

Rosa Krajmalnik-Brown

List of Publications by Year in descending order

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122
papers

14,092
citations

43973

48
h-index

21474

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all docs

127
docs citations

127
times ranked

16379
citing authors

#	ARTICLE	IF	CITATIONS
1	Gut Microbiota Regulate Motor Deficits and Neuroinflammation in a Model of Parkinson's Disease. <i>Cell</i> , 2016, 167, 1469-1480.e12.	13.5	2,399
2	Human gut microbiota in obesity and after gastric bypass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2365-2370.	3.3	1,641
3	Microbiota Transfer Therapy alters gut ecosystem and improves gastrointestinal and autism symptoms: an open-label study. <i>Microbiome</i> , 2017, 5, 10.	4.9	901
4	Reduced Incidence of Prevotella and Other Fermenters in Intestinal Microflora of Autistic Children. <i>PLoS ONE</i> , 2013, 8, e68322.	1.1	709
5	Human Gut Microbiota from Autism Spectrum Disorder Promote Behavioral Symptoms in Mice. <i>Cell</i> , 2019, 177, 1600-1618.e17.	13.5	701
6	Effects of Gut Microbes on Nutrient Absorption and Energy Regulation. <i>Nutrition in Clinical Practice</i> , 2012, 27, 201-214.	1.1	596
7	A kinetic perspective on extracellular electron transfer by anode-respiring bacteria. <i>FEMS Microbiology Reviews</i> , 2010, 34, 3-17.	3.9	506
8	Gut Microbiota and Its Possible Relationship With Obesity. <i>Mayo Clinic Proceedings</i> , 2008, 83, 460-469.	1.4	499
9	Selecting Anode-Respiring Bacteria Based on Anode Potential: Phylogenetic, Electrochemical, and Microscopic Characterization. <i>Environmental Science & Technology</i> , 2009, 43, 9519-9524.	4.6	442
10	Long-term benefit of Microbiota Transfer Therapy on autism symptoms and gut microbiota. <i>Scientific Reports</i> , 2019, 9, 5821.	1.6	414
11	Differences in fecal microbial metabolites and microbiota of children with autism spectrum disorders. <i>Anaerobe</i> , 2018, 49, 121-131.	1.0	249
12	Isolation and characterization of Dehalococcoides sp. strain FL2, a trichloroethene (TCE)- and 1,2-dichloroethene-respiring anaerobe. <i>Environmental Microbiology</i> , 2005, 7, 1442-1450.	1.8	237
13	Genetic Identification of a Putative Vinyl Chloride Reductase in Dehalococcoides sp. Strain BAV1. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6347-6351.	1.4	227
14	Syntrophic interactions among anode respiring bacteria (ARB) and Non-ARB in a biofilm anode: electron balances. <i>Biotechnology and Bioengineering</i> , 2009, 103, 513-523.	1.7	208
15	Microbial community structure in a biofilm anode fed with a fermentable substrate: The significance of hydrogen scavengers. <i>Biotechnology and Bioengineering</i> , 2010, 105, 69-78.	1.7	148
16	Interactions between Perchlorate and Nitrate Reductions in the Biofilm of a Hydrogen-Based Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2011, 45, 10155-10162.	4.6	136
17	Multiple Nonidentical Reductive-Dehalogenase-Homologous Genes Are Common in Dehalococcoides. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5290-5297.	1.4	129
18	Multiple Reductive-Dehalogenase-Homologous Genes Are Simultaneously Transcribed during Dechlorination by Dehalococcoides-Containing Cultures. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8257-8264.	1.4	129

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19	Focused-Pulsed sludge pre-treatment increases the bacterial diversity and relative abundance of acetoclastic methanogens in a full-scale anaerobic digester. <i>Water Research</i> , 2009, 43, 4517-4526.	5.3	126
20	Distinctive microbiomes and metabolites linked with weight loss after gastric bypass, but not gastric banding. <i>ISME Journal</i> , 2017, 11, 2047-2058.	4.4	121
21	2,4,5-Trichlorophenol Degradation Using a Novel TiO ₂ -Coated Biofilm Carrier: Roles of Adsorption, Photocatalysis, and Biodegradation. <i>Environmental Science & Technology</i> , 2011, 45, 8359-8367.	4.6	110
22	Pre-genomic, genomic and post-genomic study of microbial communities involved in bioenergy. <i>Nature Reviews Microbiology</i> , 2008, 6, 604-612.	13.6	107
23	Gut bacteria in children with autism spectrum disorders: challenges and promise of studying how a complex community influences a complex disease. <i>Microbial Ecology in Health and Disease</i> , 2015, 26, 26914.	3.8	105
24	pH-Mediated Microbial and Metabolic Interactions in Fecal Enrichment Cultures. <i>MSphere</i> , 2017, 2, .	1.3	105
25	Toward Effective Probiotics for Autism and Other Neurodevelopmental Disorders. <i>Cell</i> , 2013, 155, 1446-1448.	13.5	97
26	Enrichment and Analysis of Anode-Respiring Bacteria from Diverse Anaerobic Inocula. <i>Environmental Science & Technology</i> , 2012, 46, 10349-10355.	4.6	94
27	Hydrogen consumption in microbial electrochemical systems (MXCs): The role of homo-acetogenic bacteria. <i>Bioresource Technology</i> , 2011, 102, 263-271.	4.8	91
28	Uranium removal and microbial community in H ₂ -based membrane biofilm reactor. <i>Water Research</i> , 2014, 64, 255-264.	5.3	86
29	Interactions between Nitrate-Reducing and Sulfate-Reducing Bacteria Coexisting in a Hydrogen-Fed Biofilm. <i>Environmental Science & Technology</i> , 2012, 46, 11289-11298.	4.6	82
30	Generation of High Current Densities by Pure Cultures of Anode-Respiring <i>Geobacter</i> spp. under Alkaline and Saline Conditions in Microbial Electrochemical Cells. <i>MBio</i> , 2013, 4, e00144-13.	1.8	82
31	Using a Two-Stage Hydrogen-Based Membrane Biofilm Reactor (MBfR) to Achieve Complete Perchlorate Reduction in the Presence of Nitrate and Sulfate. <i>Environmental Science & Technology</i> , 2013, 47, 1565-1572.	4.6	78
32	Fate of Sucralose During Wastewater Treatment. <i>Environmental Engineering Science</i> , 2011, 28, 325-331.	0.8	75
33	Palladium Recovery in a H ₂ -Based Membrane Biofilm Reactor: Formation of Pd(0) Nanoparticles through Enzymatic and Autocatalytic Reductions. <i>Environmental Science & Technology</i> , 2016, 50, 2546-2555.	4.6	72
34	Distinct Fecal and Plasma Metabolites in Children with Autism Spectrum Disorders and Their Modulation after Microbiota Transfer Therapy. <i>MSphere</i> , 2020, 5, .	1.3	67
35	Bioreduction of Trichloroethene Using a Hydrogen-Based Membrane Biofilm Reactor. <i>Environmental Science & Technology</i> , 2008, 42, 477-483.	4.6	66
36	Remediation of petroleum hydrocarbon-contaminated sites by DNA diagnosis-based bioslurping technology. <i>Science of the Total Environment</i> , 2014, 497-498, 250-259.	3.9	66

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37	Effects of temperature shifts on growth rate and lipid characteristics of <i>Synechocystis</i> sp. PCC6803 in a bench-top photobioreactor. <i>Bioresource Technology</i> , 2011, 102, 11218-11225.	4.8	63
38	Managing the interactions between sulfate- and perchlorate-reducing bacteria when using hydrogen-fed biofilms to treat a groundwater with a high perchlorate concentration. <i>Water Research</i> , 2014, 55, 215-224.	5.3	57
39	Enhancing biodegradation of C16-alkyl quaternary ammonium compounds using an oxygen-based membrane biofilm reactor. <i>Water Research</i> , 2017, 123, 825-833.	5.3	57
40	Antibiotic-induced gut metabolome and microbiome alterations increase the susceptibility to <i>Candida albicans</i> colonization in the gastrointestinal tract. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	57
41	Temporospatial shifts in the human gut microbiome and metabolome after gastric bypass surgery. <i>Npj Biofilms and Microbiomes</i> , 2020, 6, 12.	2.9	57
42	Approaches to studying and manipulating the enteric microbiome to improve autism symptoms. <i>Microbial Ecology in Health and Disease</i> , 2015, 26, 26878.	3.8	56
43	The source of inoculum plays a defining role in the development of MEC microbial consortia fed with acetic and propionic acid mixtures. <i>Journal of Biotechnology</i> , 2014, 182-183, 11-18.	1.9	52
44	Environmental distribution of the trichloroethene reductive dehalogenase gene (<i>tceA</i>) suggests lateral gene transfer among <i>Dehalococcoides</i> . <i>FEMS Microbiology Ecology</i> , 2007, 59, 206-214.	1.3	51
45	Diet, physical activity and screen time but not body mass index are associated with the gut microbiome of a diverse cohort of college students living in university housing: a cross-sectional study. <i>BMC Microbiology</i> , 2018, 18, 210.	1.3	51
46	Effect of Dechlorination and Sulfate Reduction on the Microbial Community Structure in Denitrifying Membrane-Biofilm Reactors. <i>Environmental Science & Technology</i> , 2010, 44, 5159-5164.	4.6	50
47	Development and characterization of DehaloR ² , a novel anaerobic microbial consortium performing rapid dechlorination of TCE to ethene. <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 1063-1071.	1.7	50
48	Managing methanogens and homoacetogens to promote reductive dechlorination of trichloroethene with direct delivery of H ₂ in a membrane biofilm reactor. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2200-2210.	1.7	49
49	Gut microbial and short-chain fatty acid profiles in adults with chronic constipation before and after treatment with lubiprostone. <i>Anaerobe</i> , 2015, 33, 33-41.	1.0	49
50	Hydrogenotrophic Microbial Reduction of Oxyanions With the Membrane Biofilm Reactor. <i>Frontiers in Microbiology</i> , 2018, 9, 3268.	1.5	49
51	Effects of Multiple Electron Acceptors on Microbial Interactions in a Hydrogen-Based Biofilm. <i>Environmental Science & Technology</i> , 2013, 47, 7396-7403.	4.6	48
52	A Steady-State Biofilm Model for Simultaneous Reduction of Nitrate and Perchlorate, Part 1: Model Development and Numerical Solution. <i>Environmental Science & Technology</i> , 2012, 46, 1598-1607.	4.6	45
53	A Steady-State Biofilm Model for Simultaneous Reduction of Nitrate and Perchlorate, Part 2: Parameter Optimization and Results and Discussion. <i>Environmental Science & Technology</i> , 2012, 46, 1608-1615.	4.6	45
54	Removal of multiple electron acceptors by pilot-scale, two-stage membrane biofilm reactors. <i>Water Research</i> , 2014, 54, 115-122.	5.3	45

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55	Role of bicarbonate as a pH buffer and electron sink in microbial dechlorination of chloroethenes. Microbial Cell Factories, 2012, 11, 128.	1.9	44
56	A biofilm model to understand the onset of sulfate reduction in denitrifying membrane biofilm reactors. Biotechnology and Bioengineering, 2013, 110, 763-772.	1.7	43
57	Phylogenetic analysis of nitrate- and sulfate-reducing bacteria in a hydrogen-fed biofilm. FEMS Microbiology Ecology, 2013, 85, 158-167.	1.3	43
58	The effects of CO ₂ and H ₂ on CO metabolism by pure and mixed microbial cultures. Biotechnology for Biofuels, 2017, 10, 220.	6.2	40
59	Interpreting Interactions between Ozone and Residual Petroleum Hydrocarbons in Soil. Environmental Science & Technology, 2017, 51, 506-513.	4.6	38
60	Pyrosequencing Analysis Yields Comprehensive Assessment of Microbial Communities in Pilot-Scale Two-Stage Membrane Biofilm Reactors. Environmental Science & Technology, 2014, 48, 7511-7518.	4.6	37
61	Hydrogen-fed biofilm reactors reducing selenate and sulfate: Community structure and capture of elemental selenium within the biofilm. Biotechnology and Bioengineering, 2016, 113, 1736-1744.	1.7	36
62	Long-Term Continuous Co-reduction of 1,1,1-Trichloroethane and Trichloroethene over Palladium Nanoparticles Spontaneously Deposited on H ₂ -Transfer Membranes. Environmental Science & Technology, 2021, 55, 2057-2066.	4.6	34
63	Impact of carbon monoxide partial pressures on methanogenesis and medium chain fatty acids production during ethanol fermentation. Biotechnology and Bioengineering, 2018, 115, 341-350.	1.7	33
64	Selective Enrichment Yields Robust Ethene-Producing Dechlorinating Cultures from Microcosms Stalled at cis-Dichloroethene. PLoS ONE, 2014, 9, e100654.	1.1	33
65	Ozone enhances biodegradability of heavy hydrocarbons in soil. Journal of Environmental Engineering and Science, 2016, 11, 7-17.	0.3	32
66	Combining microbial cultures for efficient production of electricity from butyrate in a microbial electrochemical cell. Bioresource Technology, 2014, 169, 169-174.	4.8	31
67	Evolution of microbial communities growing with carbon monoxide, hydrogen, and carbon dioxide. FEMS Microbiology Ecology, 2017, 93, .	1.3	31
68	Coupling dark metabolism to electricity generation using photosynthetic cocultures. Biotechnology and Bioengineering, 2014, 111, 223-231.	1.7	28
69	Successful operation of continuous reactors at short retention times results in high-density, fast-rate Dehalococcoides dechlorinating cultures. Applied Microbiology and Biotechnology, 2014, 98, 2729-2737.	1.7	28
70	Total electron acceptor loading and composition affect hexavalent uranium reduction and microbial community structure in a membrane biofilm reactor. Water Research, 2017, 125, 341-349.	5.3	28
71	The Gut Microbiome in Autism: Study-Site Effects and Longitudinal Analysis of Behavior Change. MSystems, 2021, 6, .	1.7	28
72	Using electron balances and molecular techniques to assess trichloroethene-induced shifts to a dechlorinating microbial community. Biotechnology and Bioengineering, 2012, 109, 2230-2239.	1.7	27

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73	Archaea and Bacteria Acclimate to High Total Ammonia in a Methanogenic Reactor Treating Swine Waste. <i>Archaea</i> , 2016, 2016, 1-10.	2.3	26
74	Light-responsive current generation by phototrophically enriched anode biofilms dominated by green sulfur bacteria. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1020-1027.	1.7	25
75	Microbiota transplant therapy and autism: lessons for the clinic. <i>Expert Review of Gastroenterology and Hepatology</i> , 2019, 13, 1033-1037.	1.4	24
76	The role of homoacetogenic bacteria as efficient hydrogen scavengers in microbial electrochemical cells (MXCs). <i>Water Science and Technology</i> , 2012, 65, 1-6.	1.2	23
77	Effects of phosphate limitation on soluble microbial products and microbial community structure in semi-continuous <i>Synechocystis</i> -based photobioreactors. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1761-1769.	1.7	23
78	Synergistic Zerovalent Iron (Fe ⁰) and Microbiological Trichloroethene and Perchlorate Reductions Are Determined by the Concentration and Speciation of Fe. <i>Environmental Science & Technology</i> , 2020, 54, 14422-14431.	4.6	23
79	A Synergistic Platform for Continuous Co-removal of 1,1,1-Trichloroethane, Trichloroethene, and 1,4-Dioxane via Catalytic Dechlorination Followed by Biodegradation. <i>Environmental Science & Technology</i> , 2021, 55, 6363-6372.	4.6	23
80	Integrating High-Throughput Pyrosequencing and Quantitative Real-Time PCR to Analyze Complex Microbial Communities. <i>Methods in Molecular Biology</i> , 2011, 733, 107-128.	0.4	22
81	<i>Wolffia globosa</i> "Mankai Plant-Based Protein Contains Bioactive Vitamin B12 and Is Well Absorbed in Humans. <i>Nutrients</i> , 2020, 12, 3067.	1.7	21
82	Multivariate Analysis of Fecal Metabolites from Children with Autism Spectrum Disorder and Gastrointestinal Symptoms before and after Microbiota Transfer Therapy. <i>Journal of Personalized Medicine</i> , 2020, 10, 152.	1.1	21
83	Rapidly Processed Stool Swabs Approximate Stool Microbiota Profiles. <i>MSphere</i> , 2019, 4, .	1.3	19
84	The complex puzzle of dietary silver nanoparticles, mucus and microbiota in the gut. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2020, 23, 69-89.	2.9	19
85	Increased expression of antibiotic-resistance genes in biofilm communities upon exposure to cetyltrimethylammonium bromide (CTAB) and other stress conditions. <i>Science of the Total Environment</i> , 2021, 765, 144264.	3.9	19
86	Coupling Bioflocculation of <i>Dehalococcoides mccartyi</i> to High-Rate Reductive Dehalogenation of Chlorinated Ethenes. <i>Environmental Science & Technology</i> , 2017, 51, 11297-11307.	4.6	18
87	Anaerobic carbon monoxide metabolism by <i>Pleomorphomonas carboxydutropha</i> sp. nov., a new mesophilic hydrogenogenic carboxydutroph. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	18
88	Immune protection is dependent on the gut microbiome in a lethal mouse gammaherpesviral infection. <i>Scientific Reports</i> , 2020, 10, 2371.	1.6	18
89	Surgical Menopause and Estrogen Therapy Modulate the Gut Microbiota, Obesity Markers, and Spatial Memory in Rats. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 702628.	1.8	18
90	Perchlorate reduction from a highly contaminated groundwater in the presence of sulfate-reducing bacteria in a hydrogen-fed biofilm. <i>Biotechnology and Bioengineering</i> , 2013, 110, 3139-3147.	1.7	17

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91	The role of anaerobic sludge recycle in improving anaerobic digester performance. Bioresource Technology, 2013, 128, 731-737.	4.8	17
92	Aflatoxin Exposure, Child Stunting, and Dysbiosis in the Intestinal Microbiome Among Children in Guatemala. Environmental Engineering Science, 2019, 36, 958-968.	0.8	17
93	Integrative and quantitative bioenergetics: Design of a study to assess the impact of the gut microbiome on host energy balance. Contemporary Clinical Trials Communications, 2020, 19, 100646.	0.5	15
94	Biodegradation of petroleum hydrocarbons in a weathered, unsaturated soil is inhibited by peroxide oxidants. Journal of Hazardous Materials, 2022, 433, 128770.	6.5	15
95	Shifting the balance of fermentation products between hydrogen and volatile fatty acids: microbial community structure and function. FEMS Microbiology Ecology, 2016, 92, fiw195.	1.3	14
96	Impact of Ammonium on Syntrophic Organohalide-Respiring and Fermenting Microbial Communities. MSphere, 2016, 1, .	1.3	14
97	The Metabolomic-Gut-Clinical Axis of Mankai Plant-Derived Dietary Polyphenols. Nutrients, 2021, 13, 1866.	1.7	14
98	Impacts of moisture content during ozonation of soils containing residual petroleum. Journal of Hazardous Materials, 2018, 344, 1101-1108.	6.5	12
99	Multivariate Analysis of Plasma Metabolites in Children with Autism Spectrum Disorder and Gastrointestinal Symptoms Before and After Microbiota Transfer Therapy. Processes, 2019, 7, 806.	1.3	11
100	Carboxylates and alcohols production in an autotrophic hydrogenâ€based membrane biofilm reactor. Biotechnology and Bioengineering, 2021, 118, 2338-2347.	1.7	11
101	Multicycle Ozonation+Bioremediation for Soils Containing Residual Petroleum. Environmental Engineering Science, 2019, 36, 1443-1451.	0.8	10
102	Energetically Informed Niche Models of Hydrogenotrophs Detected in Sediments of Serpentinized Fluids of the Samail Ophiolite of Oman. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	10
103	The Fecal Microbiome and Metabolome of Pitt Hopkins Syndrome, a Severe Autism Spectrum Disorder. MSystems, 2021, 6, e0100621.	1.7	8
104	Quantitative PCR for Tracking the Megaplasmid-Borne Biodegradation Potential of a Model Sphingomonad. Applied and Environmental Microbiology, 2012, 78, 4493-4496.	1.4	7
105	Chemical Oxygen Demand Can Be Converted to Gross Energy for Food Items Using a Linear Regression Model. Journal of Nutrition, 2021, 151, 445-453.	1.3	7
106	Genomes of Geoalkalibacter ferrihydriticus Z-0531 ^T and Geoalkalibacter subterraneus Red1 ^T , Two Haloalkaliphilic Metal-Reducing Deltaproteobacteria. Genome Announcements, 2015, 3, .	0.8	6
107	The source of inoculum drives bacterial community structure in Synechocystis sp. PCC6803-based photobioreactors. Algal Research, 2016, 13, 109-115.	2.4	6
108	Tracking Personal Health-Environment Interaction with Novel Mobile Sensing Devices. Sensors, 2018, 18, 2670.	2.1	6

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109	An Ion Chromatography Method for Simultaneous Quantification of Chromate, Arsenate, Selenate, Perchlorate, and Other Inorganic Anions in Environmental Media. <i>Environmental Engineering Science</i> , 2021, 38, 626-634.	0.8	6
110	Coupled electrokinetic and biological remediation method leads to improved treatment of chlorinated solvents at high sulfate, transport limited sites. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2926-2937.	1.2	5
111	Method for Assessing Source Zone Natural Depletion at Chlorinated Aliphatic Spill Sites. <i>Ground Water Monitoring and Remediation</i> , 2014, 34, 60-70.	0.6	4
112	Effects of light intensity on soluble microbial products produced by <i>Synechocystis</i> sp. PCC 6803 and associated heterotrophic communities. <i>Algal Research</i> , 2019, 38, 101409.	2.4	4
113	Protocol of the Snuggle Bug/Acurrucadito Study: a longitudinal study investigating the influences of sleep-wake patterns and gut microbiome development in infancy on rapid weight gain, an early risk factor for obesity. <i>BMC Pediatrics</i> , 2021, 21, 374.	0.7	4
114	Modeling trichloroethene reduction in a hydrogen-based biofilm. <i>Water Science and Technology</i> , 2013, 68, 1158-1163.	1.2	3
115	Simultaneous Determination of Chlorinated Ethenes and Ethene in Groundwater Using Headspace Solid-Phase Microextraction with Gas Chromatography. <i>Journal of Chromatographic Science</i> , 2014, 52, 137-142.	0.7	3
116	Modeling Trichloroethene Reduction, Methanogenesis, and Homoacetogenesis in a H ₂ -Based Biofilm. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	0.7	3
117	The influence of electrokinetic bioremediation on subsurface microbial communities at a perchloroethylene contaminated site. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 6489-6497.	1.7	3
118	Organic carbon metabolism is a main determinant of hydrogen demand and dynamics in anaerobic soils. <i>Chemosphere</i> , 2022, 303, 134877.	4.2	3
119	A Fruitful Discovery: Can Gut Bacteria Control Hyperactive Behavior?. <i>Molecular Cell</i> , 2019, 73, 395-397.	4.5	2
120	Autonomous screening of groundwater remediation technologies in the subsurface using the In Situ Microcosm Array (ISMA). <i>Journal of Hazardous Materials</i> , 2019, 367, 668-675.	6.5	2
121	Developing a model for estimating the activity of colonic microbes after intestinal surgeries. <i>PLoS ONE</i> , 2021, 16, e0253542.	1.1	2
122	Microbial Electrochemical Cells as a Research Tool to Probe Microbial and Biofilm Kinetics. <i>Proceedings of the Water Environment Federation</i> , 2010, 2010, 52-60.	0.0	0