1979, 69, 75-82.	3.1	33
70	Platinum and palladium minerals in upper mantle-derived lherzolites. <i>Nature</i> , 1981, 294, 646-648.	27.8	33
71	Evolution of gold-bearing veins in dykes of the Woods Point dyke swarm, Victoria. <i>Mineralium Deposita</i> , 1982, 17, 175.	4.1	29
72	Two melting regimes during Paleogene flood basalt generation in East Greenland: combined REE and PGE modelling. <i>Contributions To Mineralogy and Petrology</i> , 2006, 151, 88-100.	3.1	29

#	ARTICLE	IF	CITATIONS
73	Siderophile and chalcophile metal variations in basalts: Implications for the sulfide saturation history and Ni-Cu-PGE mineralization potential of the Tarim continental flood basalt province, Xinjiang Province, China. <i>Ore Geology Reviews</i> , 2012, 45, 5-15.	2.7	29
74	Spherules and shard-like clasts from the late Proterozoic Acraman impact ejecta horizon, South Australia. <i>Meteoritics</i> , 1990, 25, 161-165.	1.4	27
75	The nature and genesis of marginal Cu-PGE-Au sulphide mineralisation in Paleogene Macrodykes of the Kangerlussuaq region, East Greenland. <i>Mineralium Deposita</i> , 2012, 47, 3-21.	4.1	27
76	Rhenium-osmium systematics of the Mount Isa copper orebody and the Eastern Creek Volcanics, Queensland, Australia: implications for ore genesis. <i>Mineralium Deposita</i> , 2008, 43, 553-573.	4.1	26
77	Petrogenetic significance of chromian spinels from the Sudbury Igneous Complex, Ontario, Canada. <i>Canadian Journal of Earth Sciences</i> , 1997, 34, 1405-1419.	1.3	25
78	Precious and volatile metals in the Perseverance nickel deposit gossan; implications for exploration in weathered terrains. <i>Economic Geology</i> , 1981, 76, 1752-1763.	3.8	24
79	Stromatolitic iron oxides: Evidence that sea-level changes can cause sedimentary iridium anomalies. <i>Geology</i> , 1991, 19, 551.	4.4	23
80	Mount Isa copper and lead-zinc-silver ores; coincidence or cogeneration?. <i>Economic Geology</i> , 1990, 85, 641-650.	3.8	21
81	Origin and depositional history of platinum-group minerals in placers – A critical review of facts and fiction. <i>Ore Geology Reviews</i> , 2022, 144, 104733.	2.7	19
82	3D textural evidence for the formation of ultra-high tenor precious metal bearing sulphide microdroplets in offset reefs: An extreme example from the Platinova Reef, Skaergaard Intrusion, Greenland. <i>Lithos</i> , 2016, 256-257, 55-74.	1.4	18
83	Multiple S isotope studies of the Stillwater Complex and country rocks: An assessment of the role of crustal S in the origin of PGE enrichment found in the J-M Reef and related rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 214, 226-245.	3.9	18
84	Controls on disseminated PGE-Cu-Ni sulfide mineralization within the Rietfontein deposit, Eastern Limb, Bushveld Complex, South Africa: Implications for the formation of contact-type magmatic sulfide deposits. <i>Ore Geology Reviews</i> , 2015, 64, 253-272.	2.7	5
85	Platinum mineralisation in the Owendale Uralian-Alaskan-type complex, New South Wales, Australia: The effects of serpentinization on Cu-PGE-Ni sulphides. <i>Ore Geology Reviews</i> , 2021, 130, 103928.	2.7	5
86	Southampton, Canada's third pallasite. <i>Canadian Journal of Earth Sciences</i> , 2013, 50, 26-31.	1.3	3
87	Mafic intrusions in the footwall of the Sudbury Igneous Complex: Origin of the Sudbury impact melt sheet and its associated ore deposits. <i>Ore Geology Reviews</i> , 2020, 120, 103435.	2.7	3
88	Petrogenesis of the Permian Luotuoshan sulfide-bearing mafic-ultramafic intrusion, Beishan Orogenic Belt, NW China: evidence from whole-rock Sr-Nd-Pb and zircon Hf isotopic geochemistry. <i>Journal of Geochemical Exploration</i> , 2022, 233, 106920.	3.2	3
89	Water-rock interactions and chemical compositional variations during ductile deformation of the NW-striking shear zone in the Jiapigou gold belt, China. <i>Diqiu Huaxue</i> , 1996, 15, 331-343.	0.5	2
90	The geology, geochemistry and Ni-Cu-PGE potential of mafic-ultramafic bodies associated with the Dido Batholith, North Queensland, Australia. <i>Ore Geology Reviews</i> , 2017, 90, 532-552.	2.7	2

#	ARTICLE	IF	CITATIONS
91	Mineralogical and petrochemical characteristics and genesis of Laoniugou gneiss in Jiapigou gold mine, Jilin Province. <i>Diqiu Huaxue</i> , 1992, 11, 224-236.	0.5	0