

# Rizlan Bernier-Latmani

## List of Publications by Year in descending order

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101  
papers

5,387  
citations

76196

40  
h-index

88477

70  
g-index

107  
all docs

107  
docs citations

107  
times ranked

5689  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver Release from Silver Nanoparticles in Natural Waters. <i>Environmental Science &amp; Technology</i> , 2013, 47, 4140-4146.	4.6	265
2	Binding of Silver Nanoparticles to Bacterial Proteins Depends on Surface Modifications and Inhibits Enzymatic Activity. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2163-2168.	4.6	239
3	Non-uraninite Products of Microbial U(VI) Reduction. <i>Environmental Science &amp; Technology</i> , 2010, 44, 9456-9462.	4.6	220
4	Uranium redox transition pathways in acetate-amended sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4506-4511.	3.3	161
5	Cometabolism of Cr(VI) by <i>Shewanella oneidensis</i> MR-1 produces cell-associated reduced chromium and inhibits growth. <i>Biotechnology and Bioengineering</i> , 2003, 83, 627-637.	1.7	151
6	Mobile uranium(IV)-bearing colloids in a mining-impacted wetland. <i>Nature Communications</i> , 2013, 4, 2942.	5.8	151
7	Functional Intestinal Bile Acid 7̄-Dehydroxylation by <i>Clostridium scindens</i> Associated with Protection from <i>Clostridium difficile</i> Infection in a Gnotobiotic Mouse Model. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016, 6, 191.	1.8	151
8	Biogenic Uraninite Nanoparticles and Their Importance for Uranium Remediation. <i>Elements</i> , 2008, 4, 407-412.	0.5	148
9	Role of proteins in controlling selenium nanoparticle size. <i>Nanotechnology</i> , 2011, 22, 195605.	1.3	144
10	Global Transcriptional Profiling of <i>Shewanella oneidensis</i> MR-1 during Cr(VI) and U(VI) Reduction. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7453-7460.	1.4	139
11	Uranium isotopes fingerprint biotic reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5619-5624.	3.3	133
12	Products of abiotic U(VI) reduction by biogenic magnetite and vivianite. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2512-2528.	1.6	130
13	SunChem: an integrated process for the hydrothermal production of methane from microalgae and CO <sub>2</sub> mitigation. <i>Journal of Applied Phycology</i> , 2009, 21, 529-541.	1.5	126
14	Reconstructing a hydrogen-driven microbial metabolic network in Opalinus Clay rock. <i>Nature Communications</i> , 2016, 7, 12770.	5.8	120
15	Structure of Biogenic Uraninite Produced by <i>Shewanella oneidensis</i> Strain MR-1. <i>Environmental Science &amp; Technology</i> , 2008, 42, 7898-7904.	4.6	119
16	The product of microbial uranium reduction includes multiple species with U(IV)-phosphate coordination. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 131, 115-127.	1.6	114
17	Uranium speciation and stability after reductive immobilization in aquifer sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6497-6510.	1.6	112
18	Quantitative Separation of Monomeric U(IV) from UO <sub>2</sub> in Products of U(VI) Reduction. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6150-6157.	4.6	107

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19	Toxicity of Cr(III) to <i>Shewanella</i> sp. Strain MR-4 during Cr(VI) Reduction. <i>Environmental Science &amp; Technology</i> , 2007, 41, 214-220.	4.6	106
20	Comparative dissolution kinetics of biogenic and chemogenic uraninite under oxidizing conditions in the presence of carbonate. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6065-6083.	1.6	98
21	Speciation of naturally-accumulated uranium in an organic-rich soil of an alpine region (Switzerland). <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2082-2098.	1.6	95
22	Dissolution of Biogenic and Synthetic UO <sub>2</sub> under Varied Reducing Conditions. <i>Environmental Science &amp; Technology</i> , 2008, 42, 5600-5606.	4.6	91
23	Relative Reactivity of Biogenic and Chemogenic Uraninite and Biogenic Noncrystalline U(IV). <i>Environmental Science &amp; Technology</i> , 2013, 47, 9756-9763.	4.6	81
24	Biogeochemical Controls on the Product of Microbial U(VI) Reduction. <i>Environmental Science &amp; Technology</i> , 2013, 47, 12351-12358.	4.6	79
25	Genomic Insights into Mn(II) Oxidation by the Marine Alphaproteobacterium <i>Aurantimonas</i> sp. Strain SI85-9A1. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2646-2658.	1.4	77
26	Active sulfur cycling in the terrestrial deep subsurface. <i>ISME Journal</i> , 2020, 14, 1260-1272.	4.4	72
27	Fabric characteristics and mechanical response of bio-improved sand to various treatment conditions. <i>Geotechnique Letters</i> , 2016, 6, 50-57.	0.6	70
28	<i>In vitro</i> and <i>in vivo</i> characterization of <i>Clostridium scindens</i> bile acid transformations. <i>Gut Microbes</i> , 2019, 10, 481-503.	4.3	70
29	Oxidative Dissolution of Biogenic Uraninite in Groundwater at Old Rifle, CO. <i>Environmental Science &amp; Technology</i> , 2011, 45, 8748-8754.	4.6	66
30	Arsenic Methylation Dynamics in a Rice Paddy Soil Anaerobic Enrichment Culture. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10546-10554.	4.6	61
31	Biogeography of microbial bile acid transformations along the murine gut. <i>Journal of Lipid Research</i> , 2020, 61, 1450-1463.	2.0	61
32	The genome of the Gram-positive metal- and sulfate-reducing bacterium <i>Desulfotomaculum reducens</i> strain M1. <i>Environmental Microbiology</i> , 2010, 12, 2738-2754.	1.8	60
33	Citrate Enhanced Uranyl Adsorption on Goethite: An EXAFS Analysis. <i>Journal of Colloid and Interface Science</i> , 2001, 244, 211-219.	5.0	58
34	Biogenic non-crystalline U(IV) revealed as major component in uranium ore deposits. <i>Nature Communications</i> , 2017, 8, 15538.	5.8	57
35	Nanoscale mechanism of UO <sub>2</sub> formation through uranium reduction by magnetite. <i>Nature Communications</i> , 2020, 11, 4001.	5.8	57
36	Speciation and Reactivity of Uranium Products Formed during <i>In Situ</i> Bioremediation in a Shallow Alluvial Aquifer. <i>Environmental Science &amp; Technology</i> , 2014, 48, 12842-12850.	4.6	56

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37	Structural Similarities between Biogenic Uraninites Produced by Phylogenetically and Metabolically Diverse Bacteria. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8295-8301.	4.6	50
38	Arsenic Speciation in Mekong Delta Sediments Depends on Their Depositional Environment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 3431-3439.	4.6	50
39	Fe(III) reduction during pyruvate fermentation by <i>Desulfotomaculum reducens</i> strain MI-1. <i>Geobiology</i> , 2014, 12, 48-61.	1.1	44
40	Metal reduction by spores of <i>Desulfotomaculum reducens</i> . <i>Environmental Microbiology</i> , 2009, 11, 3007-3017.	1.8	42
41	Genome analysis of <i>Desulfotomaculum kuznetsovii</i> strain 17T reveals a physiological similarity with <i>Pelotomaculum thermopropionicum</i> strain SIT.. <i>Standards in Genomic Sciences</i> , 2013, 8, 69-87.	1.5	42
42	Fifteen years of microbiological investigation in Opalinus Clay at the Mont Terri rock laboratory (Switzerland). <i>Swiss Journal of Geosciences</i> , 2017, 110, 343-354.	0.5	42
43	Geochemical Control on Uranium(IV) Mobility in a Mining-Impacted Wetland. <i>Environmental Science &amp; Technology</i> , 2014, 48, 10062-10070.	4.6	41
44	Mechanism of Uranium Reduction and Immobilization in <i>Desulfovibrio vulgaris</i> Biofilms. <i>Environmental Science &amp; Technology</i> , 2015, 49, 10553-10561.	4.6	41
45	Impact of iron reduction on the metabolism of <i>Clostridium acetobutylicum</i> . <i>Environmental Microbiology</i> , 2019, 21, 3548-3563.	1.8	38
46	Biogeochemical Cycling by a Low-Diversity Microbial Community in Deep Groundwater. <i>Frontiers in Microbiology</i> , 2018, 9, 2129.	1.5	35
47	Rapid Mobilization of Noncrystalline U(IV) Coupled with FeS Oxidation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 1403-1411.	4.6	34
48	Effect of Mn(II) on the Structure and Reactivity of Biogenic Uraninite. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6541-6547.	4.6	32
49	U(VI) reduction by spores of <i>Clostridium acetobutylicum</i> . <i>Research in Microbiology</i> , 2010, 161, 765-771.	1.0	31
50	Speciation-Dependent Kinetics of Uranium(VI) Bioreduction. <i>Geomicrobiology Journal</i> , 2011, 28, 396-409.	1.0	31
51	Variability in Arsenic Methylation Efficiency across Aerobic and Anaerobic Microorganisms. <i>Environmental Science &amp; Technology</i> , 2020, 54, 14343-14351.	4.6	31
52	The Response of <i>Shewanella oneidensis</i> MR-1 to Cr(III) Toxicity Differs from that to Cr(VI). <i>Frontiers in Microbiology</i> , 2011, 2, 223.	1.5	29
53	A minimalistic microbial food web in an excavated deep subsurface clay rock. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiv138.	1.3	29
54	Chromate Resistance Mechanisms in <i>Leucobacter chromiirestiens</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	29

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55	Variability in DPA and Calcium Content in the Spores of Clostridium Species. <i>Frontiers in Microbiology</i> , 2016, 7, 1791.	1.5	27
56	Association of uranyl with the cell wall of <i>Pseudomonas fluorescens</i> inhibits metabolism. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 4057-4066.	1.6	25
57	Products of in Situ Corrosion of Depleted Uranium Ammunition in Bosnia and Herzegovina Soils. <i>Environmental Science &amp; Technology</i> , 2016, 50, 12266-12274.	4.6	25
58	Microbial communities associated with uranium in-situ recovery mining process are related to acid mine drainage assemblages. <i>Science of the Total Environment</i> , 2018, 628-629, 26-35.	3.9	25
59	Membrane Vesicles as a Novel Strategy for Shedding Encrusted Cell Surfaces. <i>Minerals (Basel)</i> , 2017, 7, 107.	0.8	24
60	The anaerobic corrosion of carbon steel in compacted bentonite exposed to natural Opalinus Clay porewater containing native microbial populations. <i>Corrosion Engineering Science and Technology</i> , 2017, 52, 101-112.	0.7	24
61	Long-Term in Situ Oxidation of Biogenic Uraninite in an Alluvial Aquifer: Impact of Dissolved Oxygen and Calcium. <i>Environmental Science &amp; Technology</i> , 2015, 49, 7340-7347.	4.6	23
62	Complete genome sequence of the sulfate-reducing firmicute <i>Desulfotomaculum ruminis</i> type strain (DLT). <i>Standards in Genomic Sciences</i> , 2012, 7, 304-319.	1.5	22
63	Characterization of the surfaceome of the metal-reducing bacterium <i>Desulfotomaculum reducens</i> . <i>Frontiers in Microbiology</i> , 2014, 5, 432.	1.5	22
64	Energy efficiency and biological interactions define the core microbiome of deep oligotrophic groundwater. <i>Nature Communications</i> , 2021, 12, 4253.	5.8	22
65	Chemical speciation and toxicity of metals assessed by three bioluminescence-based assays using marine organisms. <i>Environmental Toxicology</i> , 2004, 19, 161-178.	2.1	21
66	Composition, stability, and measurement of reduced uranium phases for groundwater bioremediation at Old Rifle, CO. <i>Applied Geochemistry</i> , 2011, 26, S167-S169.	1.4	21
67	Colloidal Size and Redox State of Uranium Species in the Porewater of a Pristine Mountain Wetland. <i>Environmental Science &amp; Technology</i> , 2019, 53, 9361-9369.	4.6	21
68	The Response of <i>Desulfotomaculum reducens</i> MI-1 to U(VI) Exposure: A Transcriptomic Study. <i>Geomicrobiology Journal</i> , 2011, 28, 483-496.	1.0	19
69	As release under the microbial sulfate reduction during redox oscillations in the upper Mekong delta aquifers, Vietnam: A mechanistic study. <i>Science of the Total Environment</i> , 2019, 663, 718-730.	3.9	19
70	Effect of Aging on the Stability of Microbially Reduced Uranium in Natural Sediment. <i>Environmental Science &amp; Technology</i> , 2020, 54, 613-620.	4.6	19
71	Ligand-Supported Facile Conversion of Uranyl(VI) into Uranium(IV) in Organic and Aqueous Media. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6756-6759.	7.2	19
72	Impact of Microbial Mn Oxidation on the Remobilization of Bioreduced U(IV). <i>Environmental Science &amp; Technology</i> , 2013, 47, 3606-3613.	4.6	18

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73	Rates of microbial hydrogen oxidation and sulfate reduction in Opalinus Clay rock. <i>Applied Geochemistry</i> , 2016, 72, 42-50.	1.4	18
74	Fate of Uranyl in a Quaternary System Composed of Uranyl, Citrate, Goethite, and <i>Pseudomonas fluorescens</i> . <i>Environmental Science &amp; Technology</i> , 2003, 37, 3555-3559.	4.6	17
75	Role of Iron Sulfide Phases in the Stability of Noncrystalline Tetravalent Uranium in Sediments. <i>Environmental Science &amp; Technology</i> , 2020, 54, 4840-4846.	4.6	17
76	Biological Reduction of a U(V)â€“Organic Ligand Complex. <i>Environmental Science &amp; Technology</i> , 2021, 55, 4753-4761.	4.6	16
77	Active anaerobic methane oxidation and sulfur disproportionation in the deep terrestrial subsurface. <i>ISME Journal</i> , 2022, 16, 1583-1593.	4.4	16
78	Meta-omics-aided isolation of an elusive anaerobic arsenic-methylating soil bacterium. <i>ISME Journal</i> , 2022, 16, 1740-1749.	4.4	16
79	Associations between inorganic arsenic in rice and groundwater arsenic in the Mekong Delta. <i>Chemosphere</i> , 2021, 265, 129092.	4.2	15
80	Phylogenetic comparison of <i>Desulfotomaculum</i> species of subgroup 1a and description of <i>Desulfotomaculum reducens</i> sp. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 762-767.	0.8	15
81	H <sub>2</sub> -fuelled microbial metabolism in Opalinus Clay. <i>Applied Clay Science</i> , 2019, 174, 69-76.	2.6	14
82	Microbially Mediated Release of As from Mekong Delta Peat Sediments. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10208-10217.	4.6	12
83	Chromate tolerance and removal of bacterial strains isolated from uncontaminated and chromium-polluted environments. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 56.	1.7	12
84	Effect of Competing Electron Acceptors on the Reduction of U(VI) by <i>Desulfotomaculum reducens</i> . <i>Geomicrobiology Journal</i> , 2010, 27, 435-443.	1.0	11
85	Uranium Isotope Fractionation during the Anoxic Mobilization of Noncrystalline U(IV) by Ligand Complexation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7959-7969.	4.6	11
86	Environmental Mineralogy: New Challenges, New Materials. <i>Elements</i> , 2015, 11, 247-252.	0.5	10
87	The Small RNA RyhB Is a Regulator of Cytochrome Expression in <i>Shewanella oneidensis</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 268.	1.5	10
88	Beam-induced oxidation of monomeric U(IV)â€“Species. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 197-199.	1.0	9
89	Combined scanning transmission X-ray and electron microscopy for the characterization of bacterial endospores. <i>FEMS Microbiology Letters</i> , 2014, 358, 188-193.	0.7	8
90	Persistence of the Isotopic Signature of Pentavalent Uranium in Magnetite. <i>Environmental Science &amp; Technology</i> , 2022, 56, 1753-1762.	4.6	7

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91	Biostimulation as a sustainable solution for acid neutralization and uranium immobilization post acidic in-situ recovery. <i>Science of the Total Environment</i> , 2022, 822, 153597.	3.9	6
92	Growth and Persistence of an Aerobic Microbial Community in Wyoming Bentonite MX-80 Despite Anoxic in situ Conditions. <i>Frontiers in Microbiology</i> , 2022, 13, 858324.	1.5	6
93	Interplay of S and As in Mekong Delta sediments during redox oscillations. <i>Geoscience Frontiers</i> , 2019, 10, 1715-1729.	4.3	5
94	Ab initio and steady-state models for uranium isotope fractionation in multi-step biotic and abiotic reduction. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 307, 212-227.	1.6	5
95	Investigation of sporulation in the <i>D</i> <i>desulfotomaculum</i> genus: a genomic comparison with the genera <i>B</i> and <i>C</i> <i>lostridium</i> . <i>Environmental Microbiology Reports</i> , 2014, 6, 756-766.	1.0	3
96	Fifteen years of microbiological investigation in Opalinus Clay at the Mont Terri rock laboratory (Switzerland). <i>Swiss Journal of Geosciences Supplement</i> , 2018, , 345-356.	0.0	2
97	<i>In Situ</i> Biostimulation of Cr(VI) Reduction in a Fast-Flowing Oxidic Aquifer. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 2018-2030.	1.2	2
98	Implantation of <i>Bacillus pseudomycoloides</i> Chromate Transporter Increases Chromate Tolerance in <i>Bacillus subtilis</i> . <i>Frontiers in Microbiology</i> , 2022, 13, 842623.	1.5	2
99	Molecular techniques for understanding microbial abundance and activity in clay barriers used for geodisposal. , 2021, , 71-96.		1
100	Uranium reduction by <i>Geobacter sulfurreducens</i> in the presence or absence of iron. , 2008, , 725-732.		1
101	Environmental implications of Mn(II)-reacted biogenic UO <sub>2</sub> . , 2008, , 755-762.		0