

# Ajay Bansal

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

720  
citations

623734

14  
h-index

642732

23  
g-index

50  
all docs

50  
docs citations

50  
times ranked

836  
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated approach to remove Cr(VI) using immobilized <i>Chlorella minutissima</i> grown in nutrient rich sewage wastewater. <i>Bioresource Technology</i> , 2012, 104, 257-265.	9.6	65
2	Photocatalytic degradation of azo dye Orange II in aqueous solutions using copper-impregnated titania. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 1265-1274.	3.5	51
3	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
4	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
5	Excess sludge disruption and pollutant removal from tannery effluent by upgraded activated sludge system. <i>Bioresource Technology</i> , 2018, 263, 613-624.	9.6	29
6	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
7	Photocatalytic degradation of imidacloprid using semiconductor hybrid nano-catalyst: kinetics, surface reactions and degradation pathways. <i>International Journal of Environmental Science and Technology</i> , 2021, 18, 1425-1442.	3.5	27
8	Hydrothermal Growth of ZnO Nanorods for Use in Dye-Sensitized Solar Cells. <i>ACS Applied Nano Materials</i> , 2021, 4, 6212-6222.	5.0	26
9	Role of chenodeoxycholic acid as co-additive in improving the efficiency of DSSCs. <i>Solar Energy</i> , 2020, 196, 589-596.	6.1	25
10	Eliminating pesticide quinalphos from surface waters using synthesized GO-ZnO nanoflowers: Characterization, degradation pathways and kinetic study. <i>Chemosphere</i> , 2022, 286, 131837.	8.2	24
11	Flow Regime Transition in a Trickle Bed Reactor. <i>Chemical Engineering Communications</i> , 2005, 192, 1046-1066.	2.6	20
12	Characterization, activity and process optimization with a biomass-based thermal power plant's fly ash as a potential catalyst for biodiesel production. <i>RSC Advances</i> , 2015, 5, 9946-9954.	3.6	20
13	Formulation of SrO-MBCUS Agglomerates for Esterification and Transesterification of High FFA Vegetable Oil. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2016, 11, 140-150.	1.1	20
14	Minimization of excess bio-sludge and pollution load in oxic-settling-anaerobic modified activated sludge treatment for tannery wastewater. <i>Journal of Cleaner Production</i> , 2020, 243, 118492.	9.3	18
15	Biotechnological exploitation of cyanobacteria and microalgae for bioactive compounds. , 2020, , 221-259.		18
16	Simultaneous sludge minimization, pollutant and nitrogen removal using integrated MBBR configuration for tannery wastewater treatment. <i>Bioresource Technology</i> , 2021, 341, 125748.	9.6	18
17	Degradation mechanism, reaction pathways and kinetics for the mineralization of Bisphenol A using hybrid ZnO/graphene oxide nano-catalysts. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 485-497.	2.7	17
18	Shear rate and mass transfer coefficient in internal loop airlift reactors involving non-Newtonian fluids. <i>Chemical Engineering Research and Design</i> , 2018, 136, 315-323.	5.6	14

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19	Characterization and performance evaluation of synthesized ZnO nanoflowers, nanorods, and their hybrid nanocomposites with graphene oxide for degradation of Orange G. <i>Environmental Science and Pollution Research</i> , 2021, 28, 57009-57029.	5.3	14
20	CFD modeling of hydrodynamics and mass transfer of Rhodamine B in annular reactor. <i>Heat and Mass Transfer</i> , 2012, 48, 2069-2077.	2.1	13
21	A Comparative Study of Immobilization Techniques for Photocatalytic Degradation of Rhodamine B using Nanoparticles of Titanium Dioxide. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	13
22	Performance Assessment of Gravel-Tire Chips Mixes as Drainage Layer Materials Using Real Active MSW Landfill Leachate. <i>Geotechnical and Geological Engineering</i> , 2015, 33, 1081-1098.	1.7	13
23	RTD IN TRICKLE BED REACTORS: EXPERIMENTAL STUDY. <i>Chemical Engineering Communications</i> , 2007, 194, 1503-1515.	2.6	12
24	Performance of Scrap Tire Shreds as a Potential Leachate Collection Medium. <i>Geotechnical and Geological Engineering</i> , 2010, 28, 661-669.	1.7	11
25	Potential of different white rot fungi to decolourize textile azo dyes in the absence of external carbon source. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 887-896.	2.2	11
26	Investigation of activated sludge characteristics and their influence on simultaneous sludge minimization and nitrogen removal from an advanced biological treatment for tannery wastewater. <i>Environmental Technology and Innovation</i> , 2021, 24, 102013.	6.1	11
27	TWO-PHASE PRESSURE DROP IN A TRICKLE BED REACTOR INVOLVING NEWTONIAN/NON-NEWTONIAN LIQUID PHASE. <i>Chemical Engineering Communications</i> , 2008, 195, 1085-1106.	2.6	10
28	Effect of Bed Configuration on Dispersion in a Packed-Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 9525-9528.	3.7	10
29	Drainage Performance of Different Sizes Tire Chips used Alone and Mixed with Natural Aggregates as Leachate Drainage Layer Material. <i>Geotechnical and Geological Engineering</i> , 2016, 34, 167-191.	1.7	10
30	Nano-Photocatalysts in the Treatment of Colored Wastewater - A Review. <i>Materials Science Forum</i> , 0, 734, 349-363.	0.3	9
31	Synthesis of g-C <sub>3</sub> N <sub>4</sub> /ZnO nanocomposite for photocatalytic degradation of a refractory organic endocrine disrupter. <i>Materials Today: Proceedings</i> , 2021, 44, 855-859.	1.8	9
32	Dynamic Liquid Saturation in a Trickle Bed Reactor Involving Newtonian/non-Newtonian Liquid Phase. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 3341-3350.	3.7	8
33	Photocatalytic Activity of Transition Metal Ion Doped Titania for Amaranth Dye Degradation. <i>Materials Science Forum</i> , 0, 712, 85-104.	0.3	7
34	Effect of extracellular polymeric compositions on in-situ sludge minimization performance of upgraded activated sludge treatment for industrial wastewater. <i>Journal of Environmental Management</i> , 2022, 306, 114516.	7.8	7
35	Comparative Studies on Uptake of Wastewater Nutrients by Immobilized Cells of <i>Chlorella minutissima</i> and Dairy Waste Isolated Algae. <i>Indian Chemical Engineer</i> , 2011, 53, 211-219.	1.5	6
36	Performance of tire chips-gravel combinations with nonwoven geotextile and encapsulated tire chips layers used as filter/separator under incremental stress levels. <i>European Journal of Environmental and Civil Engineering</i> , 2018, 22, 1291-1324.	2.1	6

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37	Effect of Surface Tension on Hydrodynamics and Mass Transfer Coefficient in Airlift Reactors. Chemical Engineering and Technology, 2020, 43, 995-1004.	1.5	6
38	Surface Modification, Characterization and Photocatalytic Performance of Nano-Sized Titania Modified with Silver and Bentonite Clay. Bulletin of Chemical Reaction Engineering and Catalysis, 2009, 4, 43-53.	1.1	5
39	Performance assessment of tire chips as gravel mixes as leachate drainage layer material. International Journal of Geotechnical Engineering, 2015, 9, 453-470.	2.0	5
40	Utilization of Renewable and Waste Materials for Biodiesel Production as Catalyst. Bulletin of Chemical Reaction Engineering and Catalysis, 2015, 10, .	1.1	5
41	Influence of RhB dye concentration on ZnS nanoflowers decorated TiO <sub>2</sub> photoanode in dye sensitized solar cell. Materials Today: Proceedings, 2021, 44, 1163-1168.	1.8	5
42	Degradation of acidic Orange G dye using UV-H <sub>2</sub> O <sub>2</sub> in batch photoreactor. International Journal of Biological and Chemical Sciences, 2009, 3, .	0.2	4
43	Axial dispersion in packed bed reactors involving viscoelastic and viscoelastic non-Newtonian fluids. Bioprocess and Biosystems Engineering, 2013, 36, 1011-1018.	3.4	4
44	Hydrodynamic Studies on a Trickle Bed Reactor for Foaming Liquids. Bulletin of Chemical Reaction Engineering and Catalysis, 2010, 5, .	1.1	2
45	Synthesis of rGO/TiO <sub>2</sub> Nanocomposite for the Efficient Photocatalytic Degradation of RhB Dye. Lecture Notes in Civil Engineering, 2019, , 265-280.	0.4	2
46	Modeling of Trickle Bed Reactors Involving Beds of Different Configurations under Low and High Interaction Regimes. Industrial & Engineering Chemistry Research, 2007, 46, 677-683.	3.7	1
47	Quantifying Effect of Surface Tension and Viscosity on Dispersion in Packed Bed Reactors. Indian Chemical Engineer, 2012, 54, 180-189.	1.5	1
48	Minimization of Bio-sludge from Tannery Effluent Using Anoxic Modified Conventional Activated Sludge Process. Lecture Notes in Civil Engineering, 2019, , 93-104.	0.4	1
49	Degradation of <i>Acid Red 27</i> in Sunlight Using TiO <sub>2</sub> . Materials Science Forum, 0, 734, 317-324.	0.3	0
50	APPLICATION OF NEURAL NETWORK FOR ESTIMATING PROPERTIES OF DIESEL BIODIESEL BLENDS. International Journal of Computers and Applications, 2010, 32, .	1.3	0