Rizlan Bernier-Latmani

List of Publications by Year in Descending Order

100 papers	4,094 citations	35 h-index	62 g-index
107 ext. papers	4,771 ext. citations	7.5 avg, IF	5.41 L-index

#	Paper	IF	Citations
100	Biostimulation as a sustainable solution for acid neutralization and uranium immobilization post acidic in-situ recovery.. *Science of the Total Environment*, **2022**, 153597	10.2	1
99	Implantation of Chromate Transporter Increases Chromate Tolerance in .. *Frontiers in Microbiology*, **2022**, 13, 842623	5.7	
98	Growth and Persistence of an Aerobic Microbial Community in Wyoming Bentonite MX-80 Despite Anoxic Conditions.. *Frontiers in Microbiology*, **2022**, 13, 858324	5.7	0
97	Uranium Isotope Fractionation during the Anoxic Mobilization of Noncrystalline U(IV) by Ligand Complexation. *Environmental Science & Technology*, **2021**, 55, 7959-7969	10.3	1
96	Energy efficiency and biological interactions define the core microbiome of deep oligotrophic groundwater. *Nature Communications*, **2021**, 12, 4253	17.4	6
95	Molecular techniques for understanding microbial abundance and activity in clay barriers used for geodisposal **2021**, 71-96		0
94	Associations between inorganic arsenic in rice and groundwater arsenic in the Mekong Delta. *Chemosphere*, **2021**, 265, 129092	8.4	8
93	Biological Reduction of a U(V)-Organic Ligand Complex. *Environmental Science & Technology*, **2021**, 55, 4753-4761	10.3	5
92	Ab initio and steady-state models for uranium isotope fractionation in multi-step biotic and abiotic reduction. *Geochimica Et Cosmochimica Acta*, **2021**, 307, 212-227	5.5	2
91	Role of Iron Sulfide Phases in the Stability of Noncrystalline Tetravalent Uranium in Sediments. *Environmental Science & Technology*, **2020**, 54, 4840-4846	10.3	8
90	Active sulfur cycling in the terrestrial deep subsurface. *ISME Journal*, **2020**, 14, 1260-1272	11.9	27
89	Ligand-Supported Facile Conversion of Uranyl(VI) into Uranium(IV) in Organic and Aqueous Media. *Angewandte Chemie - International Edition*, **2020**, 59, 6756-6759	16.4	14
88	In Situ Biostimulation of Cr(VI) Reduction in a Fast-Flowing Oxic Aquifer. *ACS Earth and Space Chemistry*, **2020**, 4, 2018-2030	3.2	2
87	Biogeography of microbial bile acid transformations along the murine gut. *Journal of Lipid Research* , **2020**, 61, 1450-1463	6.3	17
86	Nanoscale mechanism of UO formation through uranium reduction by magnetite. *Nature Communications*, **2020**, 11, 4001	17.4	23
85	Variability in Arsenic Methylation Efficiency across Aerobic and Anaerobic Microorganisms. *Environmental Science & Technology*, **2020**, 54, 14343-14351	10.3	3
84	Effect of Aging on the Stability of Microbially Reduced Uranium in Natural Sediment. *Environmental Science & Technology*, **2020**, 54, 613-620	10.3	13

83	H2-fuelled microbial metabolism in Opalinus Clay. *Applied Clay Science*, **2019**, 174, 69-76	5.2	7
82	Impact of iron reduction on the metabolism of Clostridium acetobutylicum. *Environmental Microbiology*, **2019**, 21, 3548-3563	5.2	17
81	Chromate tolerance and removal of bacterial strains isolated from uncontaminated and chromium-polluted environments. *World Journal of Microbiology and Biotechnology*, **2019**, 35, 56	4.4	7
80	As release under the microbial sulfate reduction during redox oscillations in the upper Mekong delta aquifers, Vietnam: A mechanistic study. *Science of the Total Environment*, **2019**, 663, 718-730	10.2	10
79	Interplay of S and As in Mekong Delta sediments during redox oscillations. *Geoscience Frontiers*, **2019**, 10, 1715-1729	6	4
78	Microbially Mediated Release of As from Mekong Delta Peat Sediments. *Environmental Science & Technology*, **2019**, 53, 10208-10217	10.3	7
77	Colloidal Size and Redox State of Uranium Species in the Porewater of a Pristine Mountain Wetland. *Environmental Science & Technology*, **2019**, 53, 9361-9369	10.3	8
76	and characterization of bile acid transformations. *Gut Microbes*, **2019**, 10, 481-503	8.8	38
75	Microbial communities associated with uranium in-situ recovery mining process are related to acid mine drainage assemblages. *Science of the Total Environment*, **2018**, 628-629, 26-35	10.2	15
74	Arsenic Speciation in Mekong Delta Sediments Depends on Their Depositional Environment. *Environmental Science & Technology*, **2018**, 52, 3431-3439	10.3	34
73	The Small RNA RyhB Is a Regulator of Cytochrome Expression in. *Frontiers in Microbiology*, **2018**, 9, 268	5.7	8
72	Fifteen years of microbiological investigation in Opalinus Clay at the Mont Terri rock laboratory (Switzerland). *Swiss Journal of Geosciences Supplement*, **2018**, 345-356		1
71	Biogeochemical Cycling by a Low-Diversity Microbial Community in Deep Groundwater. *Frontiers in Microbiology*, **2018**, 9, 2129	5.7	20
70	Chromate Resistance Mechanisms in Leucobacter chromiiresistens. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	16
69	Biogenic non-crystalline U revealed as major component in uranium ore deposits. *Nature Communications*, **2017**, 8, 15538	17.4	44
68	The anaerobic corrosion of carbon steel in compacted bentonite exposed to natural Opalinus Clay porewater containing native microbial populations. *Corrosion Engineering Science and Technology*, **2017**, 52, 101-112	1.7	15
67	Arsenic Methylation Dynamics in a Rice Paddy Soil Anaerobic Enrichment Culture. *Environmental Science & Technology*, **2017**, 51, 10546-10554	10.3	32
66	Fifteen years of microbiological investigation in Opalinus Clay at the Mont Terri rock laboratory (Switzerland). *Swiss Journal of Geosciences*, **2017**, 110, 343-354	2.1	31

65	Fabric characteristics and mechanical response of bio-improved sand to various treatment conditions. *Geotechnique Letters*, **2016**, 6, 50-57	1.7	48
64	Products of in Situ Corrosion of Depleted Uranium Ammunition in Bosnia and Herzegovina Soils. *Environmental Science & Technology*, **2016**, 50, 12266-12274	10.3	15
63	Rapid Mobilization of Noncrystalline U(IV) Coupled with FeS Oxidation. *Environmental Science & Technology*, **2016**, 50, 1403-11	10.3	26
62	Phylogenetic comparison of species of subgroup 1a and description of sp. nov. *International Journal of Systematic and Evolutionary Microbiology*, **2016**, 66, 762-767	2.2	6
61	Functional Intestinal Bile Acid 7□Dehydroxylation by Associated with Protection from Infection in a Gnotobiotic Mouse Model. *Frontiers in Cellular and Infection Microbiology*, **2016**, 6, 191	5.9	100
60	Variability in DPA and Calcium Content in the Spores of Species. *Frontiers in Microbiology*, **2016**, 7, 1791	5.7	16
59	Reconstructing a hydrogen-driven microbial metabolic network in Opalinus Clay rock. *Nature Communications*, **2016**, 7, 12770	17.4	61
58	A minimalistic microbial food web in an excavated deep subsurface clay rock. *FEMS Microbiology Ecology*, **2016**, 92,	4.3	20
57	Rates of microbial hydrogen oxidation and sulfate reduction in Opalinus Clay rock. *Applied Geochemistry*, **2016**, 72, 42-50	3.5	12
56	Long-term in situ oxidation of biogenic uraninite in an alluvial aquifer: impact of dissolved oxygen and calcium. *Environmental Science & Technology*, **2015**, 49, 7340-7	10.3	21
55	Uranium isotopes fingerprint biotic reduction. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 5619-24	11.5	105
54	Mechanism of Uranium Reduction and Immobilization in Desulfovibrio vulgaris Biofilms. *Environmental Science & Technology*, **2015**, 49, 10553-61	10.3	27
53	Environmental Mineralogy: New Challenges, New Materials. *Elements*, **2015**, 11, 247-252	3.8	6
52	Geochemical controls on U immobilization in the subsurface **2015**, 477-486		
51	Fe(III) reduction during pyruvate fermentation by Desulfotomaculum reducens strain MI-1. *Geobiology*, **2014**, 12, 48-61	4.3	37
50	Geochemical control on uranium(IV) mobility in a mining-impacted wetland. *Environmental Science & Technology*, **2014**, 48, 10062-70	10.3	35
49	Speciation and reactivity of uranium products formed during in situ bioremediation in a shallow alluvial aquifer. *Environmental Science & Technology*, **2014**, 48, 12842-50	10.3	42
48	Investigation of sporulation in the Desulfotomaculum genus: a genomic comparison with the genera Bacillus and Clostridium. *Environmental Microbiology Reports*, **2014**, 6, 756-66	3.7	3

47	Characterization of the surfaceome of the metal-reducing bacterium Desulfotomaculum reducens. *Frontiers in Microbiology*, **2014**, 5, 432	5.7	13
46	Combined scanning transmission X-ray and electron microscopy for the characterization of bacterial endospores. *FEMS Microbiology Letters*, **2014**, 358, 188-93	2.9	8
45	Membrane Vesicles as a Novel Strategy for Shedding Encrusted Cell Surfaces. *Minerals (Basel, Switzerland)*, **2014**, 4, 74-88	2.4	14
44	The product of microbial uranium reduction includes multiple species with U(IV)‑phosphate coordination. *Geochimica Et Cosmochimica Acta*, **2014**, 131, 115-127	5.5	84
43	Biogeochemical controls on the product of microbial U(VI) reduction. *Environmental Science & Technology*, **2013**, 47, 12351-8	10.3	67
42	Mobile uranium(IV)-bearing colloids in a mining-impacted wetland. *Nature Communications*, **2013**, 4, 2942	17.4	112
41	Beam-induced oxidation of monomeric U(IV)‑species. *Journal of Synchrotron Radiation*, **2013**, 20, 197-9	2.4	9
40	Silver release from silver nanoparticles in natural waters. *Environmental Science & Technology*, **2013**, 47, 4140-6	10.3	228
39	Relative reactivity of biogenic and chemogenic uraninite and biogenic noncrystalline U(IV). *Environmental Science & Technology*, **2013**, 47, 9756-63	10.3	69
38	Impact of microbial Mn oxidation on the remobilization of bioreduced U(IV). *Environmental Science & Technology*, **2013**, 47, 3606-13	10.3	15
37	Uranium redox transition pathways in acetate-amended sediments. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 4506-4511	11.5	138
36	Genome analysis of Desulfotomaculum kuznetsovii strain 17(T) reveals a physiological similarity with Pelotomaculum thermopropionicum strain SI(T). *Standards in Genomic Sciences*, **2013**, 8, 69-87		29
35	Quantitative separation of monomeric U(IV) from UO2 in products of U(VI) reduction. *Environmental Science & Technology*, **2012**, 46, 6150-7	10.3	89
34	Complete genome sequence of the sulfate-reducing firmicute Desulfotomaculum ruminis type strain (DL(T)). *Standards in Genomic Sciences*, **2012**, 7, 304-19		18
33	Role of proteins in controlling selenium nanoparticle size. *Nanotechnology*, **2011**, 22, 195605	3.4	110
32	Composition, stability, and measurement of reduced uranium phases for groundwater bioremediation at Old Rifle, CO. *Applied Geochemistry*, **2011**, 26, S167-S169	3.5	21
31	Products of abiotic U(VI) reduction by biogenic magnetite and vivianite. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 2512-2528	5.5	114
30	Uranium speciation and stability after reductive immobilization in aquifer sediments. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 6497-6510	5.5	95

29	The Response of Shewanella oneidensis MR-1 to Cr(III) Toxicity Differs from that to Cr(VI). *Frontiers in Microbiology*, **2011**, 2, 223	5.7	22
28	Oxidative Dissolution of Biogenic Uraninite in Groundwater at Old Rifle, CO. *Environmental Science & Technology*, **2011**, 45, 8748-54	10.3	63
27	The Response of Desulfotomaculum reducens MI-1 to U(VI) Exposure: A Transcriptomic Study. *Geomicrobiology Journal*, **2011**, 28, 483-496	2.5	15
26	Speciation-Dependent Kinetics of Uranium(VI) Bioreduction. *Geomicrobiology Journal*, **2011**, 28, 396-409	2.5	25
25	The genome of the Gram-positive metal- and sulfate-reducing bacterium Desulfotomaculum reducens strain MI-1. *Environmental Microbiology*, **2010**, 12, 2738-54	5.2	51
24	Effect of Competing Electron Acceptors on the Reduction of U(VI) by Desulfotomaculum reducens. *Geomicrobiology Journal*, **2010**, 27, 435-443	2.5	10
23	Non-uraninite products of microbial U(VI) reduction. *Environmental Science & Technology*, **2010**, 44, 9456-62	10.3	185
22	Speciation of naturally-accumulated uranium in an organic-rich soil of an alpine region (Switzerland). *Geochimica Et Cosmochimica Acta*, **2010**, 74, 2082-2098	5.5	80
21	U(VI) reduction by spores of Clostridium acetobutylicum. *Research in Microbiology*, **2010**, 161, 765-71	4	27
20	Binding of silver nanoparticles to bacterial proteins depends on surface modifications and inhibits enzymatic activity. *Environmental Science & Technology*, **2010**, 44, 2163-8	10.3	201
19	SunCHem: an integrated process for the hydrothermal production of methane from microalgae and CO2 mitigation. *Journal of Applied Phycology*, **2009**, 21, 529-541	3.2	112
18	Metal reduction by spores of Desulfotomaculum reducens. *Environmental Microbiology*, **2009**, 11, 3007-17	5.2	38
17	Effect of Mn(II) on the structure and reactivity of biogenic uraninite. *Environmental Science & Technology*, **2009**, 43, 6541-7	10.3	30
16	Comparative dissolution kinetics of biogenic and chemogenic uraninite under oxidizing conditions in the presence of carbonate. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 6065-6083	5.5	86
15	Structural similarities between biogenic uraninites produced by phylogenetically and metabolically diverse bacteria. *Environmental Science & Technology*, **2009**, 43, 8295-301	10.3	44
14	Structure of biogenic uraninite produced by Shewanella oneidensis strain MR-1. *Environmental Science & Technology*, **2008**, 42, 7898-904	10.3	111
13	Dissolution of biogenic and synthetic UO2 under varied reducing conditions. *Environmental Science & Technology*, **2008**, 42, 5600-6	10.3	83
12	Genomic insights into Mn(II) oxidation by the marine alphaproteobacterium Aurantimonas sp. strain SI85-9A1. *Applied and Environmental Microbiology*, **2008**, 74, 2646-58	4.8	68

11	Biogenic Uraninite Nanoparticles and Their Importance for Uranium Remediation. *Elements*, **2008**, 4, 407-412	3.8	126
10	Uranyl reduction by Geobacter sulfurreducens in the presence or absence of iron **2008**, 725-732		0
9	Environmental implications of Mn(II)-reacted biogenic UO2 **2008**, 755-762		
8	Toxicity of Cr(lll) to Shewanella sp. strain MR-4 during Cr(VI) reduction. *Environmental Science & Technology*, **2007**, 41, 214-20	10.3	96
7	Global transcriptional profiling of Shewanella oneidensis MR-1 during Cr(VI) and U(VI) reduction. *Applied and Environmental Microbiology*, **2005**, 71, 7453-60	4.8	114
6	Chemical speciation and toxicity of metals assessed by three bioluminescence-based assays using marine organisms. *Environmental Toxicology*, **2004**, 19, 161-78	4.2	20
5	Cometabolism of Cr(VI) by Shewanella oneidensis MR-1 produces cell-associated reduced chromium and inhibits growth. *Biotechnology and Bioengineering*, **2003**, 83, 627-37	4.9	132
4	Fate of uranyl in a quaternary system composed of uranyl, citrate, goethite, and Pseudomonas fluorescens. *Environmental Science & Technology*, **2003**, 37, 3555-9	10.3	16
3	Association of uranyl with the cell wall of Pseudomonas fluorescens inhibits metabolism. *Geochimica Et Cosmochimica Acta*, **2003**, 67, 4057-4066	5.5	24
2	Citrate Enhanced Uranyl Adsorption on Goethite: An EXAFS Analysis. *Journal of Colloid and Interface Science*, **2001**, 244, 211-219	9.3	55
1	Energy efficiency and biological interactions define the core microbiome of deep oligotrophic groundwater		2