

Biplob Kumar Pramanik

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

3,152
citations

136885

32
h-index

161767

54
g-index

77
all docs

77
docs citations

77
times ranked

3457
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment of textile wastewater with membrane bioreactor: A critical review. <i>Bioresource Technology</i> , 2016, 204, 202-212.	4.8	266
2	Contamination, bioaccumulation and toxic effects of perfluorinated chemicals (PFCs) in the water environment: a review paper. <i>Water Science and Technology</i> , 2009, 60, 1533-1544.	1.2	221
3	Pathway, classification and removal efficiency of microplastics in wastewater treatment plants. <i>Environmental Pollution</i> , 2019, 255, 113326.	3.7	215
4	The anaerobic digestion process of biogas production from food waste: Prospects and constraints. <i>Bioresource Technology Reports</i> , 2019, 8, 100310.	1.5	153
5	A mechanistic approach of chromium (VI) adsorption onto manganese oxides and boehmite. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103515.	3.3	127
6	Waste materials for wastewater treatment and waste adsorbents for biofuel and cement supplement applications: A critical review. <i>Journal of Cleaner Production</i> , 2020, 255, 120261.	4.6	124
7	A review of the management and treatment of brine solutions. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 625-658.	1.2	113
8	Performance and Kinetic Model of a Single-Stage Anaerobic Digestion System Operated at Different Successive Operating Stages for the Treatment of Food Waste. <i>Processes</i> , 2019, 7, 600.	1.3	88
9	TGA-FTIR study on the slow pyrolysis of lignin and cellulose-rich fractions derived from imidazolium-based ionic liquid pre-treatment of sugarcane straw. <i>Energy Conversion and Management</i> , 2019, 200, 112067.	4.4	77
10	Understanding the fragmentation of microplastics into nano-plastics and removal of nano/microplastics from wastewater using membrane, air flotation and nano-ferrofluid processes. <i>Chemosphere</i> , 2021, 282, 131053.	4.2	72
11	Antiscalcing effect of polyaspartic acid and its derivative for RO membranes used for saline wastewater and brackish water desalination. <i>Desalination</i> , 2017, 404, 224-229.	4.0	67
12	Extraction of strategically important elements from brines: Constraints and opportunities. <i>Water Research</i> , 2020, 168, 115149.	5.3	67
13	A critical review of membrane crystallization for the purification of water and recovery of minerals. <i>Reviews in Environmental Science and Biotechnology</i> , 2016, 15, 411-439.	3.9	61
14	Fate of road-dust associated microplastics and per- and polyfluorinated substances in stormwater. <i>Chemical Engineering Research and Design</i> , 2020, 144, 236-241.	2.7	59
15	Reuse of car wash wastewater by chemical coagulation and membrane bioreactor treatment processes. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 44-48.	1.9	57
16	Understanding the fate of nano-plastics in wastewater treatment plants and their removal using membrane processes. <i>Chemosphere</i> , 2021, 284, 131430.	4.2	57
17	Identification of micro-plastics in Australian road dust. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103647.	3.3	53
18	Effect of biological activated carbon pre-treatment to control organic fouling in the microfiltration of biologically treated secondary effluent. <i>Water Research</i> , 2014, 63, 147-157.	5.3	50

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19	Metal ion and contaminant sorption onto aluminium oxide-based materials: A review and future research. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 6853-6869.	3.3	50
20	Lithium enrichment from a simulated salt lake brine using an integrated nanofiltration-membrane distillation process. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103395.	3.3	50
21	Understanding the fate and control of road dust-associated microplastics in stormwater. <i>Chemical Engineering Research and Design</i> , 2021, 152, 47-57.	2.7	50
22	Recovery of strategically important critical minerals from mine tailings. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107622.	3.3	49
23	Recycling steel slag from municipal wastewater treatment plants into concrete applications – A step towards circular economy. <i>Resources, Conservation and Recycling</i> , 2020, 152, 104533.	5.3	48
24	A comparative study of coagulation, granular- and powdered-activated carbon for the removal of perfluorooctane sulfonate and perfluorooctanoate in drinking water treatment. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 2610-2617.	1.2	44
25	Cometabolic biotransformation and impacts of the anti-inflammatory drug diclofenac on activated sludge microbial communities. <i>Science of the Total Environment</i> , 2019, 657, 739-745.	3.9	43
26	Opportunities and constraints of using the innovative adsorbents for the removal of cobalt(II) from wastewater: A review. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2018, 10, 435-456.	1.7	41
27	Development of zero cement composite for the protection of concrete sewage pipes from corrosion and fatbergs. <i>Resources, Conservation and Recycling</i> , 2021, 164, 105166.	5.3	40
28	Lithium recovery from salt-lake brine: Impact of competing cations, pretreatment and preconcentration. <i>Chemosphere</i> , 2020, 260, 127623.	4.2	38
29	Comparisons between biological filtration and coagulation processes for the removal of dissolved organic nitrogen and disinfection by-products precursors. <i>International Biodeterioration and Biodegradation</i> , 2015, 104, 164-169.	1.9	37
30	Rejection of rare earth elements from a simulated acid mine drainage using forward osmosis: The role of membrane orientation, solution pH, and temperature variation. <i>Chemical Engineering Research and Design</i> , 2019, 126, 53-59.	2.7	37
31	Ultraviolet/persulfate pre-treatment for organic fouling mitigation of forward osmosis membrane: Possible application in nutrient mining from dairy wastewater. <i>Separation and Purification Technology</i> , 2019, 217, 215-220.	3.9	36
32	Recent Advances in the Theory and Application of Nanofiltration: a Review. <i>Current Pollution Reports</i> , 2022, 8, 51-80.	3.1	36
33	A comparative study of biological activated carbon, granular activated carbon and coagulation feed pre-treatment for improving microfiltration performance in wastewater reclamation. <i>Journal of Membrane Science</i> , 2015, 475, 147-155.	4.1	34
34	Removal of PFASs from biosolids using a semi-pilot scale pyrolysis reactor and the application of biosolids derived biochar for the removal of PFASs from contaminated water. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 638-649.	1.2	33
35	Assessment of biological activated carbon treatment to control membrane fouling in reverse osmosis of secondary effluent for reuse in irrigation. <i>Desalination</i> , 2015, 364, 90-95.	4.0	32
36	Slow pyrolysis of biosolids in a bubbling fluidised bed reactor using biochar, activated char and lime. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 144, 104697.	2.6	31

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37	Assess the performance of chemical coagulation process for microplastics removal from stormwater. <i>Chemical Engineering Research and Design</i> , 2021, 155, 11-16.	2.7	29
38	Identification, classification and quantification of microplastics in road dust and stormwater. <i>Chemosphere</i> , 2022, 299, 134389.	4.2	29
39	Long-term operation of biological activated carbon pre-treatment for microfiltration of secondary effluent: Correlation between the organic foulants and fouling potential. <i>Water Research</i> , 2016, 90, 405-414.	5.3	28
40	Removal of emerging perfluorooctanoic acid and perfluorooctane sulfonate contaminants from lake water. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1937-1942.	1.2	28
41	Improvement of heavy metal removal from urban runoff using modified pervious concrete. <i>Science of the Total Environment</i> , 2022, 815, 152936.	3.9	28
42	Treatment of secondary effluent with biological activated carbon to reduce fouling of microfiltration membranes caused by algal organic matter from <i>Microcystis aeruginosa</i> . <i>Journal of Membrane Science</i> , 2015, 496, 125-131.	4.1	25
43	Removal of Cu, Pb and Zn from stormwater using an industrially manufactured sawdust and paddy husk derived biochar. <i>Environmental Technology and Innovation</i> , 2022, 28, 102640.	3.0	22
44	Effect of the coagulation/persulfate pre-treatment to mitigate organic fouling in the forward osmosis of municipal wastewater treatment. <i>Journal of Environmental Management</i> , 2019, 249, 109394.	3.8	21
45	Removal of arsenic and iron removal from drinking water using coagulation and biological treatment. <i>Journal of Water and Health</i> , 2016, 14, 90-96.	1.1	20
46	Reduction of excess sludge production by membrane bioreactor coupled with anoxic side-stream reactors. <i>Journal of Environmental Management</i> , 2021, 281, 111919.	3.8	19
47	Conversion of pyrolytic non-condensable gases from polypropylene co-polymer into bamboo-type carbon nanotubes and high-quality oil using biochar as catalyst. <i>Journal of Environmental Management</i> , 2022, 301, 113791.	3.8	19
48	Metals extraction processes from electronic waste: constraints and opportunities. <i>Environmental Science and Pollution Research</i> , 2022, 29, 32651-32669.	2.7	19
49	Mining phosphorus from anaerobically treated dairy manure by forward osmosis membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 425-432.	2.9	16
50	Recycling biosolids as cement composites in raw, pyrolyzed and ashed forms: A waste utilisation approach to support circular economy. <i>Journal of Building Engineering</i> , 2021, 38, 102199.	1.6	15
51	Application of Victorian brown coal for removal of ammonium and organics from wastewater. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1041-1051.	1.2	14
52	Emerging investigator series: phosphorus recovery from municipal wastewater by adsorption on steelmaking slag preceding forward osmosis: an integrated process. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1559-1567.	1.2	14
53	State-of-the-Art and Opportunities for Forward Osmosis in Sewage Concentration and Wastewater Treatment. <i>Membranes</i> , 2021, 11, 305.	1.4	13
54	Occurrence of perfluoroalkyl and polyfluoroalkyl substances in the water environment and their removal in a water treatment process. <i>Journal of Water Reuse and Desalination</i> , 2015, 5, 196-210.	1.2	12

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55	Effects of hydraulic retention time on the process performance and microbial community structure of an anaerobic single-stage semi-pilot scale reactor for the treatment of food waste. <i>International Biodeterioration and Biodegradation</i> , 2020, 152, 104999.	1.9	12
56	A comparison of environmental impacts between rainwater harvesting and rain garden scenarios. <i>Chemical Engineering Research and Design</i> , 2022, 159, 198-212.	2.7	10
57	Nitrogen-removal efficiency in an upflow partially packed biological aerated filter (BAF) without backwashing process. <i>Journal of Water Reuse and Desalination</i> , 2011, 1, 27-35.	1.2	9
58	Impact of biological filtrations for organic micropollutants and polyfluoroalkyl substances removal from secondary effluent. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 1857-1864.	1.2	9
59	Biofiltration of feedwater to control organic fouling of low pressure membranes. <i>Critical Reviews in Environmental Science and Technology</i> , 2017, 47, 1958-1985.	6.6	8
60	Recycling Crushed Waste Beer Bottle Glass in Fired Clay Bricks. <i>Buildings</i> , 2021, 11, 483.	1.4	8
61	Source and central level recovery of nutrients from urine and wastewater: A state-of-art on nutrients mapping and potential technological solutions. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107146.	3.3	8
62	Impact of biological activated carbon pre-treatment on the hydrophilic fraction of effluent organic matter for mitigating fouling in microfiltration. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2243-2250.	1.2	7
63	Impact of ozonation, anion exchange resin and UV/H ₂ O ₂ pre-treatments to control fouling of ultrafiltration membrane for drinking water treatment. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1383-1389.	1.2	6
64	A Cookbook for Bioethanol from Macroalgae: Review of Selecting and Combining Processes to Enhance Bioethanol Production. <i>Current Pollution Reports</i> , 0, , 1.	3.1	6
65	Life cycle assessment of rainwater harvesting system components “ To determine environmentally sustainable design. <i>Journal of Cleaner Production</i> , 2021, 326, 129286.	4.6	6
66	Monitoring and control of a partially packed biological aerated filter (BAF) reactor for improving nitrogen removal efficiency. <i>Journal of Water Reuse and Desalination</i> , 2011, 1, 160-171.	1.2	5
67	Effect of biological and coagulation pre-treatments to control organic and biofouling potential components of ultrafiltration membrane in the treatment of lake water. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 579-587.	1.2	5
68	Dissolution reaction kinetics and mass transfer during aqueous choline chloride pre-treatment of oak wood. <i>Bioresource Technology</i> , 2021, 322, 124519.	4.8	5
69	Engineered topographies and hydrodynamics in relation to biofouling control” a review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 40678-40692.	2.7	4
70	Development of a geospatial database of tailing storage facilities in Australia using satellite images. <i>Chemosphere</i> , 2022, 303, 135139.	4.2	4
71	Evaluation of surface water quality of the Buriganga River. <i>Journal of Water Reuse and Desalination</i> , 2013, 3, 160-168.	1.2	3
72	Combining Coagulation/MIEX with Biological Activated Carbon Treatment to Control Organic Fouling in the Microfiltration of Secondary Effluent. <i>Membranes</i> , 2016, 6, 39.	1.4	3

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73	Opportunity of Biogas Production from Solid Organic Wastes through Anaerobic Digestion. E3S Web of Conferences, 2018, 65, 05025.	0.2	3
74	Road dust-associated microplastics from vehicle traffics and weathering. , 2022, , 257-271.		3
75	Recycling Cigarette Butts in Ceramic Tiles. Buildings, 2022, 12, 17.	1.4	1
76	Potential of ionic liquid applications in natural gas/biogas sweetening and liquid fuel cleaning process. , 2021, , 121-154.		0