

# Vernon R Phoenix

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

5,000  
citations

147801

31  
h-index

175258

52  
g-index

53  
all docs

53  
docs citations

53  
times ranked

5193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduction of Environmental Impacts Due to Using Permeable Pavements to Harvest Stormwater. <i>Water</i> (Switzerland), 2020, 12, 2840.	2.7	9
2	Examination of the ocean as a source for atmospheric microplastics. <i>PLoS ONE</i> , 2020, 15, e0232746.	2.5	198
3	Microscopy and elemental analysis characterisation of microplastics in sediment of a freshwater urban river in Scotland, UK. <i>Environmental Science and Pollution Research</i> , 2019, 26, 12491-12504.	5.3	154
4	Atmospheric transport and deposition of microplastics in a remote mountain catchment. <i>Nature Geoscience</i> , 2019, 12, 339-344.	12.9	1,193
5	The effect of displacement distribution asymmetry on the accuracy of phase-shift velocimetry in porous media. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 130-133.	4.4	3
6	Microscale Analysis of Fractured Rock Sealed With Microbially Induced CaCO <sub>3</sub> Precipitation: Influence on Hydraulic and Mechanical Performance. <i>Water Resources Research</i> , 2018, 54, 8295-8308.	4.2	42
7	Immobilization of nanoparticles by occlusion into microbial calcite. <i>Chemical Geology</i> , 2017, 453, 72-79.	3.3	4
8	Micro- and Nanoplastic Pollution of Freshwater and Wastewater Treatment Systems. <i>Springer Science Reviews</i> , 2017, 5, 19-30.	1.3	102
9	Accurate phase-shift velocimetry in rock. <i>Journal of Magnetic Resonance</i> , 2016, 267, 43-53.	2.1	9
10	Biominerall shell formation under ocean acidification: a shift from order to chaos. <i>Scientific Reports</i> , 2016, 6, 21076.	3.3	56
11	Influence of biofilms on heavy metal immobilization in sustainable urban drainage systems (SuDS). <i>Environmental Technology</i> (United Kingdom), 2015, 36, 2803-2814.	2.2	10
12	Ocean acidification and temperature increase impact mussel shell shape and thickness: problematic for protection?. <i>Ecology and Evolution</i> , 2015, 5, 4875-4884.	1.9	55
13	Nanoparticle transport in saturated porous medium using magnetic resonance imaging. <i>Chemical Engineering Journal</i> , 2015, 266, 156-162.	12.7	14
14	Metagenomic Sequencing Unravels Gene Fragments with Phylogenetic Signatures of O <sub>2</sub> -Tolerant NiFe Membrane-Bound Hydrogenases in Lacustrine Sediment. <i>Current Microbiology</i> , 2015, 71, 296-302.	2.2	1
15	Characterization of nanoparticle transport through quartz and dolomite gravels by magnetic resonance imaging. <i>International Journal of Environmental Science and Technology</i> , 2015, 12, 3373-3384.	3.5	7
16	Ocean acidification alters the material properties of <i>Mytilus edulis</i> shells. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141227.	3.4	79
17	Optically Trapped Bacteria Pairs Reveal Discrete Motile Response to Control Aggregation upon Cellâ€™Cell Approach. <i>Current Microbiology</i> , 2014, 69, 669-674.	2.2	15
18	Transport of <i>Sporosarcina pasteurii</i> in sandstone and its significance for subsurface engineering technologies. <i>Applied Geochemistry</i> , 2014, 42, 38-44.	3.0	40

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19	Ocean acidification reduces the crystallographic control in juvenile mussel shells. <i>Journal of Structural Biology</i> , 2014, 188, 39-45.	2.8	81
20	Ocean acidification impacts mussel control on biomineralisation. <i>Scientific Reports</i> , 2014, 4, 6218.	3.3	119
21	Magnetic Resonance Imaging of Mass Transport and Structure Inside a Phototrophic Biofilm. <i>Current Microbiology</i> , 2013, 66, 456-461.	2.2	12
22	A Field and Modeling Study of Fractured Rock Permeability Reduction Using Microbially Induced Calcite Precipitation. <i>Environmental Science &amp; Technology</i> , 2013, 47, 13637-13643.	10.0	178
23	Monitoring bacterially induced calcite precipitation in porous media using magnetic resonance imaging and flow measurements. <i>Journal of Contaminant Hydrology</i> , 2013, 152, 35-43.	3.3	26
24	Treatment of heavy metals by iron oxide coated and natural gravel media in Sustainable urban Drainage Systems. <i>Water Science and Technology</i> , 2013, 68, 674-680.	2.5	15
25	Erosion of biofilm-bound fluvial sediments. <i>Nature Geoscience</i> , 2013, 6, 770-774.	12.9	65
26	Investigation of Nanoparticle Transport Inside Coarse-Grained Geological Media Using Magnetic Resonance Imaging. <i>Environmental Science &amp; Technology</i> , 2012, 46, 360-366.	10.0	15
27	Controls on the rate of ureolysis and the morphology of carbonate precipitated by <i>S. Pasteurii</i> biofilms and limits due to bacterial encapsulation. <i>Ecological Engineering</i> , 2012, 41, 32-40.	3.6	94
28	Microbially mediated plugging of porous media and the impact of differing injection strategies. <i>Ecological Engineering</i> , 2012, 42, 270-278.	3.6	109
29	Comparison of rates of ureolysis between <i>Sporosarcina pasteurii</i> and an indigenous groundwater community under conditions required to precipitate large volumes of calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3290-3301.	3.9	152
30	Application of Paramagnetically Tagged Molecules for Magnetic Resonance Imaging of Biofilm Mass Transport Processes. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4027-4036.	3.1	16
31	Impact of growth environment and physiological state on metal immobilization by <i>Pseudomonas aeruginosa</i> PAO1. <i>Canadian Journal of Microbiology</i> , 2010, 56, 527-538.	1.7	11
32	Benefits of bacterial biomineralization. <i>Geobiology</i> , 2008, 6, 303-308.	2.4	54
33	Bacterial biomineralization: Where to from here?. <i>Geobiology</i> , 2008, 6, 298-302.	2.4	20
34	Magnetic Resonance Imaging of Structure, Diffusivity, and Copper Immobilization in a Phototrophic Biofilm. <i>Applied and Environmental Microbiology</i> , 2008, 74, 4934-4943.	3.1	35
35	Magnetic resonance imaging (MRI) of heavy-metal transport and fate in an artificial biofilm. <i>Mineralogical Magazine</i> , 2008, 72, 483-486.	1.4	9
36	Influence of Lipopolysaccharide on the Surface Proton-Binding Behavior of <i>Shewanella</i> spp.. <i>Current Microbiology</i> , 2007, 55, 152-157.	2.2	13

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37	Chilean high-altitude hot-spring sinters: a model system for UV screening mechanisms by early Precambrian cyanobacteria. <i>Geobiology</i> , 2006, 4, 15-28.	2.4	112
38	Bacterial S-layer preservation and rare arsenic-antimony-sulphide bioimmobilization in siliceous sediments from Champagne Pool hot spring, Waiotapu, New Zealand. <i>Journal of the Geological Society</i> , 2005, 162, 323-331.	2.1	35
39	The Microbial Role in Hot Spring Silicification. <i>Ambio</i> , 2004, 33, 552-558.	5.5	131
40	Characterization of Metal-Cyanobacteria Sorption Reactions: A Combined Macroscopic and Infrared Spectroscopic Investigation. <i>Environmental Science &amp; Technology</i> , 2004, 38, 775-782.	10.0	347
41	The dynamics of cyanobacterial silicification: an infrared micro-spectroscopic investigation. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 743-757.	3.9	124
42	Molecular characterization of cyanobacterial silicification using synchrotron infrared micro-spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 729-741.	3.9	156
43	Kinetics of calcite precipitation induced by ureolytic bacteria at 10 to 20°C in artificial groundwater. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1701-1710.	3.9	226
44	The Microbial Role in Hot Spring Silicification. <i>Ambio</i> , 2004, 33, 552.	5.5	7
45	The effect of cyanobacteria on silica precipitation at neutral pH: implications for bacterial silicification in geothermal hot springs. <i>Chemical Geology</i> , 2003, 199, 83-90.	3.3	150
46	Experimental study of iron and silica immobilization by bacteria in mixed Fe-Si systems: implications for microbial silicification in hot springs. <i>Canadian Journal of Earth Sciences</i> , 2003, 40, 1669-1678.	1.3	59
47	Characterization and Implications of the Cell Surface Reactivity of <i>Calothrix</i> sp. Strain KC97. <i>Applied and Environmental Microbiology</i> , 2002, 68, 4827-4834.	3.1	121
48	Microbial-silica interactions in Icelandic hot spring sinter: possible analogues for some Precambrian siliceous stromatolites. <i>Sedimentology</i> , 2001, 48, 415-433.	3.1	237
49	Role of biomineralization as an ultraviolet shield: Implications for Archean life. <i>Geology</i> , 2001, 29, 823.	4.4	103
50	Cyanobacterial viability during hydrothermal biomineralisation. <i>Chemical Geology</i> , 2000, 169, 329-338.	3.3	142
51	Biosilicification: the role of cyanobacteria in silica sinter deposition. , 0, , 131-150.		18