

# David T Rickard

## List of Publications by Year in descending order

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141  
papers

10,453  
citations

38720

50  
h-index

31818

101  
g-index

157  
all docs

157  
docs citations

157  
times ranked

7251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry of Iron Sulfides. <i>Chemical Reviews</i> , 2007, 107, 514-562.	23.0	1,209
2	The chemistry of the hydrogen sulfide and iron sulfide systems in natural waters. <i>Earth-Science Reviews</i> , 1987, 24, 1-42.	4.0	576
3	Acid volatile sulfide (AVS). <i>Marine Chemistry</i> , 2005, 97, 141-197.	0.9	503
4	Kinetics of pyrite formation by the H <sub>2</sub> S oxidation of iron (II) monosulfide in aqueous solutions between 25 and 125Å°C: The rate equation. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 115-134.	1.6	388
5	Kinetics of pyrite formation by the H <sub>2</sub> S oxidation of iron (II) monosulfide in aqueous solutions between 25 and 125Å°C: The mechanism. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 135-147.	1.6	344
6	Framboidal pyrite formation via the oxidation of iron (II) monosulfide by hydrogen sulphide. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 2665-2672.	1.6	333
7	Determination of natural Cu-isotope variation by plasma-source mass spectrometry: implications for use as geochemical tracers. <i>Chemical Geology</i> , 2000, 163, 139-149.	1.4	281
8	Removal of dissolved oxygen from water: A comparison of four common techniques. <i>Talanta</i> , 1994, 41, 211-215.	2.9	250
9	The solubility of FeS. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5779-5789.	1.6	227
10	Kinetics of FeS precipitation: Part 1. Competing reaction mechanisms. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 4367-4379.	1.6	223
11	The structure of disordered mackinawite. <i>American Mineralogist</i> , 2003, 88, 2007-2015.	0.9	220
12	Arsenic mobility in the ambient sulfidic environment: Sorption of arsenic(V) and arsenic(III) onto disordered mackinawite. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3483-3492.	1.6	211
13	Temperature dependence of calcite dissolution kinetics between 1 and 62Å°C at pH 2.7 to 8.4 in aqueous solutions. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 485-493.	1.6	207
14	Experimental study of the copper isotope fractionation between aqueous Cu(II) and covellite, CuS. <i>Chemical Geology</i> , 2004, 209, 259-269.	1.4	201
15	Experimental syntheses of framboidsâ€”a review. <i>Earth-Science Reviews</i> , 2005, 71, 147-170.	4.0	191
16	Metal Sulfide Cluster Complexes and their Biogeochemical Importance in the Environment. <i>Journal of Nanoparticle Research</i> , 2005, 7, 389-407.	0.8	191
17	Fe isotope fractionation on FeS formation in ambient aqueous solution. <i>Earth and Planetary Science Letters</i> , 2005, 236, 430-442.	1.8	181
18	Determination of Metal (Bi)Sulfide Stability Constants of Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> , and Zn <sup>2+</sup> by Voltammetric Methods. <i>Environmental Science &amp; Technology</i> , 1996, 30, 671-679.	4.6	167

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19	Calcite dissolution kinetics: Surface speciation and the origin of the variable pH dependence. <i>Chemical Geology</i> , 1984, 42, 119-136.	1.4	151
20	The origin of framboids. <i>Lithos</i> , 1970, 3, 269-293.	0.6	150
21	Surface chemistry of disordered mackinawite (FeS). <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3469-3481.	1.6	149
22	Peer Reviewed: Chemical Dynamics of Sedimentary Acid Volatile Sulfide. <i>Environmental Science &amp; Technology</i> , 2004, 38, 131A-136A.	4.6	136
23	Genesis of Precambrian sulfide ores, Skellefte District, Sweden. <i>Economic Geology</i> , 1975, 70, 255-274.	1.8	131
24	Aqueous Copper Sulfide Clusters as Intermediates during Copper Sulfide Formation. <i>Environmental Science &amp; Technology</i> , 2002, 36, 394-402.	4.6	122
25	Evidence for aqueous clusters as intermediates during zinc sulfide formation. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3159-3169.	1.6	120
26	Sulfur isotope partitioning during experimental formation of pyrite via the polysulfide and hydrogen sulfide pathways: implications for the interpretation of sedimentary and hydrothermal pyrite isotope records. <i>Earth and Planetary Science Letters</i> , 2004, 228, 495-509.	1.8	119
27	High resolution transmission electron microscopic study of synthetic nanocrystalline mackinawite. <i>Earth and Planetary Science Letters</i> , 2006, 241, 227-233.	1.8	110
28	Mössbauer studies of iron sulphides. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1969, 31, 3797-3802.	0.5	108
29	Metal Sulfide Complexes and Clusters. <i>Reviews in Mineralogy and Geochemistry</i> , 2006, 61, 421-504.	2.2	108
30	Understanding fossilization: Experimental pyritization of plants. <i>Geology</i> , 2001, 29, 123.	2.0	105
31	The composition of nanoparticulate mackinawite, tetragonal iron(II) monosulfide. <i>Chemical Geology</i> , 2006, 235, 286-298.	1.4	89
32	A novel iron sulphide mineral switch and its implications for Earth and planetary science. <i>Earth and Planetary Science Letters</i> , 2001, 189, 85-91.	1.8	87
33	The influence of experimental design on the rate of calcite dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 2281-2285.	1.6	84
34	Fossil plants from the Eocene London Clay: the use of pyrite textures to determine the mechanism of pyritization. <i>Journal of the Geological Society</i> , 2002, 159, 493-501.	0.9	82
35	Studies on the genesis of the Laisvall sandstone lead-zinc deposit, Sweden. <i>Economic Geology</i> , 1979, 74, 1255-1285.	1.8	74
36	Chemistry of Iron Sulfides in Sedimentary Environments. <i>ACS Symposium Series</i> , 1995, , 168-193.	0.5	74

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37	Formation of large sulfide mineral deposits along fast spreading ridges. Example from off-axial deposits at 12°43'N on the East Pacific Rise. <i>Earth and Planetary Science Letters</i> , 1996, 144, 147-162.	1.8	72
38	Structure of framboidal pyrite: An electron backscatter diffraction study. <i>American Mineralogist</i> , 2005, 90, 1693-1704.	0.9	66
39	Experimental concentration-time curves for the iron(II) sulphide precipitation process in aqueous solutions and their interpretation. <i>Chemical Geology</i> , 1989, 78, 315-324.	1.4	59
40	Sedimentary pyrite framboid size-frequency distributions: A meta-analysis. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 522, 62-75.	1.0	57
41	Isotope systematics of the Kiruna magnetite ores, Sweden; Part 1, Age of the ore. <i>Economic Geology</i> , 1990, 85, 1770-1776.	1.8	56
42	Sedimentary Sulfides. <i>Elements</i> , 2017, 13, 117-122.	0.5	56
43	Fe isotope exchange between Fe(II)aq and nanoparticulate mackinawite (FeSm) during nanoparticle growth. <i>Earth and Planetary Science Letters</i> , 2010, 300, 174-183.	1.8	55
44	The effect of added dissolved calcium on calcite dissolution kinetics in aqueous solutions at 25°C. <i>Chemical Geology</i> , 1985, 49, 405-413.	1.4	53
45	How long does it take a pyrite framboid to form?. <i>Earth and Planetary Science Letters</i> , 2019, 513, 64-68.	1.8	53
46	Experimental determination of the equilibrium Fe isotope fractionation between and FeSm (mackinawite) at 25 and 2°C. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2721-2734.	1.6	52
47	Sedimentary Pyrite. <i>Developments in Sedimentology</i> , 2012, 65, 233-285.	0.5	49
48	Some new lead isotope determinations from the proterozoic sulfide ores of central Sweden. <i>Mineralium Deposita</i> , 1985, 20, 1.	1.7	47
49	Voltammetric Evidence for Soluble FeS Complexes in Anoxic Estuarine Muds. <i>Estuaries and Coasts</i> , 1999, 22, 693.	1.7	44
50	Early Proterozoic ensialic spreading-subsidence: evidence from the Garpenberg enclave, Central Sweden. <i>Precambrian Research</i> , 1984, 26, 203-221.	1.2	42
51	Influence of arsenic on iron sulfide transformations. <i>Chemical Geology</i> , 2007, 236, 217-227.	1.4	42
52	Botanical constraints on pyrite formation. <i>Chemical Geology</i> , 2007, 236, 228-246.	1.4	42
53	Limiting Conditions for Syndimentary Sulfide Ore Formation. <i>Economic Geology</i> , 1973, 68, 605-617.	1.8	40
54	Experimental study of Cu isotope fractionation during the reaction of aqueous Cu(II) with Fe(II) sulphides at temperatures between 40 and 200°C. <i>Chemical Geology</i> , 2011, 289, 31-38.	1.4	39

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55	Isotopic composition of Phanerozoic ore leads from the Swedish segment of the Fennoscandian Shield. <i>Mineralium Deposita</i> , 1984, 19, 249.	1.7	36
56	Electrochemical Evidence for Metal Polysulfide Complexes: Tetrasulfide (S <sub>2-4</sub> ) Reactions with Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> , and Zn <sup>2+</sup> . <i>Electroanalysis</i> , 2001, 13, 21-29.	1.5	36
57	Electrochemical Evidence for Pentasulfide Complexes with Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> and Zn <sup>2+</sup> . <i>Aquatic Geochemistry</i> , 1999, 5, 29-57.	1.5	34
58	Hydrocarbons associated with lead-zinc ores at Laisvall, Sweden. <i>Nature</i> , 1975, 255, 131-133.	13.7	32
59	Amorphous Nickel Sulfide Is Hydrated Nanocrystalline NiS with a Core-Shell Structure. <i>Inorganic Chemistry</i> , 2009, 48, 11486-11488.	1.9	32
60	Lead and sulfur isotopic compositions of galena from the Laisvall sandstone lead-zinc deposit, Sweden. <i>Economic Geology</i> , 1981, 76, 2042-2046.	1.8	31
61	Covellite formation in low temperature aqueous solutions. <i>Mineralium Deposita</i> , 1972, 7, 180-188.	1.7	30
62	Fluid migration and coal-rank development in foreland basins. <i>Geology</i> , 1998, 26, 679.	2.0	30
63	Multiple sulfur isotopes discriminate organoclastic and methane-based sulfate reduction by sub-seafloor pyrite formation. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 316, 309-330.	1.6	28
64	Sulfur isotope systematics in the Aasen pyrite-barite deposits, Skellefte District, Sweden. <i>Economic Geology</i> , 1979, 74, 1060-1068.	1.8	27
65	Mineralogy and sulphur isotope geochemistry of the Broken Spur sulphides, 29°N, Mid-Atlantic Ridge. <i>Geological Society Special Publication</i> , 1995, 87, 175-189.	0.8	26
66	Mechanism of chalcopyrite formation from iron monosulphides in aqueous solutions (< 100°C, pH 1-4). <i>Journal of Applied Earth System Science</i> , 2004, 110, 107-114.	1.4	24
67	The Svecokarelian anomalous ore lead line. <i>Gff</i> , 1978, 100, 19-30.	0.4	23
68	Nucleic Acids Bind to Nanoparticulate iron (II) Monosulphide in Aqueous Solutions. <i>Origins of Life and Evolution of Biospheres</i> , 2008, 38, 257-270.	0.8	23
69	Kinetics and mechanism of chalcopyrite formation from Fe(II) disulphide in aqueous solution (<200°C). <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 3795-3802.	1.6	21
70	Synthesis of Smythite Rhombohedral Fe <sub>3</sub> S <sub>4</sub> . <i>Nature</i> , 1968, 218, 356-357.	13.7	19
71	Ore lead isotope variations in the Proterozoic massive pyrite deposit at Nj1/2sliden, Skellefte district, Sweden. <i>Mineralium Deposita</i> , 1984, 19, 145.	1.7	18
72	Scandinavian metallogenesis. <i>Geo Journal</i> , 1979, 3, 235.	1.7	17

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73	Mineralization controls in the sandstone lead-zinc deposits at Vassbo, Sweden. <i>Economic Geology</i> , 1979, 74, 1239-1249.	1.8	17
74	Colloform gold in coal from southern Wales. <i>Geology</i> , 1994, 22, 35.	2.0	17
75	Metastable Sedimentary Iron Sulfides. <i>Developments in Sedimentology</i> , 2012, 65, 195-231.	0.5	17
76	Origin of interstitial water compositions in postglacial black clays (northeastern Sweden). <i>Chemical Geology</i> , 1984, 42, 147-158.	1.4	16
77	Isotope systematics of the Kiruna magnetite ores, Sweden; Part 2, Evidence for a secondary event 400 m.y. after ore formation. <i>Economic Geology</i> , 1992, 87, 1121-1129.	1.8	16
78	A U-Th calcite isochron age from an active geothermal field in New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 81, 327-333.	0.8	16
79	Sulphide mylonites from the Renstråm VMS deposit, Northern Sweden. <i>Mineralogical Magazine</i> , 1993, 57, 83-91.	0.6	15
80	Mineralogy and sulphur isotope characteristics of a massive sulphide boulder, Galapagos Rift, 85°55'W. <i>Geological Society Special Publication</i> , 1995, 87, 207-222.	0.8	15
81	Comment on "Determination of Metal (Bi)Sulfide Stability Constants of Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> , and Zn <sup>2+</sup> by Voltammetric Methods". <i>Environmental Science &amp; Technology</i> , 1996, 30, 3638-3639.	4.6	15
82	Structure of framboidal pyrite: a single crystal X-ray diffraction study. <i>European Journal of Mineralogy</i> , 2006, 18, 93-98.	0.4	14
83	The composition of nanoparticulate nickel sulfide. <i>Chemical Geology</i> , 2010, 277, 207-213.	1.4	14
84	Sedimentary Iron Biogeochemistry. <i>Developments in Sedimentology</i> , 2012, 65, 85-119.	0.5	14
85	Determination of stability constants for metal-ligand complexes using the voltammetric oxidation wave of the anion/ligand and the DeFord and Hume formalism. <i>Talanta</i> , 2000, 51, 11-20.	2.9	13
86	Arthritis and endogenous glucocorticoids: the emerging role of the 11β-HSD enzymes. <i>Annals of the Rheumatic Diseases</i> , 2007, 67, 1201-1203.	0.5	13
87	Genesis of an early Proterozoic zinc deposit in high-grade metamorphic terrane, Saxberget, central Sweden. <i>Economic Geology</i> , 1990, 85, 714-736.	1.8	12
88	Provenance and age of bacteria-like structures on mid-Palaeozoic plant fossils. <i>International Journal of Astrobiology</i> , 2006, 5, 109-142.	0.9	12
89	Noble gas isotopes in 25 000 years of hydrothermal fluids from 13°N on the East Pacific Rise. <i>Geological Society Special Publication</i> , 1995, 87, 133-143.	0.8	11
90	Response to Comment on "Determination of Metal (Bi)Sulfide Stability Constants of Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> , and Zn <sup>2+</sup> by Voltammetric Methods". <i>Environmental Science &amp; Technology</i> , 1996, 30, 3640-3641.	4.6	11

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91	Microbial Sulfate Reduction in Sediments. <i>Developments in Sedimentology</i> , 2012, 65, 319-351.	0.5	10
92	FeS-Induced Radical Formation and Its Effect on Plasmid DNA. <i>Aquatic Geochemistry</i> , 2011, 17, 545-566.	1.5	9
93	The Broadlandsâ€™Ohaaki geothermal system, New Zealand Part 1. Strontium isotope distribution in well BrO-29. <i>Chemical Geology</i> , 2000, 163, 247-265.	1.4	7
94	Sedimentary Sulfides. <i>Developments in Sedimentology</i> , 2012, , 543-604.	0.5	7
95	The Sedimentary Sulfur System: Biogeochemistry and Evolution through Geologic Time. , 2014, , 267-326.		7
96	Chemistry and geochemistry of solutions at high temperatures and pressures: An introduction to the symposium. <i>Physics and Chemistry of the Earth</i> , 1981, 13-14, 1-8.	0.3	6
97	Arsenic Uptake by Pyrite at Ambient Environmental Conditions: A Continuous-Flow Experiment. <i>ACS Symposium Series</i> , 2005, , 60-76.	0.5	6
98	The Evolution of the Sedimentary Sulfur Cycle. <i>Developments in Sedimentology</i> , 2012, 65, 685-766.	0.5	6
99	An apparatus for the study of fast precipitation reactions. <i>Mineralogical Magazine</i> , 1989, 53, 527-530.	0.6	5
100	Acid volatile sulfide: Authors' closing comments. <i>Marine Chemistry</i> , 2005, 97, 213-215.	0.9	5
101	8. Metal Sulfide Complexes and Clusters. , 2006, , 421-504.		5
102	Mineralogy and Sulfur Isotopic Composition of the Middle Valley Massive Sulfide Deposit, Northern Juan de Fuca Ridge. , 0, , .		5
103	Gold in South Wales coal. <i>Nature</i> , 1993, 364, 395-395.	13.7	4
104	Sub-aqueous sulfur volcanoes at Waiotapu, New Zealand. <i>Geothermics</i> , 1999, 28, 729-738.	1.5	4
105	European Phanerozoic metallogenesis. <i>Mineralium Deposita</i> , 1999, 34, 417-421.	1.7	4
106	Sulfur Chemistry in Aqueous Solutions. <i>Developments in Sedimentology</i> , 2012, 65, 31-83.	0.5	4
107	Metal Sequestration by Sedimentary Iron Sulfides. <i>Developments in Sedimentology</i> , 2012, , 287-317.	0.5	4
108	Euxinic Systems. <i>Developments in Sedimentology</i> , 2012, , 495-542.	0.5	4

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109	Aqueous Metal Sulfide Chemistry. <i>Developments in Sedimentology</i> , 2012, 65, 121-194.	0.5	4
110	Djurleite Synthesis in Low Temperature Aqueous Solution.. <i>Acta Chemica Scandinavica</i> , 1970, 24, 2236-2238.	0.7	4
111	Fluid inclusions in sphalerite at Laisvall, Sweden. <i>Gff</i> , 1978, 100, 177-180.	0.4	3
112	The chemistry and geochemistry of solutions at high temperatures and pressures. <i>Gff</i> , 1980, 102, 90-90.	0.4	3
113	Pentlandite and violarite in the NottrÅsk deposit, northeastern Sweden. <i>Gff</i> , 1980, 101, 255-260.	0.4	3
114	Early Proterozoic Subaerial Volcanism and Its Relationship to Broken Hill-type Mineralization in Central Sweden. <i>Geological Society Special Publication</i> , 1987, 33, 81-93.	0.8	3
115	Comment and Reply on "Pb-Zn ore deposits of the northern Caledonides: Products of continental-scale fluid mixing and tectonic expulsion during continental collision". <i>Geology</i> , 1989, 17, 1059.	2.0	3
116	The Geochemistry of Sulfidic Sedimentary Rocks. <i>Developments in Sedimentology</i> , 2012, 65, 605-632.	0.5	3
117	Studies of the genesis of the Laisvall sandstone lead-zinc deposit, Sweden; reply. <i>Economic Geology</i> , 1981, 76, 2052-2060.	1.8	3
118	Congruence and genesis. <i>Gff</i> , 1977, 99, 143-148.	0.4	2
119	Ore geology textbooks in the eighties. <i>Geological Magazine</i> , 1988, 125, 89-95.	0.9	2
120	A special issue devoted to current research on mineral deposits of Europe; preface. <i>Economic Geology</i> , 1989, 84, 997-1002.	1.8	2
121	Microbial Sulfide Oxidation in Sediments. <i>Developments in Sedimentology</i> , 2012, 65, 353-372.	0.5	2
122	K:KART; a minicomputer program for two- and three dimensional representations of topographic and isopach maps. <i>Economic Geology</i> , 1979, 74, 1250-1254.	1.8	2
123	A double-edged retirement honour. <i>Nature</i> , 2018, 560, 553-553.	13.7	2
124	Pyrrhotite mineralogy of the NottrÅsk deposit, northeastern Sweden. <i>Gff</i> , 1980, 102, 83-89.	0.4	1
125	Isotopic constraints on the source of lead in the Laisvall sandstone lead-zinc deposit, Sweden. <i>Gff</i> , 1981, 103, 126-126.	0.4	1
126	Account of a Deep Hole. <i>Geological Magazine</i> , 1988, 125, 659-661.	0.9	1



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127	Sedimentary Sulfur Isotope Biogeochemistry. <i>Developments in Sedimentology</i> , 2012, , 419-473.	0.5	1
128	Fossil Bacteria. <i>Developments in Sedimentology</i> , 2012, 65, 633-683.	0.5	1
129	Iron Isotope Fractionation In Sedimentary Sulfides. <i>Developments in Sedimentology</i> , 2012, 65, 475-493.	0.5	1
130	The Many Faces of Foolâ€™s Gold. <i>American Scientist</i> , 2016, 104, 174.	0.1	1
131	Genesis of Precambrian sulfide ores, Skellefte District, Sweden; a reply. <i>Economic Geology</i> , 1976, 71, 674-678.	1.8	1
132	Inside the Earth. <i>Nature</i> , 1979, 282, 362-363.	13.7	0
133	Proterozoic Volcanogenic Mineralization Styles. <i>Geological Society Special Publication</i> , 1987, 33, 23-35.	0.8	0
134	The origin of hydrothermal sulfur in volcanic terranes. <i>Chemical Geology</i> , 1988, 70, 137.	1.4	0
135	Carbonate-hosted ore deposits and the British Geological Survey. <i>Geological Magazine</i> , 1990, 127, 595-598.	0.9	0
136	Title is missing!. <i>Geological Magazine</i> , 1991, 128, 398-399.	0.9	0
137	Citation for presentation of the 2004 Clair C. Patterson award to George Luther. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, S13.	1.6	0
138	Peter Deines (1936â€“2009). <i>Chemical Geology</i> , 2009, 266, 113.	1.4	0
139	Microbial Ecology of Sulfidic Sediments. <i>Developments in Sedimentology</i> , 2012, , 373-418.	0.5	0
140	Review of I.A.M. Ahmed and K.A. Hudson-Edwards (eds.) (2017): <i>Redox-reactive minerals: Properties, reactions and applications in natural systems and clean technologies</i> . <i>EMU Notes in Mineralogy</i> , 17. <i>European Journal of Mineralogy</i> , 2018, 30, 653-654.	0.4	0
141	<i>Antimony, Gold and Jupiter's Wolf</i> . By Peter Wothers. Oxford University Press, 2019. Hardback, 273Âpp. Price GBP 20.00, USD 25.95. ISBN 9780199652723.. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020, 76, 203-204.	0.2	0