

# Michael Verrall

## List of Publications by Year in descending order

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45  
papers

1,076  
citations

394421

19  
h-index

414414

32  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1386  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pore characterization and clay bound water assessment in shale with a combination of NMR and low-pressure nitrogen gas adsorption. <i>International Journal of Coal Geology</i> , 2018, 194, 11-21.	5.0	138
2	Mineralogy and crystal chemistry of "garnierites" in the Goro lateritic nickel deposit, New Caledonia. <i>European Journal of Mineralogy</i> , 2009, 21, 467-483.	1.3	77
3	Biotite and Apatite as Tools for Tracking Pathways of Oxidized Fluids in the Archean East Repulse Gold Deposit, Australia. <i>Economic Geology</i> , 2013, 108, 667-690.	3.8	58
4	Poikilitic Textures, Heteradcumulates and Zoned Orthopyroxenes in the Ntaka Ultramafic Complex, Tanzania: Implications for Crystallization Mechanisms of Oikocrysts. <i>Journal of Petrology</i> , 2016, 57, 1171-1198.	2.8	55
5	An experimental study for carbonate reservoirs on the impact of CO <sub>2</sub> -EOR on petrophysics and oil recovery. <i>Fuel</i> , 2019, 235, 1019-1038.	6.4	50
6	Simulation and experimental measurements of internal magnetic field gradients and NMR transverse relaxation times (T <sub>2</sub> ) in sandstone rocks. <i>Journal of Petroleum Science and Engineering</i> , 2019, 175, 985-997.	4.2	49
7	A revised oxygen barometry in sulfide-saturated magmas and application to the Permian magmatic Niâ€Cu deposits in the southern Central Asian Orogenic Belt. <i>Mineralium Deposita</i> , 2018, 53, 731-755.	4.1	48
8	Pore Structure Changes Occur During CO <sub>2</sub> Injection into Carbonate Reservoirs. <i>Scientific Reports</i> , 2020, 10, 3624.	3.3	48
9	Nanoscale geomechanical properties of Western Australian coal. <i>Journal of Petroleum Science and Engineering</i> , 2018, 162, 736-746.	4.2	40
10	Distribution of Metals in the Termite <i>Tumulitermes tumuli</i> (Froggatt): Two Types of Malpighian Tubule Concretion Host Zn and Ca Mutually Exclusively. <i>PLoS ONE</i> , 2011, 6, e27578.	2.5	37
11	Impact of Composition on Pore Structure Properties in Shale: Implications for Micro-/Mesopore Volume and Surface Area Prediction. <i>Energy &amp; Fuels</i> , 2019, 33, 9619-9628.	5.1	37
12	Stable Hâ€Câ€O isotope and trace element geochemistry of the Cummins Range Carbonatite Complex, Kimberley region, Western Australia: implications for hydrothermal REE mineralization, carbonatite evolution and mantle source regions. <i>Mineralium Deposita</i> , 2014, 49, 905-932.	4.1	33
13	Mineral exploration and basement mapping in areas of deep transported cover using indicator heavy minerals and paleoredox fronts, Yilgarn Craton, Western Australia. <i>Ore Geology Reviews</i> , 2016, 72, 485-509.	2.7	33
14	Palaeobiology of red and white blood cell-like structures, collagen and cholesterol in an ichthyosaur bone. <i>Scientific Reports</i> , 2017, 7, 13776.	3.3	31
15	Zirconolite, zircon and monazite-(Ce) U-Th-Pb age constraints on the emplacement, deformation and alteration history of the Cummins Range Carbonatite Complex, Halls Creek Orogen, Kimberley region, Western Australia. <i>Mineralogy and Petrology</i> , 2016, 110, 199-222.	1.1	27
16	Ionic gold in calcrete revealed by LA-ICP-MS, SXRF and XANES. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1666-1683.	3.9	26
17	X-ray micro-computed tomography and ultrasonic velocity analysis of fractured shale as a function of effective stress. <i>Marine and Petroleum Geology</i> , 2019, 110, 472-482.	3.3	23
18	The Gove relict iron meteorite from Arnhem Land, Northern Territory, Australia. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1710-1719.	1.6	23

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19	Insights into the mechanics of en-Å@chelon sigmoidal vein formation using ultra-high resolution photogrammetry and computed tomography. <i>Journal of Structural Geology</i> , 2015, 77, 27-44.	2.3	21
20	Formation water geochemistry for carbonate reservoirs in Ordos basin, China: Implications for hydrocarbon preservation by machine learning. <i>Journal of Petroleum Science and Engineering</i> , 2020, 185, 106673.	4.2	18
21	Effects of geochemical reactions on multi-phase flow in porous media during CO2 injection. <i>Fuel</i> , 2020, 269, 117421.	6.4	18
22	Biological origin of minerals in pisoliths in the Darling Range of Western Australia. <i>Australian Journal of Earth Sciences</i> , 2011, 58, 823-833.	1.0	17
23	A Multiscale Investigation of Cross-Linked Polymer Gel Injection in Sandstone Gas Reservoirs: Implications for Water Shutoff Treatment. <i>Energy &amp; Fuels</i> , 2020, 34, 14046-14057.	5.1	17
24	The dynamics of gold in regolith change with differing environmental conditions over time. <i>Geology</i> , 2017, 45, 127-130.	4.4	16
25	Replacement reactions of copper sulphides at moderate temperature in acidic solutions. <i>Ore Geology Reviews</i> , 2020, 123, 103569.	2.7	16
26	Generation of amorphous carbon and crystallographic texture during low-temperature subseismic slip in calcite fault gouge. <i>Geology</i> , 2018, 46, 163-166.	4.4	15
27	Excessive sulphur accumulation and ionic storage behaviour identified in species of <i>Acacia</i> (Leguminosae: Mimosoideae). <i>Annals of Botany</i> , 2016, 117, 653-666.	2.9	14
28	Preparation of Samples with Both Hard and Soft Phases for Electron Backscatter Diffraction: Examples from Gold Mineralization. <i>Microscopy and Microanalysis</i> , 2013, 19, 1007-1018.	0.4	12
29	CO 2 â€Saturated Brine Injection Into Unconsolidated Sandstone: Implications for Carbon Geosequestration. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10823-10838.	3.4	10
30	Life on the edge: Microbial biomineralization in an arsenic- and lead-rich deep-sea hydrothermal vent. <i>Chemical Geology</i> , 2020, 533, 119438.	3.3	10
31	Mesozoic Hydrothermal Overprint on Carboniferous Bauxite in China. <i>Economic Geology</i> , 2021, 116, 787-800.	3.8	9
32	Reaction Coronas at Olivineâ€Plagioclase Contacts in Host Rocks from the Novaâ€Bollinger Niâ€Cuâ€Co Deposit, Albanyâ€Fraser Orogen, Western Australia: Evidence of a Magmatic to Metamorphic Continuum. <i>Journal of Petrology</i> , 2021, 62, .	2.8	9
33	Plundering Carlow Castle: First Look at a Unique Mesoarchean-Hosted Cu-Co-Au Deposit. <i>Economic Geology</i> , 2019, 114, 1021-1031.	3.8	8
34	Impact of grain-coating iron minerals on dielectric response of quartz sand and implications for ground-penetrating radar. <i>Geophysics</i> , 2011, 76, J27-J34.	2.6	6
35	Further Insights into the Performance of Silylated Polyacrylamide-Based Relative Permeability Modifiers in Carbonate Reservoirs and Influencing Factors. <i>ACS Omega</i> , 2021, 6, 13671-13683.	3.5	6
36	New insights into the genesis of IOCG deposits: From a case study of the Yinachang deposit in SW China. <i>Ore Geology Reviews</i> , 2020, 124, 103664.	2.7	4

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37	CO2 saturated brine injected into fractured shale: An X-ray micro-tomography in-situ analysis at reservoir conditions. <i>Energy Procedia</i> , 2018, 154, 125-130.	1.8	3
38	Alteration patterns linked to high-grade gold mineralization at the Wattle Dam deposit, Western Australia. <i>Ore Geology Reviews</i> , 2020, 125, 103471.	2.7	3
39	Impact of prolonged water-gas flow on the performance of polyacrylamide. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	3
40	Mineralogy and geochemistry of atypical reduction spheroids from the Tumblagooda Sandstone, Western Australia. <i>Sedimentology</i> , 2020, 67, 677-698.	3.1	2
41	Interface Sampling and Indicator Minerals for Detecting the Footprint of the Lancefield North Gold Deposit under the Permian Glacial Cover in Western Australia. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1131.	2.0	2
42	Morphology, composition and dissolution of chromite in the Goro lateritic nickel deposit, New Caledonia: Insight into ophiolite and laterite genesis. <i>Ore Geology Reviews</i> , 2022, 143, 104752.	2.7	2
43	Reactive Flow in Unconsolidated Sandstone: Application to Carbon Geosequestration. , 2018, , .		1
44	Sample preparation for rock wettability studies via atomic force microscopy. <i>APPEA Journal</i> , 2021, 61, 216.	0.2	1
45	Changes in multi-phase flow properties of carbonate porous media during CO2 injection. <i>APPEA Journal</i> , 2020, 60, 672.	0.2	0