Muhammad Arslan

List of Publications by Year
in descending order

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59 papers	2,065 citations	279487 23 h-index	243296 44 g-index
59 all docs	59 docs citations	59 times ranked	2015 citing authors

#	Article	IF	Citations
1	Soil conditioners improve rhizodegradation of aged petroleum hydrocarbons and enhance the growth of Lolium multiflorum. Environmental Science and Pollution Research, 2022, 29, 9097-9109.	2.7	15
2	Heterotrophic nitrification and aerobic denitrification process: Promising but a long way to go in the wastewater treatment. Science of the Total Environment, 2022, 805, 150212.	3.9	78
3	Aerobic naphthenic acid-degrading bacteria in petroleum-coke improve oil sands process water remediation in biofilters: DNA-stable isotope probing reveals methylotrophy in Schmutzdecke. Science of the Total Environment, 2022, 815, 151961.	3.9	12
4	Combined solar activated sulfate radical-based advanced oxidation processes (SR-AOPs) and biofiltration for the remediation of dissolved organics in oil sands produced water. Chemical Engineering Journal, 2022, 433, 134579.	6.6	31
5	Constructed and Floating Wetlands for Sustainable Water Reclamation. Sustainability, 2022, 14, 1268.	1.6	2
6	Operational parameters optimization for remediation of crude oil-polluted water in floating treatment wetlands using response surface methodology. Scientific Reports, 2022, 12, 4566.	1.6	11
7	Enhanced wastewater treatment by modified basalt fiber bio-carriers: Effect of etching and surface functionalization. Journal of Cleaner Production, 2022, 343, 130927.	4.6	5
8	Treatment of high-load organic wastewater by novel basalt fiber carrier media. Science of the Total Environment, 2021, 758, 143760.	3.9	8
9	Application of basalt fibers in a biological contact oxidation reactor for the treatment of landfill leachate. Journal of Cleaner Production, 2021, 297, 126648.	4.6	11
10	Bacterial diversity in petroleum coke based biofilters treating oil sands process water. Science of the Total Environment, 2021, 782, 146742.	3.9	11
11	Treatment of printing and dyeing wastewater in biological contact oxidation reactors comprising basalt fibers and combination fillers as bio-carriers: Elucidation of bacterial communities and underlying mechanisms. Science of the Total Environment, 2021, 785, 147272.	3.9	18
12	Removal of per- and poly-fluoroalkyl substances (PFASs) by wetlands: Prospects on plants, microbes and the interplay. Science of the Total Environment, 2021, 800, 149570.	3.9	22
13	Influences of humic-rich natural materials on efficiencies of UASB reactor: A comparative study. Bioresource Technology, 2021, 341, 125844.	4.8	3
14	Bioaugmentation-Enhanced Remediation of Crude Oil Polluted Water in Pilot-Scale Floating Treatment Wetlands. Water (Switzerland), 2021, 13, 2882.	1.2	9
15	Establishing and Optimizing a Bacterial Consortia for Effective Biodegradation of Petroleum Contaminants: Advancing Classical Microbiology via Experimental and Mathematical Approach. Water (Switzerland), 2021, 13, 3311.	1.2	8
16	Phragmites australis in combination with hydrocarbons degrading bacteria is a suitable option for remediation of diesel-contaminated water in floating wetlands. Chemosphere, 2020, 240, 124890.	4.2	62
17	Immobilization of metribuzin degrading bacterial consortium MB3R on biochar enhances bioremediation of potato vegetated soil and restores bacterial community structure. Journal of Hazardous Materials, 2020, 390, 121493.	6.5	50
18	Allium cepa assay based comparative study of selected vegetables and the chromosomal aberrations due to heavy metal accumulation. Saudi Journal of Biological Sciences, 2020, 27, 1368-1374.	1.8	45

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19	Extensive use of face masks during COVID-19 pandemic: (micro-)plastic pollution and potential health concerns in the Arabian Peninsula. Saudi Journal of Biological Sciences, 2020, 27, 3181-3186.	1.8	103
20	High-rate nitrogen removal from carbon limited wastewater using sulfur-based constructed wetland: Impact of sulfur sources. Science of the Total Environment, 2020, 744, 140969.	3.9	33
21	Cyperus laevigatus L. Enhances Diesel Oil Remediation in Synergism with Bacterial Inoculation in Floating Treatment Wetlands. Sustainability, 2020, 12, 2353.	1.6	15
22	Enhanced remediation of Cr⁶⁺ in bacterialâ€assisted floating wetlands. Water and Environment Journal, 2020, 34, 970-978.	1.0	6
23	Aerobic sludge granulation in shale gas flowback water treatment: Assessment of the bacterial community dynamics and modeling of bioreactor performance using artificial neural network. Bioresource Technology, 2020, 313, 123687.	4.8	22
24	Transmission of SARS-CoV-2 via fecal-oral and aerosolsâ€“borne routes: Environmental dynamics and implications for wastewater management in underprivileged societies. Science of the Total Environment, 2020, 743, 140709.	3.9	124
25	Biofiltration of oil sands process water in fixed-bed biofilm reactors shapes microbial community structure for enhanced degradation of naphthenic acids. Science of the Total Environment, 2020, 718, 137028.	3.9	18
26	Low-current electro-oxidation enhanced the biodegradation of the recalcitrant naphthenic acids in oil sands process water. Journal of Hazardous Materials, 2020, 398, 122807.	6.5	18
27	Bacterial Augmented Floating Treatment Wetlands for Efficient Treatment of Synthetic Textile Dye Wastewater. Sustainability, 2020, 12, 3731.	1.6	29
28	Floating treatment wetlands as a suitable option for large-scale wastewater treatment. Nature Sustainability, 2019, 2, 863-871.	11.5	113
29	On-site performance of floating treatment wetland macrocosms augmented with dye-degrading bacteria for the remediation of textile industry wastewater. Journal of Cleaner Production, 2019, 217, 541-548.	4.6	109
30	Floating treatment wetlands as biological buoyant filters for wastewater reclamation. International Journal of Phytoremediation, 2019, 21, 1273-1289.	1.7	32
31	Remediation of textile bleaching effluent by bacterial augmented horizontal flow and vertical flow constructed wetlands: A comparison at pilot scale. Science of the Total Environment, 2019, 685, 370-379.	3.9	47
32	Removal of pharmaceuticals and personal care products using constructed wetlands: effective plant-bacteria synergism may enhance degradation efficiency. Environmental Science and Pollution Research, 2019, 26, 21109-21126.	2.7	68
33	RNA-Seq analysis of soft rush (Juncus effusus): transcriptome sequencing, de novo assembly, annotation, and polymorphism identification. BMC Genomics, 2019, 20, 489.	1.2	6
34	Potentialities of floating wetlands for the treatment of polluted water of river Ravi, Pakistan. Ecological Engineering, 2019, 133, 167-176.	1.6	46
35	Effective plant-endophyte interplay can improve the cadmium hyperaccumulation in Brachiaria mutica. World Journal of Microbiology and Biotechnology, 2019, 35, 188.	1.7	14
36	Removal of hexadecane by hydroponic root mats in partnership with alkane-degrading bacteria: bacterial augmentation enhances systemâ€™s performance. International Journal of Environmental Science and Technology, 2019, 16, 4611-4620.	1.8	19

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37	Enhanced degradation of hydrocarbons by gamma ray induced mutant strain of Pseudomonas putida. Biotechnology Letters, 2019, 41, 391-399.	1.1	8
38	Phragmites australis â€" a helophytic grass â€" can establish successful partnership with phenol-degrading bacteria in a floating treatment wetland. Saudi Journal of Biological Sciences, 2019, 26, 1179-1186.	1.8	52
39	Enhanced degradation of phenol in floating treatment wetlands by plant-bacterial synergism. International Journal of Phytoremediation, 2018, 20, 692-698.	1.7	47
40	Novel Anoxybacillus flavithermus AK1: A Thermophile Isolated from a Hot Spring in Saudi Arabia. Arabian Journal for Science and Engineering, 2018, 43, 73-81.	1.7	5
41	Noise pollution in the hospital environment of a developing country: A case study of Lahore (Pakistan). Archives of Environmental and Occupational Health, 2018, 73, 367-374.	0.7	6
42	Insights into Brevibacillus borstelensis AK1 through Whole Genome Sequencing: A Thermophilic Bacterium Isolated from a Hot Spring in Saudi Arabia. BioMed Research International, 2018, 2018, 1-9.	0.9	22
43	Integrated perspectives on the use of bacterial endophytes in horizontal flow constructed wetlands for the treatment of liquid textile effluent: Phytoremediation advances in the field. Journal of Environmental Management, 2018, 224, 387-395.	3.8	71
44	Treatment of the textile industry effluent in a pilot-scale vertical flow constructed wetland system augmented with bacterial endophytes. Science of the Total Environment, 2018, 645, 966-973.	3.9	84
45	Floating Wetlands: A Sustainable Tool for Wastewater Treatment. Clean - Soil, Air, Water, 2018, 46, 1800120.	0.7	85
46	Evaluating Morphometric Parameters of Haro River Drainage Basin in Northern Pakistan. Polish Journal of Environmental Studies, 2018, 27, 459-465.	0.6	4
47	Impacts of climate change on Capparis spinosa L. based on ecological niche modeling. PeerJ, 2018, 6, e5792.	0.9	20
48	Accumulation of Heavy Metals in Edible Organs of Different Meat Products Available in the Markets of Lahore, Pakistan. Pakistan Journal of Scientific and Industrial Research Series B: Biological Sciences, 2018, 58, 92-97.	0.1	0
49	Plantâ€"bacteria partnerships for the remediation of persistent organic pollutants. Environmental Science and Pollution Research, 2017, 24, 4322-4336.	2.7	164
50	Persistent organic pollutants in Pakistan: Potential threat to ecological integrities in terms of genotoxicity and oxidative stress. Human and Ecological Risk Assessment (HERA), 2017, 23, 1249-1271.	1.7	12
51	Organic Micropollutants in the Environment: Ecotoxicity Potential and Methods for Remediation. , 2017, , 65-99.		16
52	Benthic Foraminifera in Eastern Bahrain: Relationships With Local Pollution Sources. Polish Journal of Environmental Studies, 2017, 26, 969-984.	0.6	5
53	Use of Mercury in Dental Silver Amalgam: An Occupational and Environmental Assessment. BioMed Research International, 2016, 2016, 1-9.	0.9	15
54	Benthic foraminifera in sandy (siliciclastic) coastal sediments of the Arabian Gulf (Saudi Arabia): a technical report. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	8

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55	Effects of Inoculum Density on Plant Growth and Hydrocarbon Degradation. Pedosphere, 2016, 26, 774-778.	2.1	19
56	The Oxidative Stress Response of Mirabilis jalapa to Exhausted Engine Oil (EEO) during Phytoremediation. Polish Journal of Environmental Studies, 2016, 25, 2581-2587.	0.6	6
57	Seasonal variations, environmental parameters, and standing crop assessment of benthic foraminifera in eastern Bahrain, Arabian Gulf. Geological Quarterly, 2016, 60, .	0.1	4
58	Cr-resistant rhizo- and endophytic bacteria associated with Prosopis juliflora and their potential as phytoremediation enhancing agents in metal-degraded soils. Frontiers in Plant Science, 2014, 5, 755.	1.7	114
59	Nutrients Can Enhance the Abundance and Expression of Alkane Hydroxylase CYP153 Gene in the Rhizosphere of Ryegrass Planted in Hydrocarbon-Polluted Soil. PLoS ONE, 2014, 9, e111208.	1.1	75