Vikas Kumar Sangal

List of Publications by Year
in descending order

59 papers	1,295 citations	331538 21 h-index	377752 34 g-index
61 all docs	61 docs citations	61 times ranked	1424 citing authors

#	Article	IF	Citations
1	Photocatalytic Degradation of Bisphenol-A using N, Co Codoped TiO2 Catalyst under Solar Light. Scientific Reports, 2019, 9, 765.	1.6	102
2	Electrocatalytic oxidative treatment of real textile wastewater in continuous reactor: Degradation pathway and disposability study. Journal of Hazardous Materials, 2018, 346, 242-252.	6.5	73
3	Evaluation and disposability study of actual textile wastewater treatment by electro-oxidation method using Ti/RuO2 anode. Chemical Engineering Research and Design, 2017, 111, 13-22.	2.7	72
4	Treatment of electroplating industry wastewater: a review on the various techniques. Environmental Science and Pollution Research, 2022, 29, 72196-72246.	2.7	63
5	Feasibility of using combined TiO2 photocatalysis and RBC process for the treatment of real pharmaceutical wastewater. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 263-270.	2.0	60
6	Parametric study of electro-Fenton treatment for real textile wastewater, disposal study and its cost analysis. International Journal of Environmental Science and Technology, 2019, 16, 801-810.	1.8	58
7	Statistical Optimization of Process Parameters for Cr (VI) Biosorption onto Mixed Cultures of Pseudomonas aeruginosa and Bacillus subtilis. Clean - Soil, Air, Water, 2009, 37, 319-327.	0.7	49
8	Optimization of structural and operational variables for the energy efficiency of a divided wall distillation column. Computers and Chemical Engineering, 2012, 40, 33-40.	2.0	47
9	Transformation products and degradation pathway of textile industry wastewater pollutants in Electro-Fenton process. Chemosphere, 2018, 207, 690-698.	4.2	43
10	Modeling and evaluation of electro-oxidation of dye wastewater using artificial neural networks. RSC Advances, 2015, 5, 34663-34671.	1.7	38
11	Synthesis, characterization and anticancer activities of metal ions Fe and Cu doped and co-doped TiO₂. New Journal of Chemistry, 2017, 41, 9931-9937.	1.4	33
12	Photoelectrocatalytic treatment of recalcitrant compounds and bleach stage pulp and paper mill effluent using Au-TiO2 nanotube electrode. Chemical Engineering Journal, 2021, 408, 127287.	6.6	32
13	Electrocoagulation of Soluble Oil Wastewater: Parametric and Kinetic Study. Separation Science and Technology, 2013, 48, 1062-1072.	1.3	31
14	Modeling and optimization of fixed mode dual effect (photocatalysis and photo-Fenton) assisted Metronidazole degradation using ANN coupled with genetic algorithm. Journal of Environmental Management, 2019, 250, 109428.	3.8	30
15	Optimization of a divided wall column for the separation of C4-C6 normal paraffin mixture using Box-Behnken design. Chemical Industry and Chemical Engineering Quarterly, 2013, 19, 107-119.	0.4	29
16	Synthesis of highly stable and efficient Ag loaded GO/TiO2 nanotube electrodes for the photoelectrocatalytic degradation of pentachlorophenol. Journal of Electroanalytical Chemistry, 2018, 814, 118-126.	1.9	29
17	Electrochemical Treatment of Reactive Black 5 Textile Wastewater: Optimization, Kinetics, and Disposal Study. Water Environment Research, 2013, 85, 2294-2306.	1.3	28
18	Reducing energy requirements for ETBE synthesis using reactive dividing wall distillation column. Energy, 2017, 126, 671-676.	4.5	25

#	Article	IF	Citations
19	Review on the treatment of electroplating industry wastewater by electrochemical methods. Materials Today: Proceedings, 2021, 47, 1472-1479.	0.9	25
20	Plug flow approaching novel reactor employing in-situ dual effect of photocatalysis and photo-Fenton for the degradation of metronidazole. Chemical Engineering Journal, 2020, 382, 122772.	6.6	24
21	Once through continuous flow removal of metronidazole by dual effect of photo-Fenton and photocatalysis in a compound parabolic concentrator at pilot plant scale. Chemical Engineering Journal, 2020, 388, 124184.	6.6	24
22	Decolorization and degradation of Reactive Black 5 dye by photocatalysis: modeling, optimization and kinetic study. Desalination and Water Treatment, 2016, 57, 18003-18015.	1.0	23
23	PROCESS PARAMETRIC OPTIMIZATION OF A DIVIDED WALL DISTILLATION COLUMN. Chemical Engineering Communications, 2014, 201, 72-87.	1.5	22
24	Stability and durability studies of TiO₂ coated immobilized system for the degradation of imidacloprid. New Journal of Chemistry, 2017, 41, 6296-6304.	1.4	20
25	Synergistic degradation employing photocatalysis and photo-Fenton process of real industrial pharmaceutical effluent utilizing the Iron-Titanium dioxide composite. Chemical Engineering Research and Design, 2021, 146, 564-576.	2.7	20
26	Application of mixed metal oxide anode for the electro-oxidation/disinfection of synthetic urine: Potential of harnessing molecular hydrogen generation. Journal of Environmental Management, 2020, 255, 109847.	3.8	19
27	In-situ dual effect of novel Fe-TiO2 composite for the degradation of phenazone. Separation and Purification Technology, 2019, 211, 391-400.	3.9	18
28	Treatment of tannery industry effluent by electrochemical methods: A review. Materials Today: Proceedings, 2021, 47, 1438-1444.	0.9	18
29	Parametric optimization for the treatment of human urine metabolite, creatinine using electro-oxidation. Journal of Electroanalytical Chemistry, 2018, 809, 136-146.	1.9	17
30	Performance and Evaluation of Electro-Oxidation Treatment of Human Urine Metabolite Uric Acid Using Response Surface Methodology. Journal of the Electrochemical Society, 2017, 164, E312-E320.	1.3	16
31	GO Mediated TiO₂Nanotube Electrode for the Photoelectrocatalytic Degradation of Pentachlorophenol. Journal of the Electrochemical Society, 2018, 165, H16-H26.	1.3	16
32	Optimization of photocatalytic process parameters for the degradation of acrylonitrile using Box Behnken Design. Desalination and Water Treatment, 2015, 55, 1501-1508.	1.0	15
33	A facile synthesis of Cs loaded TiO2 nanotube photoelectrode for the removal of 4-chloroguaiacol. Chemosphere, 2019, 218, 687-695.	4.2	14
34	Parametric optimization and MCR-ALS kinetic modeling of electro oxidation process for the treatment of textile wastewater. Chemometrics and Intelligent Laboratory Systems, 2020, 203, 104027.	1.8	14
35	Parametric Study for the Treatment of Simulated Cetirizine Wastewater Using Electrochemical Methods: Optimization and Cost Analysis. Journal of the Electrochemical Society, 2018, 165, E556-E562.	1.3	12
36	Applications of doped mixed metal oxide anode for the electro-oxidation treatment and mineralization of urine metabolite, uric acid. Journal of Water Process Engineering, 2019, 32, 100944.	2.6	12

#	Article	IF	Citations
37	Radiotracer investigation and modeling of an activated sludge system in a pulp and paper industry. Applied Radiation and Isotopes, 2017, 130, 270-275.	0.7	11
38	Optimization of Reactive Dividingâ€Wall Distillation Column for Ethyl tâ€Butyl Ether Synthesis. Chemical Engineering and Technology, 2018, 41, 1057-1065.	0.9	10
39	Modeling, Optimization and Kinetic Study for Photocatalytic Treatment of Ornidazole Using Slurry and Fixed-Bed Approach. Arabian Journal for Science and Engineering, 2018, 43, 6191-6202.	1.7	10
40	Evaluation and optimization of the process parameters for the photo-electrochemical treatment of urea using mixed metal oxide anodes. Chemical Engineering Research and Design, 2019, 130, 197-208.	2.7	10
41	Importance of pressure drop in divided wall distillation column. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 85-92.	0.8	9
42	Divided wall distillation column: rationalization of degree of freedom analysis. Theoretical Foundations of Chemical Engineering, 2012, 46, 319-328.	0.2	8
43	Potential use of waste foundry sand in dual process (photocatalysis and photo-Fenton) for the effective removal of phenazone from water: Slurry and fixed-bed approach. Journal of Environmental Management, 2019, 233, 793-801.	3.8	8
44	Catalyst-coated cement beads for the degradation and mineralization of fungicide carbendazim using laboratory and pilot-scale reactor: catalyst stability analysis. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 45	1.2	7
45	Hydrodynamics and parametric study of an activated sludge process using residence time distribution technique. Environmental Engineering Research, 2020, 25, 400-408.	1.5	7
46	Adsorptive interaction of 4-aminobiphenyl with mesoporous MCM-41. Physics and Chemistry of Liquids, 2019, 57, 720-732.	0.4	6
47	Tannery Dye Wastewater Treatment in Batch and Once through Continuous Mode by Electro-Oxidation Using MMO Electrode. Journal of the Electrochemical Society, 2022, 169, 043512.	1.3	6
48	Aromatic amines equilibrium sorptive interaction with synthesized silica based mesoporous MCM-41: Physicochemical evaluation and isotherm modeling. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 286-294.	0.9	5
49	Single and Binary Adsorption of Zn (II) and Cr (VI) Heavy Metals onto Synthesized Silica â€Based MCMâ€41. ChemistrySelect, 2019, 4, 2576-2584.	0.7	5
50	Demulsification of Cutting Oil Emulsion by Electro-Oxidation Process: Batch and Continuous Mode. Journal of the Electrochemical Society, 2017, 164, E496-E504.	1.3	4
51	Electro-oxidative Decolouration and Degradation of Amaranth Dye Wastewater in Batch Setup using Novel Ti/TiO2-Ru2O-IrO2 Anode. Asian Journal of Water, Environment and Pollution, 2021, 18, 69-77.	0.4	4
52	Radiotracer investigation of a pulp and paper mill effluent treatment plant. Nukleonika, 2017, 62, 289-294.	0.3	3
53	Flyâ€Ash Incorporated Slurry and Fixedâ€Bed Approach for Heterogeneous Solar Photoâ€Fenton Degradation of Isoproturon. Environmental Progress and Sustainable Energy, 2018, 37, 1901-1907.	1.3	3
54	Concentrating and Nonconcentrating Slurry and Fixed-Bed Solar Reactors for the Degradation of Herbicide Isoproturon. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.1	3

#	Article	IF	Citations
55	Energy efficient global optimisation of reactive dividing wall distillation column. Indian Chemical Engineer, 2020, 62, 15-27.	0.9	2
56	An Inside for the Treatment of Tannery Industry Effluent. Environmental Science and Engineering, 2022, , 909-925.	0.1	2
57	Application of tracer technology in wastewater treatment processes: a review. Chemical Engineering Communications, 2023, 210, 16-33.	1.5	1
58	Photocatalytic Treatment of Binary Mixture of Dyes using UV/TiO₂ Process: Calibration, Modeling, Optimization and Mineralization Study. International Journal of Chemical Reactor Engineering, 2017, 15, .	0.6	0
59	Effects of Thermal Feed Quality on the Performance of a Divided Wall Distillation Column. Theoretical Foundations of Chemical Engineering, 2018, 52, 264-270.	0.2	0