

Srijan Aggarwal

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

873
citations

430874

18
h-index

477307

29
g-index

37
all docs

37
docs citations

37
times ranked

1114
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of biological recovery of rare-earth elements from industrial and electronic wastes: A review. <i>Chemical Engineering Journal</i> , 2020, 397, 124596.	12.7	109
2	Use of immobilized bacteria for environmental bioremediation: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105920.	6.7	93
3	In-situ burning with chemical herders for Arctic oil spill response: Meta-analysis and review. <i>Science of the Total Environment</i> , 2019, 675, 705-716.	8.0	64
4	Removal of Arsenic(III) from Aqueous Solution Using Metal Organic Framework-Graphene Oxide Nanocomposite. <i>Nanomaterials</i> , 2018, 8, 1062.	4.1	61
5	Mining-Related Selenium Contamination in Alaska, and the State of Current Knowledge. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 46.	2.0	57
6	Factors impacting the interactions of engineered nanoparticles with bacterial cells and biofilms: Mechanistic insights and state of knowledge. <i>Journal of Environmental Management</i> , 2018, 225, 62-74.	7.8	55
7	Applying the food-“energy”-water nexus concept at the local scale. <i>Nature Sustainability</i> , 2021, 4, 672-679.	23.7	48
8	Development and testing of a novel microcantilever technique for measuring the cohesive strength of intact biofilms. <i>Biotechnology and Bioengineering</i> , 2010, 105, 924-934.	3.3	43
9	Effects of Chloramine and Coupon Material on Biofilm Abundance and Community Composition in Bench-Scale Simulated Water Distribution Systems and Comparison with Full-Scale Water Mains. <i>Environmental Science & Technology</i> , 2018, 52, 13077-13088.	10.0	42
10	Determination of biofilm mechanical properties from tensile tests performed using a micro-cantilever method. <i>Biofouling</i> , 2010, 26, 479-486.	2.2	34
11	Rapid immobilization of viable <i>Bacillus pseudomycoloides</i> in polyvinyl alcohol/glutaraldehyde hydrogel for biological treatment of municipal wastewater. <i>Environmental Science and Pollution Research</i> , 2020, 27, 9167-9180.	5.3	32
12	Biofilm Cohesive Strength as a Basis for Biofilm Recalcitrance: Are Bacterial Biofilms Overdesigned?. <i>Microbiology Insights</i> , 2015, 8s2, MBI.S31444.	2.0	28
13	Effect of Strain Rate on the Mechanical Properties of <i>Staphylococcus epidermidis</i> Biofilms. <i>Langmuir</i> , 2012, 28, 2812-2816.	3.5	24
14	Scale-up considerations for surface collecting agent assisted in-situ burn crude oil spill response experiments in the Arctic: Laboratory to field-scale investigations. <i>Journal of Environmental Management</i> , 2017, 190, 266-273.	7.8	23
15	Aerial application of herding agents to advance in-situ burning for oil spill response in the Arctic: A pilot study. <i>Cold Regions Science and Technology</i> , 2017, 135, 97-104.	3.5	22
16	Implications of inadequate water and sanitation infrastructure for community spread of COVID-19 in remote Alaskan communities. <i>Science of the Total Environment</i> , 2021, 776, 145842.	8.0	21
17	Adsorptive Removal of Se(IV) by Citrus Peels: Effect of Adsorbent Entrapment in Calcium Alginate Beads. <i>ACS Omega</i> , 2020, 5, 17215-17222.	3.5	20
18	MicroFEWs: A Food-“Energy”-Water Systems Approach to Renewable Energy Decisions in Islanded Microgrid Communities in Rural Alaska. <i>Environmental Engineering Science</i> , 2019, 36, 843-849.	1.6	19

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19	Real-Time Prediction of Size-Resolved Ultrafine Particulate Matter on Freeways. <i>Environmental Science & Technology</i> , 2012, 46, 2234-2241.	10.0	14
20	An Evaluation of MODIS-Retrieved Aerosol Optical Depth over AERONET Sites in Alaska. <i>Remote Sensing</i> , 2018, 10, 1384.	4.0	12
21	A Tale of Two Communities: Adopting and Paying for an In-Home Non-Potable Water Reuse System in Rural Alaska. <i>ACS ES&T Water</i> , 2021, 1, 1807-1815.	4.6	9
22	Pb(II) adsorption from aqueous solution by an aluminum-based metal organic framework-graphene oxide nanocomposite. <i>Materials Advances</i> , 2021, 2, 3051-3059.	5.4	8
23	Feasibility of using a particle counter or flow-cytometer for bacterial enumeration in the assimilable organic carbon (AOC) analysis method. <i>Biodegradation</i> , 2015, 26, 387-397.	3.0	7
24	Water quality and associated microbial ecology in selected Alaska Native communities: Challenges in off-the-grid water supplies. <i>Science of the Total Environment</i> , 2020, 711, 134450.	8.0	6
25	Enrichment of psychrophilic and acidophilic sulfate-reducing bacterial consortia – a solution toward acid mine drainage treatment in cold regions. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 2007-2020.	3.5	6
26	Optimizing demand response of a modular water reuse system in a remote Arctic microgrid. <i>Journal of Cleaner Production</i> , 2022, 346, 131110.	9.3	5
27	Outdoor and indoor concentrations of size-resolved particulate matter during a wildfire episode in interior Alaska and the impact of ventilation. <i>Air Quality, Atmosphere and Health</i> , 2022, 15, 149-158.	3.3	3
28	Environmental Partitioning of Herding Agents Used During an In-Situ Burning Field Study in Alaska. <i>International Oil Spill Conference Proceedings</i> , 2017, 2017, 2935-2954.	0.1	2
29	Ambient Air Quality in the Vicinity of a Herder Mediated In-Situ Burn Field Test in Alaska. <i>International Oil Spill Conference Proceedings</i> , 2017, 2017, 2017149.	0.1	2
30	Aerial Application of Herding Agents can Enhance In-Situ Burning in Partial Ice Cover. <i>International Oil Spill Conference Proceedings</i> , 2017, 2017, 2955-2975.	0.1	1
31	Symbiotic Engineering: A Novel Approach for Environmental Remediation. <i>ACS ES&T Engineering</i> , 2022, 2, 606-616.	7.6	1
32	Modeling and Evaluating Beneficial Matches between Excess Renewable Power Generation and Non-Electric Heat Loads in Remote Alaska Microgrids. <i>Sustainability</i> , 2022, 14, 3884.	3.2	1
33	From Metrics to Action: A Framework for Identifying Limiting Factors, Key Causes, and Possible Solutions in Food-Energy-Water Security. <i>Frontiers in Climate</i> , 2022, 4, .	2.8	0