# 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 | Persistence of the Isotopic Signature of Pentavalent Uranium in Magnetite. Environmental Science & Technology, 2022, 56, 1753-1762. | 4.6 | 7 |
| 2 | Biostimulation as a sustainable solution for acid neutralization and uranium immobilization post acidic in-situ recovery. Science of the Total Environment, 2022, 822, 153597. | 3.9 | 6 |
| 3 | Active anaerobic methane oxidation and sulfur disproportionation in the deep terrestrial subsurface. ISME Journal, 2022, 16, 1583-1593. | 4.4 | 16 |
| 4 | Meta-omics-aided isolation of an elusive anaerobic arsenic-methylating soil bacterium. ISME Journal, 2022, 16, 1740-1749. | 4.4 | 16 |
| 5 | Implantation of Bacillus pseudomycoides Chromate Transporter Increases Chromate Tolerance in Bacillus subtilis. Frontiers in Microbiology, 2022, 13, 842623. | 1.5 | 2 |
| 6 | Growth and Persistence of an Aerobic Microbial Community in Wyoming Bentonite MX-80 Despite Anoxic in situ Conditions. Frontiers in Microbiology, 2022, 13, 858324. | 1.5 | 6 |
| 7 | Molecular techniques for understanding microbial abundance and activity in clay barriers used for geodisposal. , 2021, , 71-96. |  | 1 |
| 8 | Associations between inorganic arsenic in rice and groundwater arsenic in the Mekong Delta. Chemosphere, 2021, 265, 129092. | 4.2 | 15 |
| 9 | Biological Reduction of a U(V)â€"Organic Ligand Complex. Environmental Science & Technology, 2021, 55, 4753-4761. | 4.6 | 16 |
| 10 | Uranium Isotope Fractionation during the Anoxic Mobilization of Noncrystalline U(IV) by Ligand Complexation. Environmental Science & Technology, 2021, 55, 7959-7969. | 4.6 | 11 |
| 11 | Energy efficiency and biological interactions define the core microbiome of deep oligotrophic groundwater. Nature Communications, 2021, 12, 4253. | 5.8 | 22 |
| 12 | 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. | 1.6 | 5 |
| 13 | Effect of Aging on the Stability of Microbially Reduced Uranium in Natural Sediment. Environmental Science & Technology, 2020, 54, 613-620. | 4.6 | 19 |
| 14 | Biogeography of microbial bile acid transformations along the murine gut. Journal of Lipid Research, 2020, 61, 1450-1463. | 2.0 | 61 |
| 15 | Nanoscale mechanism of UO2 formation through uranium reduction by magnetite. Nature Communications, 2020, 11, 4001. | 5.8 | 57 |
| 16 | Variability in Arsenic Methylation Efficiency across Aerobic and Anaerobic Microorganisms. Environmental Science & Technology, 2020, 54, 14343-14351. | 4.6 | 31 |
| 17 | Role of Iron Sulfide Phases in the Stability of Noncrystalline Tetravalent Uranium in Sediments. Environmental Science & Technology, 2020, 54, 4840-4846. | 4.6 | 17 |
| 18 | Active sulfur cycling in the terrestrial deep subsurface. ISME Journal, 2020, 14, 1260-1272. | 4.4 | 72 |

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|---|---|---|---|
| 19 | Ligandâ€Supported Facile Conversion of Uranyl(VI) into Uranium(IV) in Organic and Aqueous Media. Angewandte Chemie - International Edition, 2020, 59, 6756-6759. | 7.2 | 19 |
| 20 | <i>In Situ</i> Biostimulation of Cr(VI) Reduction in a Fast-Flowing Oxic Aquifer. ACS Earth and Space Chemistry, 2020, 4, 2018-2030. | 1.2 | 2 |
| 21 | Interplay of S and As in Mekong Delta sediments during redox oscillations. Geoscience Frontiers, 2019, 10, 1715-1729. | 4.3 | 5 |
| 22 | Microbially Mediated Release of As from Mekong Delta Peat Sediments. Environmental Science & Technology, 2019, 53, 10208-10217. | 4.6 | 12 |
| 23 | Colloidal Size and Redox State of Uranium Species in the Porewater of a Pristine Mountain Wetland. Environmental Science & Technology, 2019, 53, 9361-9369. | 4.6 | 21 |
| 24 | H2-fuelled microbial metabolism in Opalinus Clay. Applied Clay Science, 2019, 174, 69-76. | 2.6 | 14 |
| 25 | Impact of iron reduction on the metabolism of <i>Clostridium acetobutylicum</i>. Environmental Microbiology, 2019, 21, 3548-3563. | 1.8 | 38 |
| 26 | Chromate tolerance and removal of bacterial strains isolated from uncontaminated and chromium-polluted environments. World Journal of Microbiology and Biotechnology, 2019, 35, 56. | 1.7 | 12 |
| 27 | 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. | 3.9 | 19 |
| 28 | <i>In vitro</i> and <i>in vivo</i> characterization of <i>Clostridium scindens</i> bile acid transformations. Gut Microbes, 2019, 10, 481-503. | 4.3 | 70 |
| 29 | 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. | 3.9 | 25 |
| 30 | Arsenic Speciation in Mekong Delta Sediments Depends on Their Depositional Environment. Environmental Science & Technology, 2018, 52, 3431-3439. | 4.6 | 50 |
| 31 | Biogeochemical Cycling by a Low-Diversity Microbial Community in Deep Groundwater. Frontiers in Microbiology, 2018, 9, 2129. | 1.5 | 35 |
| 32 | Chromate Resistance Mechanisms in Leucobacter chromiiresistens. Applied and Environmental Microbiology, 2018, 84, . | 1.4 | 29 |
| 33 | The Small RNA RyhB Is a Regulator of Cytochrome Expression in Shewanella oneidensis. Frontiers in Microbiology, 2018, 9, 268. | 1.5 | 10 |
| 34 | Fifteen years of microbiological investigation in Opalinus Clay at the Mont Terri rock laboratory (Switzerland). Swiss Journal of Geosciences Supplement, 2018, , 345-356. | 0.0 | 2 |
| 35 | Biogenic non-crystalline U(IV) revealed as major component in uranium ore deposits. Nature Communications, 2017, 8, 15538. | 5.8 | 57 |
| 36 | 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. | 0.7 | 24 |

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| 37 | Arsenic Methylation Dynamics in a Rice Paddy Soil Anaerobic Enrichment Culture. Environmental Science & Technology, 2017, 51, 10546-10554. | 4.6 | 61 |
| 38 | Fifteen years of microbiological investigation in Opalinus Clay at the Mont Terri rock laboratory (Switzerland). Swiss Journal of Geosciences, 2017, 110, 343-354. | 0.5 | 42 |
| 39 | Functional Intestinal Bile Acid 7Î±-Dehydroxylation by Clostridium scindens Associated with Protection from Clostridium difficile Infection in a Gnotobiotic Mouse Model. Frontiers in Cellular and Infection Microbiology, 2016, 6, 191. | 1.8 | 151 |
| 40 | Variability in DPA and Calcium Content in the Spores of Clostridium Species. Frontiers in Microbiology, 2016, 7, 1791. | 1.5 | 27 |
| 41 | Reconstructing a hydrogen-driven microbial metabolic network in Opalinus Clay rock. Nature Communications, 2016, 7, 12770. | 5.8 | 120 |
| 42 | A minimalistic microbial food web in an excavated deep subsurface clay rock. FEMS Microbiology Ecology, 2016, 92, fiv138. | 1.3 | 29 |
| 43 | Rates of microbial hydrogen oxidation and sulfate reduction in Opalinus Clay rock. Applied Geochemistry, 2016, 72, 42-50. | 1.4 | 18 |
| 44 | Fabric characteristics and mechanical response of bio-improved sand to various treatment conditions. Geotechnique Letters, 2016, 6, 50-57. | 0.6 | 70 |
| 45 | Products of in Situ Corrosion of Depleted Uranium Ammunition in Bosnia and Herzegovina Soils. Environmental Science & Technology, 2016, 50, 12266-12274. | 4.6 | 25 |
| 46 | Rapid Mobilization of Noncrystalline U(IV) Coupled with FeS Oxidation. Environmental Science & Technology, 2016, 50, 1403-1411. | 4.6 | 34 |
| 47 | Phylogenetic comparison of Desulfotomaculum species of subgroup 1a and description of Desulfotomaculum reducens sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 762-767. | 0.8 | 15 |
| 48 | Long-Term in Situ Oxidation of Biogenic Uraninite in an Alluvial Aquifer: Impact of Dissolved Oxygen and Calcium. Environmental Science & Technology, 2015, 49, 7340-7347. | 4.6 | 23 |
| 49 | Uranium isotopes fingerprint biotic reduction. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5619-5624. | 3.3 | 133 |
| 50 | Mechanism of Uranium Reduction and Immobilization in <i>Desulfovibrio vulgaris</i> Biofilms. Environmental Science & Technology, 2015, 49, 10553-10561. | 4.6 | 41 |
| 51 | Environmental Mineralogy: New Challenges, New Materials. Elements, 2015, 11, 247-252. | 0.5 | 10 |
| 52 | Investigation of sporulation in the <scp><i>D</i></scp><i>esulfotomaculum</i> genus: a genomic comparison with the genera <scp><i>B</i></scp><i>acillus</i> and <scp><i>C</i></scp><i>lostridium</i>. Environmental Microbiology Reports, 2014, 6, 756-766. | 1.0 | 3 |
| 53 | Characterization of the surfaceome of the metal-reducing bacterium Desulfotomaculum reducens. Frontiers in Microbiology, 2014, 5, 432. | 1.5 | 22 |
| 54 | Combined scanning transmission X-ray and electron microscopy for the characterization of bacterial endospores. FEMS Microbiology Letters, 2014, 358, 188-193. | 0.7 | 8 |

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|---|---|---|---|
| 55 | Membrane Vesicles as a Novel Strategy for Shedding Encrusted Cell Surfaces. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 0.8 | 24 |
| 56 | The product of microbial uranium reduction includes multiple species with U(IV)â€“phosphate coordination. Geochimica Et Cosmochimica Acta, 2014, 131, 115-127. | 1.6 | 114 |
| 57 | Fe(III) reduction during pyruvate fermentation by <i><scp>D</scp>esulfotomaculum reducens</i> strain <scp>MI</scp>â€1. Geobiology, 2014, 12, 48-61. | 1.1 | 44 |
| 58 | Geochemical Control on Uranium(IV) Mobility in a Mining-Impacted Wetland. Environmental Science & Technology, 2014, 48, 10062-10070. | 4.6 | 41 |
| 59 | Speciation and Reactivity of Uranium Products Formed during <i>in Situ</i> Bioremediation in a Shallow Alluvial Aquifer. Environmental Science & Technology, 2014, 48, 12842-12850. | 4.6 | 56 |
| 60 | Biogeochemical Controls on the Product of Microbial U(VI) Reduction. Environmental Science & Technology, 2013, 47, 12351-12358. | 4.6 | 79 |
| 61 | Mobile uranium(IV)-bearing colloids in a mining-impacted wetland. Nature Communications, 2013, 4, 2942. | 5.8 | 151 |
| 62 | Beam-induced oxidation of monomeric U(IV)Âspecies. Journal of Synchrotron Radiation, 2013, 20, 197-199. | 1.0 | 9 |
| 63 | Silver Release from Silver Nanoparticles in Natural Waters. Environmental Science & Technology, 2013, 47, 4140-4146. | 4.6 | 265 |
| 64 | Relative Reactivity of Biogenic and Chemogenic Uraninite and Biogenic Noncrystalline U(IV). Environmental Science & Technology, 2013, 47, 9756-9763. | 4.6 | 81 |
| 65 | Impact of Microbial Mn Oxidation on the Remobilization of Bioreduced U(IV). Environmental Science & Technology, 2013, 47, 3606-3613. | 4.6 | 18 |
| 66 | 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. | 3.3 | 161 |
| 67 | Genome analysis of Desulfotomaculum kuznetsovii strain 17T reveals a physiological similarity with Pelotomaculum thermopropionicum strain SIT.. Standards in Genomic Sciences, 2013, 8, 69-87. | 1.5 | 42 |
| 68 | Complete genome sequence of the sulfate-reducing firmicute Desulfotomaculum ruminis type strain (DLT). Standards in Genomic Sciences, 2012, 7, 304-319. | 1.5 | 22 |
| 69 | Quantitative Separation of Monomeric U(IV) from UO<sub>2</sub> in Products of U(VI) Reduction. Environmental Science & Technology, 2012, 46, 6150-6157. | 4.6 | 107 |
| 70 | Oxidative Dissolution of Biogenic Uraninite in Groundwater at Old Rifle, CO. Environmental Science & Technology, 2011, 45, 8748-8754. | 4.6 | 66 |
| 71 | The Response of<i>Desulfotomaculum reducens</i>MI-1 to U(VI) Exposure: A Transcriptomic Study. Geomicrobiology Journal, 2011, 28, 483-496. | 1.0 | 19 |
| 72 | Role of proteins in controlling selenium nanoparticle size. Nanotechnology, 2011, 22, 195605. | 1.3 | 144 |

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|---|---|---|---|
| 73 | Composition, stability, and measurement of reduced uranium phases for groundwater bioremediation at Old Rifle, CO. Applied Geochemistry, 2011, 26, S167-S169. | 1.4 | 21 |
| 74 | Products of abiotic U(VI) reduction by biogenic magnetite and vivianite. Geochimica Et Cosmochimica Acta, 2011, 75, 2512-2528. | 1.6 | 130 |
| 75 | Uranium speciation and stability after reductive immobilization in aquifer sediments. Geochimica Et Cosmochimica Acta, 2011, 75, 6497-6510. | 1.6 | 112 |
| 76 | The Response of Shewanella oneidensis MR-1 to Cr(III) Toxicity Differs from that to Cr(VI). Frontiers in Microbiology, 2011, 2, 223. | 1.5 | 29 |
| 77 | Speciation-Dependent Kinetics of Uranium(VI) Bioreduction. Geomicrobiology Journal, 2011, 28, 396-409. | 1.0 | 31 |
| 78 | The genome of the Gramâ€positive metalâ€•and sulfateâ€reducing bacterium <i>Desulfotomaculum reducens</i> strain MIâ€1. Environmental Microbiology, 2010, 12, 2738-2754. | 1.8 | 60 |
| 79 | Effect of Competing Electron Acceptors on the Reduction of U(VI) by<i>Desulfotomaculum reducens</i>. Geomicrobiology Journal, 2010, 27, 435-443. | 1.0 | 11 |
| 80 | Non-uraninite Products of Microbial U(VI) Reduction. Environmental Science & Technology, 2010, 44, 9456-9462. | 4.6 | 220 |
| 81 | Speciation of naturally-accumulated uranium in an organic-rich soil of an alpine region (Switzerland). Geochimica Et Cosmochimica Acta, 2010, 74, 2082-2098. | 1.6 | 95 |
| 82 | U(VI) reduction by spores of Clostridium acetobutylicum. Research in Microbiology, 2010, 161, 765-771. | 1.0 | 31 |
| 83 | Binding of Silver Nanoparticles to Bacterial Proteins Depends on Surface Modifications and Inhibits Enzymatic Activity. Environmental Science & Technology, 2010, 44, 2163-2168. | 4.6 | 239 |
| 84 | SunCHem: an integrated process for the hydrothermal production of methane from microalgae and CO2 mitigation. Journal of Applied Phycology, 2009, 21, 529-541. | 1.5 | 126 |
| 85 | Metal reduction by spores of <i>Desulfotomaculum reducens</i>. Environmental Microbiology, 2009, 11, 3007-3017. | 1.8 | 42 |
| 86 | Effect of Mn(II) on the Structure and Reactivity of Biogenic Uraninite. Environmental Science & Technology, 2009, 43, 6541-6547. | 4.6 | 32 |
| 87 | Comparative dissolution kinetics of biogenic and chemogenic uraninite under oxidizing conditions in the presence of carbonate. Geochimica Et Cosmochimica Acta, 2009, 73, 6065-6083. | 1.6 | 98 |
| 88 | Structural Similarities between Biogenic Uraninites Produced by Phylogenetically and Metabolically Diverse Bacteria. Environmental Science & Technology, 2009, 43, 8295-8301. | 4.6 | 50 |
| 89 | Biogenic Uraninite Nanoparticles and Their Importance for Uranium Remediation. Elements, 2008, 4, 407-412. | 0.5 | 148 |
| 90 | Structure of Biogenic Uraninite Produced by <i>Shewanella oneidensis</i> Strain MR-1. Environmental Science & Technology, 2008, 42, 7898-7904. | 4.6 | 119 |

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| 91 | Dissolution of Biogenic and Synthetic UO2under Varied Reducing Conditions. Environmental Science & Technology, 2008, 42, 5600-5606. | 4.6 | 91 |
| 92 | Genomic Insights into Mn(II) Oxidation by the Marine Alphaproteobacterium <i>Aurantimonas</i> sp. Strain SI85-9A1. Applied and Environmental Microbiology, 2008, 74, 2646-2658. | 1.4 | 77 |
| 93 | Uranyl reduction by Geobacter sulfurreducens in the presence or absence of iron. , 2008, , 725-732. | | 1 |
| 94 | Environmental implications of Mn(II)-reacted biogenic UO2. , 2008, , 755-762. | | 0 |
| 95 | Toxicity of Cr(III) toShewanellasp. Strain MR-4 during Cr(VI) Reduction. Environmental Science & Technology, 2007, 41, 214-220. | 4.6 | 106 |
| 96 | Global Transcriptional Profiling of Shewanella oneidensis MR-1 during Cr(VI) and U(VI) Reduction. Applied and Environmental Microbiology, 2005, 71, 7453-7460. | 1.4 | 139 |
| 97 | Chemical speciation and toxicity of metals assessed by three bioluminescence-based assays using marine organisms. Environmental Toxicology, 2004, 19, 161-178. | 2.1 | 21 |
| 98 | Cometabolism of Cr(VI) byShewanella oneidensis MR-1 produces cell-associated reduced chromium and inhibits growth. Biotechnology and Bioengineering, 2003, 83, 627-637. | 1.7 | 151 |
| 99 | Fate of Uranyl in a Quaternary System Composed of Uranyl, Citrate, Goethite, andPseudomonas fluorescens. Environmental Science & Technology, 2003, 37, 3555-3559. | 4.6 | 17 |
| 100 | Association of uranyl with the cell wall of Pseudomonas fluorescens inhibits metabolism. Geochimica Et Cosmochimica Acta, 2003, 67, 4057-4066. | 1.6 | 25 |
| 101 | Citrate Enhanced Uranyl Adsorption on Goethite: An EXAFS Analysis. Journal of Colloid and Interface Science, 2001, 244, 211-219. | 5.0 | 58 |