Amelia-Elena Rotaru

List of Publications by Year
in descending order

37 papers	6,683 citations	159585 30 h-index	345221 36 g-index
47 all docs	47 docs citations	47 times ranked	4528 citing authors

#	Article	IF	Citations
1	Letâ€™s chat: Communication between electroactive microorganisms. Bioresource Technology, 2022, 347, 126705.	9.6	33
2	An underappreciated DIET for anaerobic petroleum hydrocarbonâ€degrading microbial communities. Microbial Biotechnology, 2021, 14, 2-7.	4.2	16
3	Microbes trading electricity in consortia of environmental and biotechnological significance. Current Opinion in Biotechnology, 2021, 67, 119-129.	6.6	37
4	A Winâ€“Loss Interaction on Fe0 Between Methanogens and Acetogens From a Climate Lake. Frontiers in Microbiology, 2021, 12, 638282.	3.5	7
5	<i>Syntrophus</i> conductive pili demonstrate that common hydrogen-donating syntrophs can have a direct electron transfer option. ISME Journal, 2020, 14, 837-846.	9.8	106
6	Cultivating electroactive microbesâ€"from field to bench. Nanotechnology, 2020, 31, 174003.	2.6	52
7	Extracellular electron uptake in Methanosarcinales is independent of multiheme c-type cytochromes. Scientific Reports, 2020, 10, 372.	3.3	84
8	Toward the Integrated Marine Debris Observing System. Frontiers in Marine Science, 2019, 6, .	2.5	178
9	Baltic Sea methanogens compete with acetogens for electrons from metallic iron. ISME Journal, 2019, 13, 3011-3023.	9.8	45
10	Extracellular Electron Uptake by Two Methanosarcina Species. Frontiers in Energy Research, 2019, 7, .	2.3	80
11	Interspecies interactions mediated by conductive minerals in the sediments of the Iron rich Meromictic Lake La Cruz, Spain. , 2019, 38, 21-40.		16
12	Potential for Methanosarcina to Contribute to Uranium Reduction during Acetate-Promoted Groundwater Bioremediation. Microbial Ecology, 2018, 76, 660-667.	2.8	27
13	Conductive Particles Enable Syntrophic Acetate Oxidation between <i>Geobacter</i> and <i>Methanosarcina</i> from Coastal Sediments. MBio, 2018, 9, .	4.1	69
14	Electron and Proton Flux for Carbon Dioxide Reduction in Methanosarcina barkeri During Direct Interspecies Electron Transfer. Frontiers in Microbiology, 2018, 9, 3109.	3.5	75
15	<i>Geobacter</i> Strains Expressing Poorly Conductive Pili Reveal Constraints on Direct Interspecies Electron Transfer Mechanisms. MBio, 2018, 9, .	4.1	78
16	Editorial: Wired for Life. Frontiers in Microbiology, 2016, 7, 662.	3.5	2
17	A new diet for methane oxidizers. Science, 2016, 351, 658-658.	12.6	21
18	Link between capacity for current production and syntrophic growth in Geobacter species. Frontiers in Microbiology, 2015, 6, 744.	3.5	133

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19	Magnetite compensates for the lack of a pilinâ€associated <scp><i>c</i></scp>â€type cytochrome in extracellular electron exchange. Environmental Microbiology, 2015, 17, 648-655.	3.8	300
20	Plugging in or going wireless: strategies for interspecies electron transfer. Frontiers in Microbiology, 2014, 5, 237.	3.5	177
21	Constraint-Based Modeling of Carbon Fixation and the Energetics of Electron Transfer in Geobacter metallireducens. PLoS Computational Biology, 2014, 10, e1003575.	3.2	38
22	Direct Interspecies Electron Transfer between Geobacter metallireducens and Methanosarcina barkeri. Applied and Environmental Microbiology, 2014, 80, 4599-4605.	3.1	714
23	A new model for electron flow during anaerobic digestion: direct interspecies electron transfer to Methanosaeta for the reduction of carbon dioxide to methane. Energy and Environmental Science, 2014, 7, 408-415.	30.8	1,074
24	Carbon cloth stimulates direct interspecies electron transfer in syntrophic co-cultures. Bioresource Technology, 2014, 173, 82-86.	9.6	323
25	Promoting Interspecies Electron Transfer with Biochar. Scientific Reports, 2014, 4, 5019.	3.3	429
26	Characterization and modelling of interspecies electron transfer mechanisms and microbial community dynamics of a syntrophic association. Nature Communications, 2013, 4, 2809.	12.8	103
27	Syntrophic growth with direct interspecies electron transfer as the primary mechanism for energy exchange. Environmental Microbiology Reports, 2013, 5, 904-910.	2.4	137
28	Transcriptomic and Genetic Analysis of Direct Interspecies Electron Transfer. Applied and Environmental Microbiology, 2013, 79, 2397-2404.	3.1	168
29	Interspecies Electron Transfer via Hydrogen and Formate Rather than Direct Electrical Connections in Cocultures of Pelobacter carbinolicus and Geobacter sulfurreducens. Applied and Environmental Microbiology, 2012, 78, 7645-7651.	3.1	148
30	Promoting direct interspecies electron transfer with activated carbon. Energy and Environmental Science, 2012, 5, 8982.	30.8	718
31	Nonâ€enzymatic palladium recovery on microbial and synthetic surfaces. Biotechnology and Bioengineering, 2012, 109, 1889-1897.	3.3	65
32	Microbially supported synthesis of catalytically active bimetallic Pdâ€Au nanoparticles. Biotechnology and Bioengineering, 2012, 109, 45-52.	3.3	52
33	Visualization of Candidate Division OP3 Cocci in Limonene-Degrading Methanogenic Cultures. Journal of Microbiology and Biotechnology, 2012, 22, 457-461.	2.1	14
34	Geobacter. Advances in Microbial Physiology, 2011, 59, 1-100.	2.4	541
35	Potential for Direct Interspecies Electron Transfer in Methanogenic Wastewater Digester Aggregates. MBio, 2011, 2, e00159-11.	4.1	472
36	Formation of palladium(0) nanoparticles at microbial surfaces. Biotechnology and Bioengineering, 2010, 107, 206-215.	3.3	78

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37	Highly enriched<i>Betaproteobacteria</i>â€ƒgrowing anaerobically with<i>p</i>-xylene and nitrate. FEMS Microbiology Ecology, 2010, 71, 460-468.	2.7	45