

Biplob Kumar Pramanik

List of Publications by Year in descending order

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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	Conversion of pyrolytic non-condensable gases from polypropylene co-polymer into bamboo-type carbon nanotubes and high-quality oil using biochar as catalyst. Journal of Environmental Management, 2022, 301, 113791.	3.8	19
2	Source and central level recovery of nutrients from urine and wastewater: A state-of-art on nutrients mapping and potential technological solutions. Journal of Environmental Chemical Engineering, 2022, 10, 107146.	3.3	8
3	A comparison of environmental impacts between rainwater harvesting and rain garden scenarios. Chemical Engineering Research and Design, 2022, 159, 198-212.	2.7	10
4	Improvement of heavy metal removal from urban runoff using modified pervious concrete. Science of the Total Environment, 2022, 815, 152936.	3.9	28
5	Recent Advances in the Theory and Application of Nanofiltration: a Review. Current Pollution Reports, 2022, 8, 51-80.	3.1	36
6	Road dust-associated microplastics from vehicle traffics and weathering. , 2022, , 257-271.		3
7	Metals extraction processes from electronic waste: constraints and opportunities. Environmental Science and Pollution Research, 2022, 29, 32651-32669.	2.7	19
8	Recovery of strategically important critical minerals from mine tailings. Journal of Environmental Chemical Engineering, 2022, 10, 107622.	3.3	49
9	Identification, classification and quantification of microplastics in road dust and stormwater. Chemosphere, 2022, 299, 134389.	4.2	29
10	Recycling Cigarette Butts in Ceramic Tiles. Buildings, 2022, 12, 17.	1.4	1
11	Removal of Cu, Pb and Zn from stormwater using an industrially manufactured sawdust and paddy husk derived biochar. Environmental Technology and Innovation, 2022, 28, 102640.	3.0	22
12	Development of a geospatial database of tailing storage facilities in Australia using satellite images. Chemosphere, 2022, 303, 135139.	4.2	4
13	Engineered topographies and hydrodynamics in relation to biofouling control—a review. Environmental Science and Pollution Research, 2021, 28, 40678-40692.	2.7	4
14	Development of zero cement composite for the protection of concrete sewage pipes from corrosion and fatbergs. Resources, Conservation and Recycling, 2021, 164, 105166.	5.3	40
15	Dissolution reaction kinetics and mass transfer during aqueous choline chloride pre-treatment of oak wood. Bioresource Technology, 2021, 322, 124519.	4.8	5
16	Potential of ionic liquid applications in natural gas/biogas sweetening and liquid fuel cleaning process. , 2021, , 121-154.		0
17	Reduction of excess sludge production by membrane bioreactor coupled with anoxic side-stream reactors. Journal of Environmental Management, 2021, 281, 111919.	3.8	19
18	State-of-the-Art and Opportunities for Forward Osmosis in Sewage Concentration and Wastewater Treatment. Membranes, 2021, 11, 305.	1.4	13

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19	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
20	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
21	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
22	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
23	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
24	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
25	Recycling Crushed Waste Beer Bottle Glass in Fired Clay Bricks. <i>Buildings</i> , 2021, 11, 483.	1.4	8
26	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
27	Extraction of strategically important elements from brines: Constraints and opportunities. <i>Water Research</i> , 2020, 168, 115149.	5.3	67
28	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
29	Identification of micro-plastics in Australian road dust. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103647.	3.3	53
30	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
31	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
32	Lithium recovery from salt-lake brine: Impact of competing cations, pretreatment and preconcentration. <i>Chemosphere</i> , 2020, 260, 127623.	4.2	38
33	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
34	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
35	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
36	The anaerobic digestion process of biogas production from food waste: Prospects and constraints. <i>Bioresource Technology Reports</i> , 2019, 8, 100310.	1.5	153

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37	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
38	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
39	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
40	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
41	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
42	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
43	Pathway, classification and removal efficiency of microplastics in wastewater treatment plants. <i>Environmental Pollution</i> , 2019, 255, 113326.	3.7	215
44	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
45	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
46	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
47	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
48	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
49	Opportunity of Biogas Production from Solid Organic Wastes through Anaerobic Digestion. <i>E3S Web of Conferences</i> , 2018, 65, 05025.	0.2	3
50	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
51	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
52	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
53	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
54	Antiscalming 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

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	Treatment of textile wastewater with membrane bioreactor: A critical review. <i>Bioresource Technology</i> , 2016, 204, 202-212.	4.8	266
63	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
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	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
72	Evaluation of surface water quality of the Buriganga River. <i>Journal of Water Reuse and Desalination</i> , 2013, 3, 160-168.	1.2	3

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73	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
74	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
75	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
76	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