

Jatinder K Ratan

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

272
citations

1163117

8
h-index

996975

15
g-index

20
all docs

20
docs citations

20
times ranked

349
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic degradation in annular reactor: Modelization and optimization using computational fluid dynamics (CFD) and response surface methodology (RSM). <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 398-405.	6.7	51
2	Synthesis of activated carbon from agricultural waste using a simple method: Characterization, parametric and isotherms study. <i>Materials Today: Proceedings</i> , 2018, 5, 3334-3345.	1.8	48
3	Photocatalysis by Nanoparticles of Titanium Dioxide for Drinking Water Purification: A Conceptual and State-of-Art Review. <i>Materials Science Forum</i> , 0, 764, 130-150.	0.3	29
4	Photodegradation of amaranth in aqueous solution catalyzed by immobilized nanoparticles of titanium dioxide. <i>International Journal of Environmental Science and Technology</i> , 2012, 9, 479-484.	3.5	27
5	Enhancement of photocatalytic activity of self-cleaning cement. <i>Materials Letters</i> , 2019, 244, 178-181.	2.6	24
6	Photo-induced hydrophilicity of microsized-TiO ₂ based self-cleaning cement. <i>Materials Letters</i> , 2020, 260, 126888.	2.6	22
7	Study on the physico-chemical properties of reduced graphene oxide with different degrees of reduction temperature. <i>Journal of the Iranian Chemical Society</i> , 2021, 18, 201-211.	2.2	12
8	Kinetic modelling and proposed mechanistic pathway for photocatalytic degradation of 4-aminopyridine using cuprous oxide nanoparticles. <i>Research on Chemical Intermediates</i> , 2021, 47, 1535-1562.	2.7	12
9	Assessment of the negative effects of various inorganic water pollutants on the biosphere—an overview. , 2020, , 73-96.		10
10	Capture and Release Recyclable Dimethylaminomethyl-Calixarene Functional Cloths for Point-of-Use Removal of Highly Toxic Chromium Water Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52136-52145.	8.0	9
11	Microsized-titanium dioxide based self-cleaning cement: incorporation of calcined dolomite for enhancement of photocatalytic activity. <i>Materials Research Express</i> , 2018, 5, 115509.	1.6	8
12	Formulation and evaluation of surface-fluorinated microsized-TiO ₂ based self-cleaning cement: characterization, self-cleaning, depollution and antimicrobial study. <i>Chemical Papers</i> , 2022, 76, 3201-3214.	2.2	6
13	Silver nanoparticles from <i>Tabernaemontana divaricate</i> leaf extract: mechanism of action and bio-application for photo degradation of 4-aminopyridine. <i>Environmental Science and Pollution Research</i> , 2023, 30, 24856-24875.	5.3	5
14	Synthesis and Characterization of CeO ₂ , Gr and rGO Nanocomposites at Different Temperature. <i>Jom</i> , 2022, 74, 1828-1839.	1.9	4
15	Degradation of 4-aminopyridine using bio-mediated Ag-doped Cu ₂ O nanoparticles under visible light. <i>Nanotechnology for Environmental Engineering</i> , 2022, 7, 415-423.	3.3	2
16	Comparative study using advanced oxidation processes for the degradation of model dyes mixture: Reaction kinetics and biodegradability assay. <i>Materials Today: Proceedings</i> , 2022, 57, 1533-1538.	1.8	2
17	Bioremediation of greywater using a novel bacterial–fungal consortium: optimization and validation of the operating parameters <i>in vitro</i> . <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 2430-2442.	2.2	1
18	Hydrodynamic Study of Power-Law Fluids across Unconfined Semi-Circular Cylinder at Low Reynolds Numbers: Effect of Orientation angle. , 0, , .		0