Rajan Gandhimathi

List of Publications by Year
in descending order

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67 papers	4,129 citations	159525 30 h-index	114418 63 g-index
67 all docs	67 docs citations	67 times ranked	3975 citing authors

#	Article	IF	Citations
1	Effective degradation of azo dye from textile wastewater by electro-peroxone process. Chemosphere, 2022, 289, 133152.	4.2	28
2	Recovery of phosphate as hydroxyapatite by fluidized bed homogeneous crystallization technique. Environmental Science and Pollution Research, 2022, 29, 46214-46225.	2.7	3
3	Coagulation performance evaluation of alginate as a natural coagulant for the treatment of turbid water. Water Practice and Technology, 2022, 17, 395-404.	1.0	4
4	Mineralization of stabilized landfill leachate by heterogeneous Fenton process with RSM optimization. Separation Science and Technology, 2021, 56, 567-576.	1.3	6
5	Ultrasound aided heterogeneous Fenton degradation of Acid Blue 15 over green synthesized magnetite nanoparticles. Separation and Purification Technology, 2021, 266, 118230.	3.9	19
6	Continuous treatability of oily wastewater from locomotive wash facilities by electrocoagulation. Separation Science and Technology, 2020, 55, 583-589.	1.3	17
7	Optimization of batch electrocoagulation process using Box-Behnken experimental design for the treatment of crude vegetable oil refinery wastewater. Journal of Dispersion Science and Technology, 2020, 41, 592-599.	1.3	21
8	Heterogeneous Fenton process coupled with microfiltration for the treatment of water with higher arsenic content. Chemical Engineering Communications, 2020, 207, 1646-1657.	1.5	10
9	Photoelectro-peroxone process for the degradation of reactive azo dye in aqueous solution. Separation Science and Technology, 2020, 55, 2550-2559.	1.3	11
10	Flyash augmented Fe3O4 as a heterogeneous catalyst for degradation of stabilized landfill leachate in Fenton process. Chemosphere, 2020, 242, 125189.	4.2	47
11	Effectiveness of ozone pretreatment on bioconversion of oily bilge water into biopolymer. Journal of Water Process Engineering, 2020, 36, 101275.	2.6	4
12	Stabilized landfill leachate treatment by zero valent aluminium-acid system combined with hydrogen peroxide and persulfate based advanced oxidation process. Waste Management, 2020, 106, 1-11.	3.7	56
13	Wastewater treatment by microbial fuel cell coupled with peroxicoagulation process. Clean Technologies and Environmental Policy, 2019, 21, 2033-2045.	2.1	28
14	Organic removal and synthesis of biopolymer from synthetic oily bilge water using the novel mixed bacterial consortium. Bioresource Technology, 2019, 273, 169-176.	4.8	22
15	Removal of rhodamine B dye from aqueous solution by electro-Fenton process using iron-doped mesoporous silica as a heterogeneous catalyst. Chemosphere, 2018, 200, 446-454.	4.2	87
16	Review of zero-valent aluminium based water and wastewater treatment methods. Chemosphere, 2018, 200, 621-631.	4.2	75
17	Combined heterogeneous Electro-Fenton and biological process for the treatment of stabilized landfill leachate. Journal of Environmental Management, 2018, 210, 328-337.	3.8	114
18	Stabilized landfill leachate treatment using heterogeneous Fenton and electro-Fenton processes. Chemosphere, 2018, 210, 38-43.	4.2	126

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19	Potential Use of Hibiscus Rosa-Sinensis Leaf Extract for the Destabilization of Turbid Water. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	11
20	Combined Electro-Fenton and Biological Processes for the Treatment of Industrial Textile Effluent: Mineralization and Toxicity Analysis. Journal of Hazardous, Toxic, and Radioactive Waste, 2017, 21, .	1.2	29
21	Performance of Natural Coagulant Extracted from Plantago ovata Seed for the Treatment of Turbid Water. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	13
22	Treatment of Stabilized Leachate by Ferrous-Activated Persulfate Oxidative System. Journal of Hazardous, Toxic, and Radioactive Waste, 2017, 21, .	1.2	32
23	STUDIES ON THE REMOVAL OF PHOSPHATE FROM WATER BY ELECTROCOAGULATION WITH ALUMINIUM PLATE ELECTRODES. Environmental Engineering and Management Journal, 2017, 16, 2293-2301.	0.2	11
24	Effect of Solution pH on Leachate Treatment Mechanism of Peroxicoagulation Process. Journal of Hazardous, Toxic, and Radioactive Waste, 2016, 20, .	1.2	19
25	Investigation of Biobarrier for Leachate Containment through Batch and Continuous Flow Studies. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	4
26	Granular activated carbon as a particle electrode in threeâ€dimensional electrochemical treatment of reactive black B from aqueous solution. Environmental Progress and Sustainable Energy, 2016, 35, 1616-1622.	1.3	39
27	Removal of reactive magenta-MB from aqueous solution by persulphate-based advanced oxidation process. Desalination and Water Treatment, 2016, 57, 11872-11878.	1.0	23
28	Investigation on the working performance of partitionable-space enhanced coagulation reactor. Separation Science and Technology, 2016, 51, 1220-1226.	1.3	2
29	Removal of organics from bilge water by batch electrocoagulation process. Separation and Purification Technology, 2016, 159, 108-115.	3.9	104
30	Comparative removal of Magenta MB from aqueous solution by homogeneous and heterogeneous photo-Fenton processes. Desalination and Water Treatment, 2016, 57, 12832-12841.	1.0	19
31	Optimization of salicylic acid removal by electro Fenton process in a continuous stirred tank reactor using response surface methodology. Desalination and Water Treatment, 2016, 57, 4234-4244.	1.0	15
32	Assessment of Heavy Metals in Leachate of Concrete Made With E-Waste Plastic. Advances in Civil Engineering Materials, 2016, 5, 256-262.	0.2	2
33	Electro Fenton oxidation for the removal of Rhodamine B from aqueous solution in a bubble column reactor under continuous mode. Desalination and Water Treatment, 2015, 55, 263-271.	1.0	23
34	Laboratory Study on Leachate Treatment by Electrocoagulation Using Fly Ash and Bottom Ash as Supporting Electrolytes. Journal of Hazardous, Toxic, and Radioactive Waste, 2015, 19, .	1.2	24
35	Textile Wastewater Treatment by Electro-Fenton Process in Batch and Continuous Modes. Journal of Hazardous, Toxic, and Radioactive Waste, 2015, 19, .	1.2	27
36	Pineapple leaf (Ananas comosus) powder as a biosorbent for the removal of crystal violet from aqueous solution. Desalination and Water Treatment, 2015, 54, 2041-2054.	1.0	37

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37	Comparison of homogeneous and heterogeneous Fenton processes for the removal of reactive dye Magenta MB from aqueous solution. Desalination and Water Treatment, 2015, 53, 109-118.	1.0	90
38	Alkali-treated fly ash for the removal of fluoride from aqueous solutions. Desalination and Water Treatment, 2014, 52, 3466-3476.	1.0	33
39	NaHCO3 enhanced Rhodamine B removal from aqueous solution by graphiteâ€“graphite electro Fenton system. Separation and Purification Technology, 2014, 132, 568-576.	3.9	87
40	Bioclogging in porous media: influence in reduction of hydraulic conductivity and organic contaminants during synthetic leachate permeation. Journal of Environmental Health Science & Engineering, 2014, 12, 126.	1.4	16
41	Effectiveness of natural coagulants from non-plant-based sources for water and wastewater treatmentâ€”a review. Desalination and Water Treatment, 2014, 52, 6030-6039.	1.0	31
42	Removal of Rhodamine B from aqueous solution using graphiteâ€“graphite electro-Fenton system. Desalination and Water Treatment, 2014, 52, 1872-1877.	1.0	70
43	Magnetite as a heterogeneous electro Fenton catalyst for the removal of Rhodamine B from aqueous solution. RSC Advances, 2014, 4, 5698.	1.7	166
44	Effect of solution pH on the performance of three electrolytic advanced oxidation processes for the treatment of textile wastewater and sludge characteristics. RSC Advances, 2014, 4, 27946.	1.7	82
45	Electrolytic removal of Rhodamine B from aqueous solution by peroxicoagulation process. Environmental Science and Pollution Research, 2014, 21, 8585-8594.	2.7	53
46	Comparative Removal of Rhodamine B from Aqueous Solution by Electroâ€‹<scp>F</scp>enton and Electroâ€‹<scp>F</scp>entonâ€‹<scp>L</scp>ike Processes. Clean - Soil, Air, Water, 2014, 42, 779-784.	0.7	55
47	Treatment of stabilized landfill leachate using peroxicoagulation process. Separation and Purification Technology, 2014, 129, 64-70.	3.9	52
48	Electroâ€Fenton Oxidation of Salicylic Acid from Aqueous Solution: Batch Studies and Degradation Pathway. Clean - Soil, Air, Water, 2014, 42, 1701-1711.	0.7	48
49	Investigation of physicochemical characteristics and heavy metal distribution profile in groundwater system around the open dump site. Applied Water Science, 2013, 3, 387-399.	2.8	47
50	Adsorptive removal of Pb(II) from aqueous solution using nano-sized hydroxyapatite. Applied Water Science, 2013, 3, 105-113.	2.8	51
51	Assessment of heavy metal contamination in soil due to leachate migration from an open dumping site. Applied Water Science, 2013, 3, 193-205.	2.8	172
52	Use of combined coagulation-adsorption process as pretreatment of landfill leachate. Iranian Journal of Environmental Health Science & Engineering, 2013, 10, 24.	1.8	43
53	Use of furnace slag and welding slag as replacement for sand in concrete. International Journal of Energy and Environmental Engineering, 2013, 4, 3.	1.3	25
54	Utilization of textile effluent wastewater treatment plant sludge as brick material. Journal of Material Cycles and Waste Management, 2013, 15, 564-570.	1.6	50

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55	Novel Agricultural Waste Adsorbent,Cyperus rotundus, for Removal of Heavy Metal Mixtures from Aqueous Solutions. Environmental Engineering Science, 2013, 30, 74-81.	0.8	12
56	Degradation of dyes from aqueous solution by Fenton processes: a review. Environmental Science and Pollution Research, 2013, 20, 2099-2132.	2.7	541
57	Fluoride sorption by treated fly ash: kinetic and isotherm studies. Journal of Material Cycles and Waste Management, 2013, 15, 381-392.	1.6	10
58	Electro-Fenton Method Oxidation of Salicylic Acid in Aqueous Solution with Graphite Electrodes. Environmental Engineering Science, 2013, 30, 750-756.	0.8	25
59	Modeling of Crystal Violet Adsorption by Bottom Ash Column. Water Environment Research, 2013, 85, 495-502.	1.3	5
60	Biosorption of Cu(II) and Zn(II) ions from aqueous solution by water hyacinth (Eichhornia crassipes). International Journal of Environment and Waste Management, 2013, 11, 365.	0.2	7
61	Kinetics and equilibrium studies for the removal of heavy metals in both single and binary systems using hydroxyapatite. Applied Water Science, 2012, 2, 187-197.	2.8	47
62	Trends in electro-Fenton process for water and wastewater treatment: An overview. Desalination, 2012, 299, 1-15.	4.0	810
63	Adsorption and desorption characteristics of crystal violet in bottom ash column. Journal of Urban and Environmental Engineering, 2012, 6, 18-29.	0.3	38
64	REMOVAL OF Cd (II) FROM AQUEOUS SOLUTION BY ADSORPTION ONTO COIR PITH, AN AGRICULTURAL SOLID WASTE: BATCH EXPERIMENTAL STUDY. Environmental Engineering and Management Journal, 2011, 10, 1667-1673.	0.2	14
65	Removal of heavy metal ions from municipal solid waste leachate using coal fly ash as an adsorbent. Journal of Hazardous Materials, 2009, 169, 351-359.	6.5	323
66	Solid waste characterisation and the assessment of the effect of dumping site leachate on groundwater quality: a case study. International Journal of Environment and Waste Management, 2009, 3, 65.	0.2	12
67	Performance of various media in vertical flow constructed wetland for the treatment of domestic wastewater. , 0, 146, 57-67.		2