

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	Trends in electro-Fenton process for water and wastewater treatment: An overview. <i>Desalination</i> , 2012, 299, 1-15.	4.0	810
2	Degradation of dyes from aqueous solution by Fenton processes: a review. <i>Environmental Science and Pollution Research</i> , 2013, 20, 2099-2132.	2.7	541
3	Removal of heavy metal ions from municipal solid waste leachate using coal fly ash as an adsorbent. <i>Journal of Hazardous Materials</i> , 2009, 169, 351-359.	6.5	323
4	Assessment of heavy metal contamination in soil due to leachate migration from an open dumping site. <i>Applied Water Science</i> , 2013, 3, 193-205.	2.8	172
5	Magnetite as a heterogeneous electro Fenton catalyst for the removal of Rhodamine B from aqueous solution. <i>RSC Advances</i> , 2014, 4, 5698.	1.7	166
6	Stabilized landfill leachate treatment using heterogeneous Fenton and electro-Fenton processes. <i>Chemosphere</i> , 2018, 210, 38-43.	4.2	126
7	Combined heterogeneous Electro-Fenton and biological process for the treatment of stabilized landfill leachate. <i>Journal of Environmental Management</i> , 2018, 210, 328-337.	3.8	114
8	Removal of organics from bilge water by batch electrocoagulation process. <i>Separation and Purification Technology</i> , 2016, 159, 108-115.	3.9	104
9	Comparison of homogeneous and heterogeneous Fenton processes for the removal of reactive dye Magenta MB from aqueous solution. <i>Desalination and Water Treatment</i> , 2015, 53, 109-118.	1.0	90
10	NaHCO ₃ enhanced Rhodamine B removal from aqueous solution by graphite electro Fenton system. <i>Separation and Purification Technology</i> , 2014, 132, 568-576.	3.9	87
11	Removal of rhodamine B dye from aqueous solution by electro-Fenton process using iron-doped mesoporous silica as a heterogeneous catalyst. <i>Chemosphere</i> , 2018, 200, 446-454.	4.2	87
12	Effect of solution pH on the performance of three electrolytic advanced oxidation processes for the treatment of textile wastewater and sludge characteristics. <i>RSC Advances</i> , 2014, 4, 27946.	1.7	82
13	Review of zero-valent aluminium based water and wastewater treatment methods. <i>Chemosphere</i> , 2018, 200, 621-631.	4.2	75
14	Removal of Rhodamine B from aqueous solution using graphite electro-Fenton system. <i>Desalination and Water Treatment</i> , 2014, 52, 1872-1877.	1.0	70
15	Stabilized landfill leachate treatment by zero valent aluminium-acid system combined with hydrogen peroxide and persulfate based advanced oxidation process. <i>Waste Management</i> , 2020, 106, 1-11.	3.7	56
16	Comparative Removal of Rhodamine B from Aqueous Solution by Electro-Fenton and Electro-Fenton-Like Processes. <i>Clean - Soil, Air, Water</i> , 2014, 42, 779-784.	0.7	55
17	Electrolytic removal of Rhodamine B from aqueous solution by peroxicoagulation process. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8585-8594.	2.7	53
18	Treatment of stabilized landfill leachate using peroxicoagulation process. <i>Separation and Purification Technology</i> , 2014, 129, 64-70.	3.9	52

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19	Adsorptive removal of Pb(II) from aqueous solution using nano-sized hydroxyapatite. Applied Water Science, 2013, 3, 105-113.	2.8	51
20	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
21	Electro-Fenton Oxidation of Salicylic Acid from Aqueous Solution: Batch Studies and Degradation Pathway. Clean - Soil, Air, Water, 2014, 42, 1701-1711.	0.7	48
22	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
23	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
24	Flyash augmented Fe ₃ O ₄ as a heterogeneous catalyst for degradation of stabilized landfill leachate in Fenton process. Chemosphere, 2020, 242, 125189.	4.2	47
25	Use of combined coagulation-adsorption process as pretreatment of landfill leachate. Iranian Journal of Environmental Health Science & Engineering, 2013, 10, 24.	1.8	43
26	Granular activated carbon as a particle electrode in three-dimensional electrochemical treatment of reactive black B from aqueous solution. Environmental Progress and Sustainable Energy, 2016, 35, 1616-1622.	1.3	39
27	Adsorption and desorption characteristics of crystal violet in bottom ash column. Journal of Urban and Environmental Engineering, 2012, 6, 18-29.	0.3	38
28	Pineapple leaf (<i>Ananas comosus</i>) powder as a biosorbent for the removal of crystal violet from aqueous solution. Desalination and Water Treatment, 2015, 54, 2041-2054.	1.0	37
29	Alkali-treated fly ash for the removal of fluoride from aqueous solutions. Desalination and Water Treatment, 2014, 52, 3466-3476.	1.0	33
30	Treatment of Stabilized Leachate by Ferrous-Activated Persulfate Oxidative System. Journal of Hazardous, Toxic, and Radioactive Waste, 2017, 21, .	1.2	32
31	Effectiveness of natural coagulants from non-plant-based sources for water and wastewater treatment—a review. Desalination and Water Treatment, 2014, 52, 6030-6039.	1.0	31
32	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
33	Wastewater treatment by microbial fuel cell coupled with peroxicoagulation process. Clean Technologies and Environmental Policy, 2019, 21, 2033-2045.	2.1	28
34	Effective degradation of azo dye from textile wastewater by electro-peroxone process. Chemosphere, 2022, 289, 133152.	4.2	28
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	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

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37	Electro-Fenton Method Oxidation of Salicylic Acid in Aqueous Solution with Graphite Electrodes. <i>Environmental Engineering Science</i> , 2013, 30, 750-756.	0.8	25
38	Laboratory Study on Leachate Treatment by Electrocoagulation Using Fly Ash and Bottom Ash as Supporting Electrolytes. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2015, 19, .	1.2	24
39	Electro Fenton oxidation for the removal of Rhodamine B from aqueous solution in a bubble column reactor under continuous mode. <i>Desalination and Water Treatment</i> , 2015, 55, 263-271.	1.0	23
40	Removal of reactive magenta-MB from aqueous solution by persulphate-based advanced oxidation process. <i>Desalination and Water Treatment</i> , 2016, 57, 11872-11878.	1.0	23
41	Organic removal and synthesis of biopolymer from synthetic oily bilge water using the novel mixed bacterial consortium. <i>Bioresource Technology</i> , 2019, 273, 169-176.	4.8	22
42	Optimization of batch electrocoagulation process using Box-Behnken experimental design for the treatment of crude vegetable oil refinery wastewater. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 592-599.	1.3	21
43	Effect of Solution pH on Leachate Treatment Mechanism of Peroxycogulation Process. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2016, 20, .	1.2	19
44	Comparative removal of Magenta MB from aqueous solution by homogeneous and heterogeneous photo-Fenton processes. <i>Desalination and Water Treatment</i> , 2016, 57, 12832-12841.	1.0	19
45	Ultrasound aided heterogeneous Fenton degradation of Acid Blue 15 over green synthesized magnetite nanoparticles. <i>Separation and Purification Technology</i> , 2021, 266, 118230.	3.9	19
46	Continuous treatability of oily wastewater from locomotive wash facilities by electrocoagulation. <i>Separation Science and Technology</i> , 2020, 55, 583-589.	1.3	17
47	Bioclogging in porous media: influence in reduction of hydraulic conductivity and organic contaminants during synthetic leachate permeation. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 126.	1.4	16
48	Optimization of salicylic acid removal by electro Fenton process in a continuous stirred tank reactor using response surface methodology. <i>Desalination and Water Treatment</i> , 2016, 57, 4234-4244.	1.0	15
49	REMOVAL OF Cd (II) FROM AQUEOUS SOLUTION BY ADSORPTION ONTO COIR PITH, AN AGRICULTURAL SOLID WASTE: BATCH EXPERIMENTAL STUDY. <i>Environmental Engineering and Management Journal</i> , 2011, 10, 1667-1673.	0.2	14
50	Performance of Natural Coagulant Extracted from <i>Plantago ovata</i> Seed for the Treatment of Turbid Water. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	13
51	Solid waste characterisation and the assessment of the effect of dumping site leachate on groundwater quality: a case study. <i>International Journal of Environment and Waste Management</i> , 2009, 3, 65.	0.2	12
52	Novel Agricultural Waste Adsorbent, <i>Cyperus rotundus</i> , for Removal of Heavy Metal Mixtures from Aqueous Solutions. <i>Environmental Engineering Science</i> , 2013, 30, 74-81.	0.8	12
53	Potential Use of <i>Hibiscus Rosa-Sinensis</i> Leaf Extract for the Destabilization of Turbid Water. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	11
54	Photoelectro-peroxone process for the degradation of reactive azo dye in aqueous solution. <i>Separation Science and Technology</i> , 2020, 55, 2550-2559.	1.3	11

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55	STUDIES ON THE REMOVAL OF PHOSPHATE FROM WATER BY ELECTROCOAGULATION WITH ALUMINIUM PLATE ELECTRODES. <i>Environmental Engineering and Management Journal</i> , 2017, 16, 2293-2301.	0.2	11
56	Fluoride sorption by treated fly ash: kinetic and isotherm studies. <i>Journal of Material Cycles and Waste Management</i> , 2013, 15, 381-392.	1.6	10
57	Heterogeneous Fenton process coupled with microfiltration for the treatment of water with higher arsenic content. <i>Chemical Engineering Communications</i> , 2020, 207, 1646-1657.	1.5	10
58	Biosorption of Cu(II) and Zn(II) ions from aqueous solution by water hyacinth (<i>Eichhornia crassipes</i>). <i>International Journal of Environment and Waste Management</i> , 2013, 11, 365.	0.2	7
59	Mineralization of stabilized landfill leachate by heterogeneous Fenton process with RSM optimization. <i>Separation Science and Technology</i> , 2021, 56, 567-576.	1.3	6
60	Modeling of Crystal Violet Adsorption by Bottom Ash Column. <i>Water Environment Research</i> , 2013, 85, 495-502.	1.3	5
61	Investigation of Biobarrier for Leachate Containment through Batch and Continuous Flow Studies. <i>Journal of Environmental Engineering, ASCE</i> , 2016, 142, .	0.7	4
62	Effectiveness of ozone pretreatment on bioconversion of oily bilge water into biopolymer. <i>Journal of Water Process Engineering</i> , 2020, 36, 101275.	2.6	4
63	Coagulation performance evaluation of alginate as a natural coagulant for the treatment of turbid water. <i>Water Practice and Technology</i> , 2022, 17, 395-404.	1.0	4
64	Recovery of phosphate as hydroxyapatite by fluidized bed homogeneous crystallization technique. <i>Environmental Science and Pollution Research</i> , 2022, 29, 46214-46225.	2.7	3
65	Investigation on the working performance of partitionable-space enhanced coagulation reactor. <i>Separation Science and Technology</i> , 2016, 51, 1220-1226.	1.3	2
66	Assessment of Heavy Metals in Leachate of Concrete Made With E-Waste Plastic. <i>Advances in Civil Engineering Materials</i> , 2016, 5, 256-262.	0.2	2
67	Performance of various media in vertical flow constructed wetland for the treatment of domestic wastewater. , 0, 146, 57-67.		2