

# Gordon G Southam

## List of Publications by Citations

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223  
papers

9,537  
citations

51  
h-index

91  
g-index

233  
ext. papers

10,912  
ext. citations

5.1  
avg, IF

6.16  
L-index

#	Paper	IF	Citations
223	Electrical transport along bacterial nanowires from <i>Shewanella oneidensis</i> MR-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 18127-31	11.5	452
222	Environmental genomics reveals a single-species ecosystem deep within Earth. <i>Science</i> , <b>2008</b> , 322, 275-83	33.3	344
221	Could bacteria have formed the Precambrian banded iron formations?. <i>Geology</i> , <b>2002</b> , 30, 1079	5	344
220	Biosynthesis of silver nanoparticles by filamentous cyanobacteria from a silver(I) nitrate complex. <i>Langmuir</i> , <b>2007</b> , 23, 2694-9	4	317
219	Morphology of gold nanoparticles synthesized by filamentous cyanobacteria from gold(I)-thiosulfate and gold(III)-chloride complexes. <i>Langmuir</i> , <b>2006</b> , 22, 2780-7	4	286
218	Mechanisms of gold bioaccumulation by filamentous cyanobacteria from gold(III)-chloride complex. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 6304-9	10.3	251
217	Mechanisms of gold biomineralization in the bacterium <i>Cupriavidus metallidurans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 17757-62	11.5	242
216	Bacterial growth at -15 °C; molecular insights from the permafrost bacterium <i>Planococcus halocryophilus</i> Or1. <i>ISME Journal</i> , <b>2013</b> , 7, 1211-26	11.9	211
215	Gold biomineralization by a metallophore from a gold-associated microbe. <i>Nature Chemical Biology</i> , <b>2013</b> , 9, 241-3	11.7	171
214	The geomicrobiology of gold. <i>ISME Journal</i> , <b>2007</b> , 1, 567-84	11.9	170
213	Impact-generated hydrothermal systems on Earth and Mars. <i>Icarus</i> , <b>2013</b> , 224, 347-363	3.8	166
212	Carbon Dioxide Fixation within Mine Wastes of Ultramafic-Hosted Ore Deposits: Examples from the Clinton Creek and Cassiar Chrysotile Deposits, Canada. <i>Economic Geology</i> , <b>2009</b> , 104, 95-112	4.3	158
211	Bioaccumulation of gold by sulfate-reducing bacteria cultured in the presence of gold(I)-thiosulfate complex. <i>Geochimica Et Cosmochimica Acta</i> , <b>2006</b> , 70, 3646-3661	5.5	156
210	The in vitro formation of placer gold by bacteria. <i>Geochimica Et Cosmochimica Acta</i> , <b>1994</b> , 58, 4527-4530	5.5	148
209	Desulfotomaculum and Methanobacterium spp. dominate a 4- to 5-kilometer-deep fault. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 8773-83	4.8	137
208	The impact of sediment fecal coliform reservoirs on seasonal water quality in Oak Creek, ARIZONA. <i>Water Research</i> , <b>1999</b> , 33, 2163-2171	12.5	136
207	Implications of a 3.472-3.333 Gyr-old subaerial microbial mat from the Barberton greenstone belt, South Africa for the UV environmental conditions on the early Earth. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2006</b> , 361, 1857-75	5.8	133

206	Synthesis of platinum nanoparticles by reaction of filamentous cyanobacteria with platinum(IV)-chloride complex. <i>Langmuir</i> , <b>2006</b> , 22, 7318-23	4	132
205	Characterizing the effect of carbon steel exposure in sulfide containing solutions to microbially induced corrosion. <i>Corrosion Science</i> , <b>2011</b> , 53, 955-960	6.8	125
204	Relative contributions of abiotic and biological factors in Fe(II) oxidation in mine drainage. <i>Applied Geochemistry</i> , <b>1999</b> , 14, 511-530	3.5	120
203	Carbon Mineralization: From Natural Analogues to Engineered Systems. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2013</b> , 77, 305-360	7.1	119
202	The occurrence of sulfur and phosphorus within bacterially derived crystalline and pseudocrystalline octahedral gold formed in vitro. <i>Geochimica Et Cosmochimica Acta</i> , <b>1996</b> , 60, 4369-4376	5.5	118
201	Nanoparticle Factories: Biofilms hold the key to gold dispersion and nugget formation. <i>Geology</i> , <b>2010</b> , 38, 843-846	5	117
200	The Geomicrobiology of Ore Deposits. <i>Economic Geology</i> , <b>2005</b> , 100, 1067-1084	4.3	115
199	A high-resolution chemical and structural study of framboidal pyrite formed within a low-temperature bacterial biofilm. <i>Geobiology</i> , <b>2008</b> , 6, 471-80	4.3	112
198	Low temperature anaerobic bacterial diagenesis of ferrous monosulfide to pyrite. <i>Geochimica Et Cosmochimica Acta</i> , <b>1999</b> , 63, 2019-2023	5.5	109
197	Synthesis of palladium nanoparticles by reaction of filamentous cyanobacterial biomass with a palladium(II) chloride complex. <i>Langmuir</i> , <b>2007</b> , 23, 8982-7	4	107
196	Biologically induced mineralization of dypingite by cyanobacteria from an alkaline wetland near Atlin, British Columbia, Canada. <i>Geochemical Transactions</i> , <b>2007</b> , 8, 13	3	98
195	The hydromagnesite playas of Atlin, British Columbia, Canada: A biogeochemical model for CO2 sequestration. <i>Chemical Geology</i> , <b>2009</b> , 260, 286-300	4.2	97
194	Enumeration of Thiobacilli within pH-Neutral and Acidic Mine Tailings and Their Role in the Development of Secondary Mineral Soil. <i>Applied and Environmental Microbiology</i> , <b>1992</b> , 58, 1904-12	4.8	93
193	Shewanella oneidensis MR-1 bacterial nanowires exhibit p-type, tunable electronic behavior. <i>Nano Letters</i> , <b>2013</b> , 13, 2407-11	11.5	90
192	The Biogeochemistry of Gold. <i>Elements</i> , <b>2009</b> , 5, 303-307	3.8	87
191	Production and characterization of monoclonal antibodies against serotype strains of Pseudomonas aeruginosa. <i>Infection and Immunity</i> , <b>1987</b> , 55, 1051-7	3.7	87
190	Temporal Shifts in the Geochemistry and Microbial Community Structure of an Ultradeep Mine Borehole Following Isolation. <i>Geomicrobiology Journal</i> , <b>2003</b> , 20, 517-548	2.5	84
189	Offsetting of CO2 emissions by air capture in mine tailings at the Mount Keith Nickel Mine, Western Australia: Rates, controls and prospects for carbon neutral mining. <i>International Journal of Greenhouse Gas Control</i> , <b>2014</b> , 25, 121-140	4.2	83

188	A critical stage in the formation of acid mine drainage: Colonization of pyrite by <i>Acidithiobacillus ferrooxidans</i> under pH-neutral conditions. <i>Geobiology</i> , <b>2003</b> , 1, 81-90	4.3	83
187	Anaerobic methane oxidation coupled to manganese reduction by members of the Methanoperedenaceae. <i>ISME Journal</i> , <b>2020</b> , 14, 1030-1041	11.9	83
186	Nickel sulfide, iron-nickel sulfide and iron sulfide precipitation by a newly isolated <i>Desulfotomaculum</i> species and its relation to nickel resistance. <i>FEMS Microbiology Ecology</i> , <b>1994</b> , 14, 121-132	4.3	81
185	Erratum to Implications of a 3.472B.333-Gyr-old subaerial microbial mat from the Barberton greenstone belt, South Africa for the UV environmental conditions on the early Earth. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2011</b> , 366, 464-464	5.8	78
184	The Origin and Age of Biogeochemical Trends in Deep Fracture Water of the Witwatersrand Basin, South Africa. <i>Geomicrobiology Journal</i> , <b>2006</b> , 23, 369-414	2.5	72
183	The effect of thiosulfate-oxidizing bacteria on the stability of the gold-thiosulfate complex. <i>Geochimica Et Cosmochimica Acta</i> , <b>2005</b> , 69, 3759-3772	5.5	71
182	Microbially mediated mineral carbonation: roles of phototrophy and heterotrophy. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 9061-8	10.3	68
181	Supergene gold transformation: Biogenic secondary and nano-particulate gold from arid Australia. <i>Chemical Geology</i> , <b>2012</b> , 320-321, 17-31	4.2	66
180	Isolation, characterization, and cellular insertion of the flagella from two strains of the archaeobacterium <i>Methanospirillum hungatei</i> . <i>Journal of Bacteriology</i> , <b>1990</b> , 172, 3221-8	3.5	66
179	Platinum in Earth surface environments. <i>Earth-Science Reviews</i> , <b>2014</b> , 131, 1-21	10.2	65
178	Implications of in situ calcification for photosynthesis in a ~ 3.3 Ga-old microbial biofilm from the Barberton greenstone belt, South Africa. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 310, 468-479	5.3	64
177	Carbon sequestration via carbonic anhydrase facilitated magnesium carbonate precipitation. <i>International Journal of Greenhouse Gas Control</i> , <b>2013</b> , 16, 145-155	4.2	62
176	Biomineralization of gold in biofilms of <i>Cupriavidus metallidurans</i> . <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 2628-35	10.3	60
175	The preservation and degradation of filamentous bacteria and biomolecules within iron oxide deposits at Rio Tinto, Spain. <i>Geobiology</i> , <b>2011</b> , 9, 233-49	4.3	60
174	Bioleaching of ultramafic tailings by <i>acidithiobacillus</i> spp. for CO <sub>2</sub> sequestration. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 456-62	10.3	57
173	Subarctic weathering of mineral wastes provides a sink for atmospheric CO <sub>2</sub> . <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 7727-36	10.3	56
172	Modern lacustrine microbialites: Towards a synthesis of aqueous and carbonate geochemistry and mineralogy. <i>Earth-Science Reviews</i> , <b>2016</b> , 162, 338-363	10.2	51
171	Biogeochemical phenomena induced by bacteria within sulfidic mine tailings. <i>Journal of Industrial Microbiology</i> , <b>1995</b> , 14, 178-185		47

170	Geobiological Cycling of Gold: From Fundamental Process Understanding to Exploration Solutions. <i>Minerals (Basel, Switzerland)</i> , <b>2013</b> , 3, 367-394	2.4	46
169	A structural comparison of bacterial microfossils vs. 'nanobacteria' and nanofossils. <i>Earth-Science Reviews</i> , <b>1999</b> , 48, 251-264	10.2	46
168	Secondary gold structures: Relics of past biogeochemical transformations and implications for colloidal gold dispersion in subtropical environments. <i>Chemical Geology</i> , <b>2017</b> , 450, 154-164	4.2	44
167	Effect of the cyanide-producing bacterium <i>Chromobacterium violaceum</i> on ultraflat Au surfaces. <i>Chemical Geology</i> , <b>2009</b> , 265, 313-320	4.2	44
166	Acidic Microenvironments in Waste Rock Characterized by Neutral Drainage: Bacteria-Mineral Interactions at Sulfide Surfaces. <i>Minerals (Basel, Switzerland)</i> , <b>2014</b> , 4, 170-190	2.4	42
165	The role of Blebbing in overcoming the hydrophobic barrier during biooxidation of elemental sulfur by <i>Thiobacillus thiooxidans</i> . <i>Chemical Geology</i> , <b>2000</b> , 169, 425-433	4.2	41
164	Biological role in the transformation of platinum-group mineral grains. <i>Nature Geoscience</i> , <b>2016</b> , 9, 294-298	4.3	40
163	Strategizing Carbon-Neutral Mines: A Case for Pilot Projects. <i>Minerals (Basel, Switzerland)</i> , <b>2014</b> , 4, 399-414	4.1	40
162	The Role of Bacteria in the Supergene Environment of the Morenci Porphyry Copper Deposit, Greenlee County, Arizona. <i>Economic Geology</i> , <b>2006</b> , 101, 59-70	4.3	40
161	Metagenomic analysis reveals that modern microbialites and polar microbial mats have similar taxonomic and functional potential. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 966	5.7	38
160	A depositional model for hydromagnesite-magnesite playas near Atlin, British Columbia, Canada. <i>Sedimentology</i> , <b>2014</b> , 61, 1701-1733	3.3	38
159	Photosynthetic isotope biosignatures in laminated micro-stromatolitic and non-laminated nodules associated with modern, freshwater microbialites in Pavilion Lake, B.C.. <i>Chemical Geology</i> , <b>2010</b> , 274, 56-67	4.2	38
158	The Deposition of Elemental Gold from Gold(I)-Thiosulfate Complexes Mediated by Sulfate-Reducing Bacterial Conditions. <i>Economic Geology</i> , <b>2007</b> , 102, 109-126	4.3	38
157	Structural and Chemical Characterization of a Natural Fracture Surface from 2.8 Kilometers Below Land Surface: Biofilms in the Deep Subsurface. <i>Geomicrobiology Journal</i> , <b>2006</b> , 23, 443-452	2.5	38
156	Microbially Accelerated Carbonate Mineral Precipitation as a Strategy for in Situ Carbon Sequestration and Rehabilitation of Asbestos Mine Sites. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 1419-27	10.3	36
155	High-resolution topography of the S-layer sheath of the archaeobacterium <i>Methanospirillum hungatei</i> provided by scanning tunneling microscopy. <i>Journal of Bacteriology</i> , <b>1990</b> , 172, 6589-95	3.5	36
154	A greenhouse-scale photosynthetic microbial bioreactor for carbon sequestration in magnesium carbonate minerals. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 9142-51	10.3	35
153	Transmission electron microscopy, scanning tunneling microscopy, and atomic force microscopy of the cell envelope layers of the archaeobacterium <i>Methanospirillum hungatei</i> GP1. <i>Journal of Bacteriology</i> , <b>1993</b> , 175, 1946-55	3.5	35

152	Nocturnal production of endospores in natural populations of epulopiscium-like surgeonfish symbionts. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 7460-70	3.5	34
151	Examination of Lipopolysaccharide (O-Antigen) Populations of Thiobacillus ferrooxidans from Two Mine Tailings. <i>Applied and Environmental Microbiology</i> , <b>1993</b> , 59, 1283-8	4.8	34
150	Deciphering Biosignatures in Planetary Contexts. <i>Astrobiology</i> , <b>2019</b> , 19, 1075-1102	3.7	33
149	Bacterial nanowires: conductive as silicon, soft as polymer. <i>Soft Matter</i> , <b>2011</b> , 7, 6617	3.6	33
148	Actively forming Kuroko-type volcanic-hosted massive sulfide (VHMS) mineralization at Iheya North, Okinawa Trough, Japan. <i>Ore Geology Reviews</i> , <b>2017</b> , 84, 20-41	3.2	32
147	Characterization of the cell wall of the sheathed methanogen Methanospirillum hungatei GP1 as an S layer. <i>Journal of Bacteriology</i> , <b>1993</b> , 175, 7550-60	3.5	32
146	Evidence of biogeochemical processes in iron duricrust formation. <i>Journal of South American Earth Sciences</i> , <b>2016</b> , 71, 131-142	2	32
145	Bioconversion of coal: new insights from a core flooding study. <i>RSC Advances</i> , <b>2014</b> , 4, 22779	3.7	30
144	In situ recovery of uranium [the microbial influence. <i>Hydrometallurgy</i> , <b>2014</b> , 150, 236-244	4	30
143	Microbial architecture of environmental sulfur processes: a novel syntrophic sulfur-metabolizing consortia. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 8781-6	10.3	30
142	The in-vitro growth of gold grains. <i>Geology</i> , <b>2015</b> , 43, 79-82	5	29
141	Minerals as Substrates for Life: The Prokaryotic View. <i>Elements</i> , <b>2012</b> , 8, 101-106	3.8	29
140	Characterization of halophiles in natural MgSO <sub>4</sub> salts and laboratory enrichment samples: Astrobiological implications for Mars. <i>Planetary and Space Science</i> , <b>2010</b> , 58, 599-615	2	29
139	Production of magnesium-rich solutions by acid leaching of chrysotile: A precursor to field-scale deployment of microbially enabled carbonate mineral precipitation. <i>Chemical Geology</i> , <b>2015</b> , 413, 119-131 <sup>2</sup>	4.2	28
138	Mineralogical, Chemical and Biological Characterization of an Anaerobic Biofilm Collected from a Borehole in a Deep Gold Mine in South Africa. <i>Geomicrobiology Journal</i> , <b>2007</b> , 24, 491-504	2.5	27
137	Modern carbonate microbialites from an asbestos open pit pond, Yukon, Canada. <i>Geobiology</i> , <b>2011</b> , 9, 180-95	4.3	26
136	Sulfur isotope enrichment during maintenance metabolism in the thermophilic sulfate-reducing bacterium <i>Desulfotomaculum putei</i> . <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 5621-30	4.8	26
135	Accelerating Mineral Carbonation in Ultramafic Mine Tailings via Direct CO <sub>2</sub> Reaction and Heap Leaching with Potential for Base Metal Enrichment and Recovery. <i>Economic Geology</i> , <b>2020</b> , 115, 303-323 <sup>4.3</sup>	4.3	25

134	Fate of transition metals during passive carbonation of ultramafic mine tailings via air capture with potential for metal resource recovery. <i>International Journal of Greenhouse Gas Control</i> , <b>2018</b> , 71, 155-167	4.2	25
133	Proteomic responses to gold(III)-toxicity in the bacterium <i>Cupriavidus metallidurans</i> CH34. <i>Metallomics</i> , <b>2016</b> , 8, 1204-1216	4.5	25
132	Floating Gold Grains and Nanophase Particles Produced from the Biogeochemical Weathering of a Gold-Bearing Ore. <i>Economic Geology</i> , <b>2016</b> , 111, 1485-1494	4.3	25
131	Precipitation of gold by the reaction of aqueous gold(III) chloride with cyanobacteria at 2580 °C studied by X-ray absorption spectroscopy. <i>Canadian Journal of Chemistry</i> , <b>2007</b> , 85, 651-659	0.9	25
130	Microbiologically Influenced Corrosion Capability of Bacteria Isolated from Yucca Mountain. <i>Corrosion</i> , <b>2004</b> , 60, 64-74	1.8	25
129	Pyrite discs in coal: Evidence for fossilized bacterial colonies. <i>Geology</i> , <b>2001</b> , 29, 47	5	25
128	Experimental Deployment of Microbial Mineral Carbonation at an Asbestos Mine: Potential Applications to Carbon Storage and Tailings Stabilization. <i>Minerals (Basel, Switzerland)</i> , <b>2017</b> , 7, 191	2.4	24
127	Structural and Chemical Characterization of Placer Gold Grains: Implications for Bacterial Contributions to Grain Formation. <i>Geomicrobiology Journal</i> , <b>2015</b> , 32, 158-169	2.5	24
126	Desert Potholes: Ephemeral Aquatic Microsystems. <i>Aquatic Geochemistry</i> , <b>2005</b> , 11, 279-302	1.7	24
125	Geochemical and mineralogical constraints in iron ore tailings limit soil formation for direct phytostabilization. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 192-202	10.2	24
124	Potential for offsetting diamond mine carbon emissions through mineral carbonation of processed kimberlite: an assessment of De Beers mine sites in South Africa and Canada. <i>Mineralogy and Petrology</i> , <b>2018</b> , 112, 755-765	1.6	24
123	Microscopic characterization of the bacterial cell envelope of <i>Planococcus halocryophilus</i> Or1 during subzero growth at -15 °C. <i>Polar Biology</i> , <b>2016</b> , 39, 701-712	2	23
122	Structural characterization of the hydrocarbon degrading bacteria-bil interface: implications for bioremediation. <i>International Biodeterioration and Biodegradation</i> , <b>2001</b> , 47, 197-201	4.8	23
121	Biogeochemical processes in canga ecosystems: Armoring of iron ore against erosion and importance in iron duricrust restoration in Brazil. <i>Ore Geology Reviews</i> , <b>2019</b> , 107, 573-586	3.2	22
120	The Early Record of Life. <i>Geophysical Monograph Series</i> , <b>2006</b> , 283-304	1.1	22
119	Hydrotalcites and hydrated Mg-carbonates as carbon sinks in serpentinite mineral wastes from the Woodsreef chrysotile mine, New South Wales, Australia: Controls on carbonate mineralogy and efficiency of CO2 air capture in mine tailings. <i>International Journal of Greenhouse Gas Control</i> , <b>2018</b> , 79, 38-60	4.2	22
118	Bioaccumulation of Gold by Filamentous Cyanobacteria Between 25 and 200°C. <i>Geomicrobiology Journal</i> , <b>2006</b> , 23, 591-597	2.5	21
117	Survival and Growth of <i>Yersinia enterocolitica</i> in Egg Washwater. <i>Journal of Food Protection</i> , <b>1987</b> , 50, 103-107	2.5	21



116	Bacterial Surface-Mediated Mineral Formation	257-276		21
115	Investigating intra-bone isotopic variations in bioapatite using IR-laser ablation and micromilling: Implications for identifying diagenesis?. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2008</b> , 266, 190-199		2.9	20
114	Biogeochemical Cycling of Silver in Acidic, Weathering Environments. <i>Minerals (Basel, Switzerland)</i> , <b>2017</b> , 7, 218		2.4	19
113	Carbonate precipitation under bulk acidic conditions as a potential biosignature for searching life on Mars. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 351-352, 13-26		5.3	19
112	Stars of the terrestrial deep subsurface: a novel 'star-shaped' bacterial morphotype from a South African platinum mine. <i>Geobiology</i> , <b>2008</b> , 6, 325-30		4.3	19
111	Characterization of novel, phenol-soluble polypeptides which confer rigidity to the sheath of <i>Methanospirillum hungatei</i> GP1. <i>Journal of Bacteriology</i> , <b>1992</b> , 174, 935-46		3.5	19
110	The Geomicrobiology of Supergene Metal Deposits. <i>Elements</i> , <b>2015</b> , 11, 337-342		3.8	18
109	Microstructure variability in freshwater microbialites, Pavilion Lake, Canada. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2013</b> , 392, 62-70		2.9	18
108	Advanced biofilm staining techniques for TEM and SEM in geomicrobiology: Implications for visualizing EPS architecture, mineral nucleation, and microfossil generation. <i>Chemical Geology</i> , <b>2018</b> , 498, 115-127		4.2	18
107	Nesquehonite sequesters transition metals and CO <sub>2</sub> during accelerated carbon mineralisation. <i>International Journal of Greenhouse Gas Control</i> , <b>2016</b> , 55, 73-81		4.2	17
106	The effect of iron-oxidising bacteria on the stability of gold (I) thiosulphate complex. <i>Chemical Geology</i> , <b>2014</b> , 376, 52-60		4.2	17
105	Field-based accounting of CO <sub>2</sub> sequestration in ultramafic mine wastes using portable X-ray diffraction. <i>American Mineralogist</i> , <b>2017</b> , 102, 1302-1310		2.9	16
104	Organic Matter Amendment and Plant Colonization Drive Mineral Weathering, Organic Carbon Sequestration, and Water-Stable Aggregation in Magnetite Fe Ore Tailings. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 13720-13731		10.3	16
103	The Organization of the Paracrystalline Multilayered Spacer-Plugs of <i>Methanospirillum hungatei</i> . <i>Journal of Structural Biology</i> , <b>1994</b> , 112, 160-171		3.4	16
102	Dissolution and immunochemical analysis of the sheath of the archaeobacterium <i>Methanospirillum hungatei</i> GP1. <i>Journal of Bacteriology</i> , <b>1991</b> , 173, 6213-22		3.5	16
101	Microbial Diversity in Actively Forming Iron Oxides from Weathered Banded Iron Formation Systems. <i>Microbes and Environments</i> , <b>2018</b> , 33, 385-393		2.6	16
100	The immobilization of gold from gold (III) chloride by a halophilic sulphate-reducing bacterial consortium. <i>Geological Society Special Publication</i> , <b>2015</b> , 393, 249-263		1.7	15
99	The Geology and Habitability of Terrestrial Planets: Fundamental Requirements for Life. <i>Space Science Reviews</i> , <b>2007</b> , 129, 7-34		7.5	15



98	Scanning force microscopy studies of the colonization and growth of <i>A. ferrooxidans</i> on the surface of pyrite minerals. <i>Scanning</i> , <b>2005</b> , 27, 136-40	1.6	15
97	A widely distributed hydrogenase oxidises atmospheric H during bacterial growth. <i>ISME Journal</i> , <b>2020</b> , 14, 2649-2658	11.9	15
96	The effect of gram-positive ( <i>Desulfosporosinus orientis</i> ) and gram-negative ( <i>Desulfovibrio desulfuricans</i> ) sulfate-reducing bacteria on iron sulfide mineral precipitation. <i>Canadian Journal of Microbiology</i> , <b>2018</b> , 64, 629-637	3.2	15
95	Bioleaching of waste material from the Salobo mine, Brazil: Recovery of refractory copper from Cu hosted in silicate minerals. <i>Chemical Geology</i> , <b>2018</b> , 498, 72-82	4.2	15
94	Multi-technique investigation reveals new mineral, chemical, and textural heterogeneity in the Tagish Lake C2 chondrite. <i>Planetary and Space Science</i> , <b>2010</b> , 58, 1347-1364	2	14
93	MORPHOLOGICAL AND CHEMICAL STUDY OF PLACER GOLD FROM THE SAN LUIS RANGE, ARGENTINA. <i>Canadian Mineralogist</i> , <b>2004</b> , 42, 169-182	0.7	14
92	Performance of a sulfidogenic bioreactor inoculated with indigenous acidic communities for treating an extremely acidic mine water. <i>Minerals Engineering</i> , <b>2019</b> , 131, 370-375	4.9	14
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