Andreas Kappler

List of Publications by Year
in descending order

321 papers	22,725 citations	8732 75 h-index	11899 134 g-index
344 all docs	344 docs citations	344 times ranked	15286 citing authors

#	Article	IF	Citations
1	Co-sorption of metal ions and inorganic anions/organic ligands on environmental minerals: A review. Science of the Total Environment, 2022, 803, 149918.	3.9	44
2	Mineral characterization and composition of Fe-rich flocs from wetlands of Iceland: Implications for Fe, C and trace element export. Science of the Total Environment, 2022, 816, 151567.	3.9	8
3	Temperature dependence of nitrate-reducing Fe(II) oxidation by <i>Acidovorax</i> strain BoFeN1 â€“ evaluating the role of enzymatic vs. abiotic Fe(II) oxidation by nitrite. FEMS Microbiology Ecology, 2022, 97, .	1.3	10
4	Powering biological nitrogen removal from the environment by geobatteries. Trends in Biotechnology, 2022, 40, 377-380.	4.9	10
5	Growth of microaerophilic Fe(II)â€oxidizing bacteria using Fe(II) produced by Fe(III) photoreduction. Geobiology, 2022, 20, 421-434.	1.1	2
6	Influence of Fe(III) source, light quality, photon flux and presence of oxygen on photoreduction of Fe(III)-organic complexes â€“ Implications for light-influenced coastal freshwater and marine sediments. Science of the Total Environment, 2022, 814, 152767.	3.9	5
7	Utilization and recycling of wood ashes from industrial heat and power plants regarding fertilizer use. Waste Management, 2022, 141, 92-103.	3.7	6
8	Cryoturbation impacts iron-organic carbon associations along a permafrost soil chronosequence in northern Alaska. Geoderma, 2022, 413, 115738.	2.3	17
9	Fungalâ€“Mineral Interactions Modulating Intrinsic Peroxidase-like Activity of Iron Nanoparticles: Implications for the Biogeochemical Cycles of Nutrient Elements and Attenuation of Contaminants. Environmental Science & Technology, 2022, 56, 672-680.	4.6	23
10	Biogeochemical Niches of Fe-Cycling Communities Influencing Heavy Metal Transport along the Rio Tinto, Spain. Applied and Environmental Microbiology, 2022, 88, AEM0229021.	1.4	6
11	Seasonal Fluctuations in Iron Cycling in Thawing Permafrost Peatlands. Environmental Science & Technology, 2022, 56, 4620-4631.	4.6	17
12	Microbial iron cycling during palsa hillslope collapse promotes greenhouse gas emissions before complete permafrost thaw. Communications Earth & Environment, 2022, 3, .	2.6	11
13	â€˜Candidatus ferrigenium straubiaeâ€™ sp. nov., â€˜Candidatus ferrigenium bremenseâ€™ sp. nov., â€˜Candidatus ferrigenium altingenseâ€™ sp. nov., are autotrophic Fe(II)-oxidizing bacteria of the family Gallionellaceae. Systematic and Applied Microbiology, 2022, 45, 126306.	1.2	13
14	Salinity Impact on Composition and Activity of Nitrate-Reducing Fe(II)-Oxidizing Microorganisms in Saline Lakes. Applied and Environmental Microbiology, 2022, , e0013222.	1.4	2
15	Microbial Fe cycling in a simulated Precambrian ocean environment: Implications for secondary mineral (trans)formation and deposition during BIF genesis. Geochimica Et Cosmochimica Acta, 2022, 331, 165-191.	1.6	8
16	Hydrological Perturbations Facilitated Phyllosphere Denitrification of an Urban Greening Tree. ACS Earth and Space Chemistry, 2022, 6, 1460-1467.	1.2	2
17	Microbial communities contribute to the elimination of As, Fe, Mn, and NH4+ from groundwater in household sand filters. Science of the Total Environment, 2022, 838, 156496.	3.9	6
18	Microbial community mediates hydroxyl radical production in soil slurries by iron redox transformation. Water Research, 2022, 220, 118689.	5.3	16

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19	Iron isotope fractionation in anoxygenic phototrophic Fe(II) oxidation by Rhodobacter ferrooxidans SW2. Geochimica Et Cosmochimica Acta, 2022, 332, 355-368.	1.6	1
20	Tide-Triggered Production of Reactive Oxygen Species in Coastal Soils. Environmental Science & Technology, 2022, 56, 11888-11896.	4.6	25
21	Arsenic behavior in groundwater in Hanoi (Vietnam) influenced by a complex biogeochemical network of iron, methane, and sulfur cycling. Journal of Hazardous Materials, 2021, 407, 124398.	6.5	31
22	Metabolic Responses of a Phototrophic Co-Culture Enriched from a Freshwater Sediment on Changing Substrate Availability and its Relevance for Biogeochemical Iron Cycling. Geomicrobiology Journal, 2021, 38, 267-281.	1.0	3
23	An evolving view on biogeochemical cycling of iron. Nature Reviews Microbiology, 2021, 19, 360-374.	13.6	299
24	å¾·å›½è¥¿å—éƒ¨è£‚éš™å²©æº¶å«æ°´å±‚åœ°ä¸‹æ°´è¡¥ç»™è¿‡ç¨‹ä¸çš„ç¡é…¸ç›å½’å®¿. Hydrogeology Journal, 2021, 29, 1153-1171.	0.9	13
25	Iron mineral transformations and their impact on As (im)mobilization at redox interfaces in As-contaminated aquifers. Geochimica Et Cosmochimica Acta, 2021, 296, 189-209.	1.6	24
26	Potentially bioavailable iron produced through benthic cycling in glaciated Arctic fjords of Svalbard. Nature Communications, 2021, 12, 1349.	5.8	26
27	Variation of salinity and nitrogen concentration affects the pentacyclic triterpenoid inventory of the haloalkaliphilic aerobic methanotrophic bacterium Methylotuvimicrobium alcaliphilum. Extremophiles, 2021, 25, 285-299.	0.9	4
28	A biogeochemicalâ€“hydrological framework for the role of redox-active compounds in aquatic systems. Nature Geoscience, 2021, 14, 264-272.	5.4	67
29	Application of Single-Particle ICP-MS to Determine the Mass Distribution and Number Concentrations of Environmental Nanoparticles and Colloids. Environmental Science and Technology Letters, 2021, 8, 589-595.	3.9	18
30	Fe(II) Redox Chemistry in the Environment. Chemical Reviews, 2021, 121, 8161-8233.	23.0	242
31	A Novel Enrichment Culture Highlights Core Features of Microbial Networks Contributing to Autotrophic Fe(II) Oxidation Coupled to Nitrate Reduction. Microbial Physiology, 2021, 31, 280-295.	1.1	19
32	Towards a standardized protocol for studying chemolithoautotrophic denitrification with pyrite at circumneutral pH. Applied Geochemistry, 2021, 130, 104995.	1.4	4
33	Carbon and methane cycling in arsenic-contaminated aquifers. Water Research, 2021, 200, 117300.	5.3	22
34	Fermentation, methanotrophy and methanogenesis influence sedimentary Fe and As dynamics in As-affected aquifers in Vietnam. Science of the Total Environment, 2021, 779, 146501.	3.9	16
35	Meta-omics Reveal <i>Gallionellaceae</i> and <i>Rhodanobacter</i> Species as Interdependent Key Players for Fe(II) Oxidation and Nitrate Reduction in the Autotrophic Enrichment Culture KS. Applied and Environmental Microbiology, 2021, 87, e0049621.	1.4	26
36	Isotopic Labeling Reveals Microbial Methane Oxidation Coupled to Fe(III) Mineral Reduction in Sediments from an As-Contaminated Aquifer. Environmental Science and Technology Letters, 2021, 8, 832-837.	3.9	15

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37	Nitrate Removal by a Novel Lithoautotrophic Nitrate-Reducing, Iron(II)-Oxidizing Culture Enriched from a Pyrite-Rich Limestone Aquifer. Applied and Environmental Microbiology, 2021, 87, e0046021.	1.4	22
38	Anaerobic Neutrophilic Pyrite Oxidation by a Chemolithoautotrophic Nitrate-Reducing Iron(II)-Oxidizing Culture Enriched from a Fractured Aquifer. Environmental Science & Technology, 2021, 55, 9876-9884.	4.6	25
39	Organic Matter from Redoximorphic Soils Accelerates and Sustains Microbial Fe(III) Reduction. Environmental Science & Technology, 2021, 55, 10821-10831.	4.6	22
40	Microbial transformation of biogenic and abiogenic Fe minerals followed by in-situ incubations in an As-contaminated vs. non-contaminated aquifer. Environmental Pollution, 2021, 281, 117012.	3.7	9
41	Evolution of (Bioâ€)Geochemical Processes and Diagenetic Alteration of Sediments Along the Tectonic Migration of Ocean Floor in the Shikoku Basin off Japan. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009585.	1.0	11
42	Chromium (VI) removal kinetics by magnetite-coated sand: Small-scale flow-through column experiments. Journal of Hazardous Materials, 2021, 415, 125648.	6.5	9
43	Using Zn and Ni behavior during magnetite precipitation in banded iron formations to determine its biological or abiotic origin. Earth and Planetary Science Letters, 2021, 568, 117052.	1.8	7
44	Phosphate remobilization from banded iron formations during metamorphic mineral transformations. Chemical Geology, 2021, 584, 120489.	1.4	7
45	A coupled function of biochar as geobattery and geoconductor leads to stimulation of microbial Fe(III) reduction and methanogenesis in a paddy soil enrichment culture. Soil Biology and Biochemistry, 2021, 163, 108446.	4.2	19
46	Presence of Fe(II) and nitrate shapes aquifer-originating communities leading to an autotrophic enrichment dominated by an Fe(II)-oxidizing <i>Gallionellaceae</i> sp. FEMS Microbiology Ecology, 2021, 97, .	1.3	14
47	Molybdenum Bioavailability and Asymbiotic Nitrogen Fixation in Soils are Raised by Iron (Oxyhydr)oxide-Mediated Free Radical Production. Environmental Science & Technology, 2021, 55, 14979-14989.	4.6	20
48	Microbial processes during deposition and diagenesis of Banded Iron Formations. Palaontologische Zeitschrift, 2021, 95, 593-610.	0.8	9
49	Carbon stable isotope patterns of cyclic terpenoids: A comparison of cultured alkaliphilic aerobic methanotrophic bacteria and methane-seep environments. Organic Geochemistry, 2020, 139, 103940.	0.9	15
50	Effect of Fe-metabolizing bacteria and humic substances on magnetite nanoparticle reactivity towards arsenic and chromium. Journal of Hazardous Materials, 2020, 384, 121450.	6.5	18
51	Fe(III) Photoreduction Producing Fe_{aq}²⁺ in Oxic Freshwater Sediment. Environmental Science & Technology, 2020, 54, 862-869.	4.6	27
52	Photochemistry of iron in aquatic environments. Environmental Sciences: Processes and Impacts, 2020, 22, 12-24.	1.7	49
53	Aggregation-dependent electron transfer via redox-active biochar particles stimulate microbial ferrihydrite reduction. Science of the Total Environment, 2020, 703, 135515.	3.9	57
54	Role of Chemodenitrification for N₂O Emissions from Nitrate Reduction in Rice Paddy Soils. ACS Earth and Space Chemistry, 2020, 4, 122-132.	1.2	39

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55	Mediated electrochemical analysis as emerging tool to unravel links between microbial redox cycling of natural organic matter and anoxic nitrogen cycling. Earth-Science Reviews, 2020, 208, 103281.	4.0	10
56	Coupled anaerobic methane oxidation and reductive arsenic mobilization in wetland soils. Nature Geoscience, 2020, 13, 799-805.	5.4	71
57	Reusable magnetite nanoparticlesâ€“biochar composites for the efficient removal of chromate from water. Scientific Reports, 2020, 10, 19007.	1.6	25
58	Arsenic mobilization by anaerobic iron-dependent methane oxidation. Communications Earth & Environment, 2020, 1, .	2.6	22
59	Electron Hopping Enables Rapid Electron Transfer between Quinone-/Hydroquinone-Containing Organic Molecules in Microbial Iron(III) Mineral Reduction. Environmental Science & Technology, 2020, 54, 10646-10653.	4.6	34
60	Magnetite biomineralization in ferruginous waters and early Earth evolution. Earth and Planetary Science Letters, 2020, 549, 116495.	1.8	12
61	Complexation by cysteine and iron mineral adsorption limit cadmium mobility during metabolic activity of <i>Geobacter sulfurreducens</i>. Environmental Sciences: Processes and Impacts, 2020, 22, 1877-1887.	1.7	7
62	Iron mineral dissolution releases iron and associated organic carbon during permafrost thaw. Nature Communications, 2020, 11, 6329.	5.8	96
63	From Plant to Paddyâ€"How Rice Root Iron Plaque Can Affect the Paddy Field Iron Cycling. Soil Systems, 2020, 4, 28.	1.0	19
64	Interactions of ferrous iron with clay mineral surfaces during sorption and subsequent oxidation. Environmental Sciences: Processes and Impacts, 2020, 22, 1355-1367.	1.7	25
65	Genomic Insights into Two Novel Fe(II)-Oxidizing <i>Zetaproteobacteria</i> Isolates Reveal Lifestyle Adaption to Coastal Marine Sediments. Applied and Environmental Microbiology, 2020, 86, .	1.4	4
66	Metagenomic- and Cultivation-Based Exploration of Anaerobic Chloroform Biotransformation in Hypersaline Sediments as Natural Source of Chloromethanes. Microorganisms, 2020, 8, 665.	1.6	8
67	Immobilizing magnetite onto quartz sand for chromium remediation. Journal of Hazardous Materials, 2020, 400, 123139.	6.5	13
68	Role of in Situ Natural Organic Matter in Mobilizing As during Microbial Reduction of Fe^{III}-Mineral-Bearing Aquifer Sediments from Hanoi (Vietnam). Environmental Science & Technology, 2020, 54, 4149-4159.	4.6	58
69	Role of Iron Sulfide Phases in the Stability of Noncrystalline Tetravalent Uranium in Sediments. Environmental Science & Technology, 2020, 54, 4840-4846.	4.6	17
70	Effect of Microbial Biomass and Humic Acids on Abiotic and Biotic Magnetite Formation. Environmental Science & Technology, 2020, 54, 4121-4130.	4.6	32
71	Arsenic sequestration in pyrite and greigite in the buried peat of As-contaminated aquifers. Geochimica Et Cosmochimica Acta, 2020, 284, 107-119.	1.6	22
72	Effect of Natural Organic Matter on the Fate of Cadmium During Microbial Ferrihydrite Reduction. Environmental Science & Technology, 2020, 54, 9445-9453.	4.6	39

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73	Biochar as electron donor for reduction of N2O by Paracoccus denitrificans. FEMS Microbiology Ecology, 2020, 96, .	1.3	14
74	Fungal Nanophase Particles Catalyze Iron Transformation for Oxidative Stress Removal and Iron Acquisition. Current Biology, 2020, 30, 2943-2950.e4.	1.8	32
75	Trace element behavior in wood-fueled heat and power stations in terms of an urban mining perspective. Fuel, 2020, 267, 116887.	3.4	8
76	Influence of Physical Perturbation on Fe(II) Supply in Coastal Marine Sediments. Environmental Science & Technology, 2020, 54, 3209-3218.	4.6	17
77	High-pH and anoxic conditions during soil organic matter extraction increases its electron-exchange capacity and ability to stimulate microbial Fe(III) reduction by electron shuttling. Biogeosciences, 2020, 17, 683-698.	1.3	20
78	Role of biogenic Fe(III) minerals as a sink and carrier of heavy metals in the Rio Tinto, Spain. Science of the Total Environment, 2020, 718, 137294.	3.9	18
79	AQDS and Redox-Active NOM Enables Microbial Fe(III)-Mineral Reduction at cm-Scales. Environmental Science & Technology, 2020, 54, 4131-4139.	4.6	49
80	Spatial and temporal evolution of groundwater arsenic contamination in the Red River delta, Vietnam: Interplay of mobilisation and retardation processes. Science of the Total Environment, 2020, 717, 137143.	3.9	61
81	Impact of reactive surfaces on the abiotic reaction between nitrite and ferrous iron and associated nitrogen and oxygen isotope dynamics. Biogeosciences, 2020, 17, 4355-4374.	1.3	8
82	Iron Lung: How Rice Roots Induce Iron Redox Changes in the Rhizosphere and Create Niches for Microaerophilic Fe(II)-Oxidizing Bacteria. Environmental Science and Technology Letters, 2019, 6, 600-605.	3.9	55
83	N2O formation by nitrite-induced (chemo)denitrification in coastal marine sediment. Scientific Reports, 2019, 9, 10691.	1.6	42
84	How did the evolution of oxygenic photosynthesis influence the temporal and spatial development of the microbial iron cycle on ancient Earth?. Free Radical Biology and Medicine, 2019, 140, 154-166.	1.3	15
85	Mineral Defects Enhance Bioavailability of Goethite toward Microbial Fe(III) Reduction. Environmental Science & Technology, 2019, 53, 8883-8891.	4.6	42
86	Fungus-initiated catalytic reactions at hyphal-mineral interfaces drive iron redox cycling and biomineralization. Geochimica Et Cosmochimica Acta, 2019, 260, 192-203.	1.6	40
87	Fate of cobalt and nickel in mackinawite during diagenetic pyrite formation. American Mineralogist, 2019, 104, 917-928.	0.9	16
88	MÃ¶ssbauer Spectroscopy. , 2019, , 314-338.		5
89	Temperature fluctuations in the Archean ocean as trigger for varve-like deposition of iron and silica minerals in banded iron formations. Geochimica Et Cosmochimica Acta, 2019, 265, 386-412.	1.6	14
90	Redox-active humics support interspecies syntrophy and shift microbial community. Science China Technological Sciences, 2019, 62, 1695-1702.	2.0	12

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91	H2-fuelled microbial metabolism in Opalinus Clay. Applied Clay Science, 2019, 174, 69-76.	2.6	14
92	Contribution of Microaerophilic Iron(II)-Oxidizers to Iron(III) Mineral Formation. Environmental Science & Technology, 2019, 53, 8197-8204.	4.6	40
93	Draft Genome Sequence of <i>Chlorobium</i> sp. Strain N1, a Marine Fe(II)-Oxidizing Green Sulfur Bacterium. Microbiology Resource Announcements, 2019, 8, .	0.3	7
94	Formation of green rust and elemental sulfur in an analogue for oxygenated ferro-euxinic transition zones of Precambrian oceans. Geology, 2019, 47, 211-214.	2.0	22
95	Pyrite formation from FeS and H ₂ S is mediated through microbial redox activity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6897-6902.	3.3	106
96	Cryptic Cycling of Complexes Containing Fe(III) and Organic Matter by Phototrophic Fe(II)-Oxidizing Bacteria. Applied and Environmental Microbiology, 2019, 85, .	1.4	23
97	Organic Matter Complexation Promotes Fe(II) Oxidation by the Photoautotrophic Fe(II)-Oxidizer <i>Rhodopseudomonas palustris</i> TIE-1. ACS Earth and Space Chemistry, 2019, 3, 531-536.	1.2	22
98	Trace Element Concentrations in Firewood and Corresponding Stove Ashes. Energy & Fuels, 2019, 33, 2236-2247.	2.5	9
99	Photoferrotrophy, deposition of banded iron formations, and methane production in Archean oceans. Science Advances, 2019, 5, eaav2869.	4.7	43
100	Effect of Reduced Sulfur Species on Chemolithoautotrophic Pyrite Oxidation with Nitrate. Geomicrobiology Journal, 2019, 36, 19-29.	1.0	32
101	Photoferrotrophy. , 2019, , 1-3.		0
102	Magnetite and Green Rust: Synthesis, Properties, and Environmental Applications of Mixed-Valent Iron Minerals. Chemical Reviews, 2018, 118, 3251-3304.	23.0	319
103	Imaging Organicâ€"Mineral Aggregates Formed by Fe(II)-Oxidizing Bacteria Using Helium Ion Microscopy. Environmental Science and Technology Letters, 2018, 5, 209-213.	3.9	21
104	Insights into Carbon Metabolism Provided by Fluorescence<i>In Situ</i>Hybridization-Secondary Ion Mass Spectrometry Imaging of an Autotrophic, Nitrate-Reducing, Fe(II)-Oxidizing Enrichment Culture. Applied and Environmental Microbiology, 2018, 84, .	1.4	32
105	Growth and Population Dynamics of the Anaerobic Fe(II)-Oxidizing and Nitrate-Reducing Enrichment Culture KS. Applied and Environmental Microbiology, 2018, 84, .	1.4	46
106	Oxidation of Fe(II)â€"Organic Matter Complexes in the Presence of the Mixotrophic Nitrate-Reducing Fe(II)-Oxidizing Bacterium <i>Acidovorax</i> sp. BoFeN1. Environmental Science & Technology, 2018, 52, 5753-5763.	4.6	45
107	Biochar affects community composition of nitrous oxide reducers in a field experiment. Soil Biology and Biochemistry, 2018, 119, 143-151.	4.2	46
108	Quantitative analysis of O2 and Fe2+ profiles in gradient tubes for cultivation of microaerophilic Iron(II)-oxidizing bacteria. FEMS Microbiology Ecology, 2018, 94, .	1.3	19

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109	The distribution of active ironâ€cycling bacteria in marine and freshwater sediments is decoupled from geochemical gradients. Environmental Microbiology, 2018, 20, 2483-2499.	1.8	76
110	Oxic Fe(III) reduction could have generated Fe(II) in the photic zone of Precambrian seawater. Scientific Reports, 2018, 8, 4238.	1.6	11
111	A Revised Iron Extraction Protocol for Environmental Samples Rich in Nitrite and Carbonate. Geomicrobiology Journal, 2018, 35, 23-30.	1.0	29
112	Effect of biochar amendment on compost organic matter composition following aerobic composting of manure. Science of the Total Environment, 2018, 613-614, 20-29.	3.9	96
113	Microbially Mediated Coupling of Fe and N Cycles by Nitrate-Reducing Fe(II)-Oxidizing Bacteria in Littoral Freshwater Sediments. Applied and Environmental Microbiology, 2018, 84, .	1.4	45
114	Enhancing handwashing frequency and technique of primary caregivers in Harare, Zimbabwe: A cluster-randomized controlled trial using behavioral and microbial outcomes. Social Science and Medicine, 2018, 196, 66-76.	1.8	25
115	Phytoplankton contributions to the trace-element composition of Precambrian banded iron formations. Bulletin of the Geological Society of America, 2018, 130, 941-951.	1.6	28
116	Sterilization impacts on marine sediment---Are we able to inactivate microorganisms in environmental samples?. FEMS Microbiology Ecology, 2018, 94, .	1.3	32
117	Impact of Organic Matter on Iron(II)-Catalyzed Mineral Transformations in Ferrihydriteâ€“Organic Matter Coprecipitates. Environmental Science & Technology, 2018, 52, 12316-12326.	4.6	139
118	Microbial anaerobic Fe(II) oxidation â€“ Ecology, mechanisms and environmental implications. Environmental Microbiology, 2018, 20, 3462-3483.	1.8	165
119	UV radiation limited the expansion of cyanobacteria in early marine photic environments. Nature Communications, 2018, 9, 3088.	5.8	44
120	A case study for late Archean and Proterozoic biogeochemical ironâ€•and sulphur cycling in a modern habitatâ€”the Arvadi Spring. Geobiology, 2018, 16, 353-368.	1.1	5
121	Proteome Response of a Metabolically Flexible Anoxygenic Phototroph to Fe(II) Oxidation. Applied and Environmental Microbiology, 2018, 84, .	1.4	5
122	Nanoscale analyses of the surface structure and composition of biochars extracted from field trials or after co-composting using advanced analytical electron microscopy. Geoderma, 2017, 294, 70-79.	2.3	84
123	Mineralogical evidence for crystallization conditions and petrogenesis of ilmenite-series I-type granitoids at the Baogutu reduced porphyry Cu deposit (Western Junggar, NW China): MÃ¶ssbauer spectroscopy, EPM and LA-(MC)-ICPMS analyses. Ore Geology Reviews, 2017, 86, 382-403.	1.1	26
124	Cryptic biogeochemical cycles: unravelling hidden redox reactions. Environmental Microbiology, 2017, 19, 842-846.	1.8	58
125	Microaerophilic Fe(II)-Oxidizing Zetaproteobacteria Isolated from Low-Fe Marine Coastal Sediments: Physiology and Composition of Their Twisted Stalks. Applied and Environmental Microbiology, 2017, 83, .	1.4	42
126	Iron Isotope Fractionation during Fe(II) Oxidation Mediated by the Oxygen-Producing Marine Cyanobacterium <i>Synechococcus</i> PCC 7002. Environmental Science & Technology, 2017, 51, 4897-4906.	4.6	34

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127	Physiological characterization of a halotolerant anoxygenic phototrophic Fe(II)-oxidizing green-sulfur bacterium isolated from a marine sediment. FEMS Microbiology Ecology, 2017, 93, .	1.3	23
128	Field- and Lab-Based Potentiometric Titrations of Microbial Mats from the Fairmont Hot Spring, Canada. Geomicrobiology Journal, 2017, 34, 851-863.	1.0	4
129	Insights into Nitrate-Reducing Fe(II) Oxidation Mechanisms through Analysis of Cell-Mineral Associations, Cell Encrustation, and Mineralogy in the Chemolithoautotrophic Enrichment Culture KS. Applied and Environmental Microbiology, 2017, 83, .	1.4	64
130	Iron(II)-Catalyzed Iron Atom Exchange and Mineralogical Changes in Iron-rich Organic Freshwater Flocs: An Iron Isotope Tracer Study. Environmental Science & Technology, 2017, 51, 6897-6907.	4.6	69
131	Abiotic versus biotic iron mineral transformation studied by a miniaturized backscattering MÃ¶ssbauer spectrometer (MIMOS II), X-ray diffraction and Raman spectroscopy. Icarus, 2017, 296, 49-58.	1.1	19
132	Fe isotope fractionation during Fe(II) oxidation by the marine photoferrotroph Rhodovulum iodosum in the presence of Si â€“ Implications for Precambrian iron formation deposition. Geochimica Et Cosmochimica Acta, 2017, 211, 307-321.	1.6	19
133	Linking Genes to Microbial Biogeochemical Cycling: Lessons from Arsenic. Environmental Science & Technology, 2017, 51, 7326-7339.	4.6	223
134	Organic coating on biochar explains its nutrient retention and stimulation of soil fertility. Nature Communications, 2017, 8, 1089.	5.8	371
135	Current and future microbiological strategies to remove As and Cd from drinking water. Microbial Biotechnology, 2017, 10, 1098-1101.	2.0	8
136	Recovery of precious metals from waste streams. Microbial Biotechnology, 2017, 10, 1194-1198.	2.0	43
137	Interactions between magnetite and humic substances: redox reactions and dissolution processes. Geochemical Transactions, 2017, 18, 6.	1.8	27
138	Soil biochar amendment affects the diversity of nosZ transcripts: Implications for N2O formation. Scientific Reports, 2017, 7, 3338.	1.6	55
139	Long term farming systems affect soils potential for N2O production and reduction processes under denitrifying conditions. Soil Biology and Biochemistry, 2017, 114, 31-41.	4.2	34
140	Tillage system affects fertilizer-induced nitrous oxide emissions. Biology and Fertility of Soils, 2017, 53, 49-59.	2.3	37
141	Does soil aging affect the N₂O mitigation potential of biochar? A combined microcosm and field study. GCB Bioenergy, 2017, 9, 953-964.	2.5	65
142	Handwashing, but how? Microbial effectiveness of existing handwashing practices in high-density suburbs of Harare, Zimbabwe. American Journal of Infection Control, 2017, 45, 228-233.	1.1	20
143	Nitrate capture and slow release in biochar amended compost and soil. PLoS ONE, 2017, 12, e0171214.	1.1	128
144	The Bacteriohopanepolyol Inventory of Novel Aerobic Methane Oxidising Bacteria Reveals New Biomarker Signatures of Aerobic Methanotrophy in Marine Systems. PLoS ONE, 2016, 11, e0165635.	1.1	41

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145	Anaerobic microbial Fe(II) oxidation and Fe(III) reduction in coastal marine sediments controlled by organic carbon content. Environmental Microbiology, 2016, 18, 3159-3174.	1.8	42
146	Limited influence of Si on the preservation of Fe mineralâ€encrusted microbial cells during experimental diagenesis. Geobiology, 2016, 14, 276-292.	1.1	27
147	Evaluation of siderite and magnetite formation in BIFs by pressureâ€“temperature experiments of Fe(III) minerals and microbial biomass. Earth and Planetary Science Letters, 2016, 450, 243-253.	1.8	33
148	Gas entrapment and microbial N2O reduction reduce N2O emissions from a biochar-amended sandy clay loam soil. Scientific Reports, 2016, 6, 39574.	1.6	65
149	Protection of Nitrate-Reducing Fe(II)-Oxidizing Bacteria from UV Radiation by Biogenic Fe(III) Minerals. Astrobiology, 2016, 16, 301-310.	1.5	8
150	The biogeochemical iron cycle and astrobiology. Hyperfine Interactions, 2016, 237, 1.	0.2	10
151	Ribosomal Tag Pyrosequencing of DNA and RNA Reveals â€œRareâ€•Taxa with High Protein Synthesis Potential in the Sediment of a Hypersaline Lake in Western Australia. Geomicrobiology Journal, 2016, 33, 426-440.	1.0	22
152	Soil biochar amendment shapes the composition of N2O-reducing microbial communities. Science of the Total Environment, 2016, 562, 379-390.	3.9	117
153	Binding of heavy metal ions in aggregates of microbial cells, EPS and biogenic iron minerals measured in-situ using metal- and glycoconjugates-specific fluorophores. Geochimica Et Cosmochimica Acta, 2016, 180, 66-96.	1.6	72
154	Evidence for the Existence of Autotrophic Nitrate-Reducing Fe(II)-Oxidizing Bacteria in Marine Coastal Sediment. Applied and Environmental Microbiology, 2016, 82, 6120-6131.	1.4	68
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