

Ashok Kumar Gupta

List of Publications by Year in descending order

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41
papers

2,277
citations

304743

22
h-index

276875

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42
all docs

42
docs citations

42
times ranked

1384
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances on the removal of dyes from wastewater using various adsorbents: a critical review. <i>Materials Advances</i> , 2021, 2, 4497-4531.	5.4	421
2	Pharmaceutically active compounds in aqueous environment: A status, toxicity and insights of remediation. <i>Environmental Research</i> , 2019, 176, 108542.	7.5	167
3	A review on hospital wastewater treatment: A special emphasis on occurrence and removal of pharmaceutically active compounds, resistant microorganisms, and SARS-CoV-2. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104812.	6.7	139
4	Emerging contaminants in wastewater: A critical review on occurrence, existing legislations, risk assessment, and sustainable treatment alternatives. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105966.	6.7	123
5	A review on performance of constructed wetlands in tropical and cold climate: Insights of mechanism, role of influencing factors, and system modification in low temperature. <i>Science of the Total Environment</i> , 2021, 755, 142540.	8.0	118
6	A review on treatment of petroleum refinery and petrochemical plant wastewater: A special emphasis on constructed wetlands. <i>Journal of Environmental Management</i> , 2020, 272, 111057.	7.8	113
7	A review of leakage detection strategies for pressurised pipeline in steady-state. <i>Engineering Failure Analysis</i> , 2020, 109, 104264.	4.0	110
8	Fluoride and human health: Systematic appraisal of sources, exposures, metabolism, and toxicity. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 1116-1193.	12.8	94
9	A review on occurrences, eco-toxic effects, and remediation of emerging contaminants from wastewater: Special emphasis on biological treatment based hybrid systems. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105282.	6.7	83
10	Treatment of saline wastewater using physicochemical, biological, and hybrid processes: Insights into inhibition mechanisms, treatment efficiencies and performance enhancement. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105775.	6.7	77
11	Hollow Polyaniline Microsphere/Fe ₃ O ₄ Nanocomposite as an Effective Adsorbent for Removal of Arsenic from Water. <i>Scientific Reports</i> , 2020, 10, 4982.	3.3	75
12	Status and management of arsenic pollution in groundwater: A comprehensive appraisal of recent global scenario, human health impacts, sustainable field-scale treatment technologies. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105203.	6.7	73
13	A comprehensive review on the synthesis, performance, modifications, and regeneration of activated carbon for the adsorptive removal of various water pollutants. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106177.	6.7	58
14	Photo-induced degradation of bio-toxic Ciprofloxacin using the porous 3D hybrid architecture of an atomically thin sulfur-doped g-C ₃ N ₄ /ZnO nanosheet. <i>Environmental Research</i> , 2020, 183, 109154.	7.5	56
15	A systematic review of moving bed biofilm reactor, membrane bioreactor, and moving bed membrane bioreactor for wastewater treatment: Comparison of research trends, removal mechanisms, and performance. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106112.	6.7	52
16	A multivariate modeling and experimental realization of photocatalytic system of engineered Sâ€“C ₃ N ₄ /ZnO hybrid for ciprofloxacin removal: Influencing factors and degradation pathways. <i>Environmental Research</i> , 2021, 196, 110390.	7.5	51
17	An assessment of hospital wastewater and biomedical waste generation, existing legislations, risk assessment, treatment processes, and scenario during COVID-19. <i>Journal of Environmental Management</i> , 2022, 308, 114609.	7.8	47
18	Lanthanum ions decorated 2-dimensional g-C ₃ N ₄ for ciprofloxacin photodegradation. <i>Chemosphere</i> , 2021, 268, 128780.	8.2	41

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19	Photocatalytic performance of 3D engineered chitosan hydrogels embedded with sulfur-doped C3N4/ZnO nanoparticles for Ciprofloxacin removal: Degradation and mechanistic pathways. <i>International Journal of Biological Macromolecules</i> , 2022, 198, 87-100.	7.5	39
20	Enhanced photocatalytic degradation of 17 β -estradiol by polythiophene modified Al-doped ZnO: Optimization of synthesis parameters using multivariate optimization techniques. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104463.	6.7	36
21	Hollow Polyaniline Microsphere/MnO ₂ /Fe ₃ O ₄ Nanocomposites in Adsorptive Removal of Toxic Dyes from Contaminated Water. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54324-54338.	8.0	32
22	Enhancement of wastewater treatment performance using 3D printed structures: A major focus on material composition, performance, challenges, and sustainable assessment. <i>Journal of Environmental Management</i> , 2022, 306, 114461.	7.8	25
23	Predicting the trend and utility of different photocatalysts for degradation of pharmaceutically active compounds: A special emphasis on photocatalytic materials, modifications, and performance comparison. <i>Journal of Environmental Management</i> , 2021, 293, 112858.	7.8	23
24	Polypyrrole-polyaniline copolymer coated green rice husk ash as an effective adsorbent for the removal of hexavalent chromium from contaminated water. <i>Materials Advances</i> , 2021, 2, 2431-2443.	5.4	22
25	Advancements of sequencing batch reactor for industrial wastewater treatment: Major focus on modifications, critical operational parameters, and future perspectives. <i>Journal of Environmental Management</i> , 2022, 317, 115305.	7.8	22
26	Development of a schwartzite-based moving bed 3D printed water treatment system for nanoplastic remediation. <i>RSC Advances</i> , 2021, 11, 19788-19796.	3.6	21
27	Recent advances in application of moving bed biofilm reactor for wastewater treatment: Insights into critical operational parameters, modifications, field-scale performance, and sustainable aspects. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107742.	6.7	21
28	3D Printed Materials in Water Treatment Applications. <i>Advanced Sustainable Systems</i> , 2022, 6, .	5.3	18
29	Insights into kinetics of photocatalytic degradation of neurotoxic carbamazepine using magnetically separable mesoporous Fe ₃ O ₄ modified Al-doped ZnO: Delineating the degradation pathway, toxicity analysis and application in real hospital wastewater. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129250.	4.7	16
30	Kinetic modeling of the photocatalytic degradation of 17- β estradiol using polythiophene modified Al-doped ZnO: Influence of operating parameters, interfering ions, and estimation of the degradation pathways. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106496.	6.7	14
31	A review on the management of arsenic-laden spent adsorbent: Insights of global practices, process criticality, and sustainable solutions. <i>Environmental Technology and Innovation</i> , 2022, 27, 102500.	6.1	14
32	A review on the treatment of septage and faecal sludge management: A special emphasis on constructed wetlands. <i>Journal of Environmental Management</i> , 2022, 315, 115143.	7.8	13
33	Performance indicators-based energy sustainability in urban water distribution networks: A state-of-art review and conceptual framework. <i>Sustainable Cities and Society</i> , 2021, 72, 103036.	10.4	12
34	Modeling defluoridation of real-life groundwater by a green adsorbent aluminum/olivine composite: Isotherm, kinetics, thermodynamics and novel framework based on artificial neural network and support vector machine. <i>Journal of Environmental Management</i> , 2022, 302, 113965.	7.8	10
35	Modeling and analysis of adsorptive removal of arsenite by Mg-Fe (CO ₃) layer double hydroxide with its application in real-life groundwater. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 1318-1336.	1.7	9
36	Remediation of carcinogenic arsenic by pyroaurite-based green adsorbent: isotherm, kinetic, mechanistic study, and applicability in real-life groundwater. <i>Environmental Science and Pollution Research</i> , 2020, 27, 24982-24998.	5.3	9

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37	Synthesis, optimization and characterization of mesoporous Mg-Al-Fe tri-metal nanocomposite targeting defluoridation: Synergistic interaction of molar ratio and thermal activation. Journal of Molecular Liquids, 2018, 268, 376-385.	4.9	5
38	Sediment deposition and distribution modelling in reservoirs: current trends and prospects. Water Management, 2020, 173, 172-188.	1.2	5
39	Hydraulic performance benchmarking for effective management of water distribution networks: An innovative composite index-based approach. Journal of Environmental Management, 2021, 299, 113603.	7.8	5
40	Exploring the key facets of leakage dynamics in water distribution networks: Experimental verification, hydraulic modeling, and sensitivity analysis. Journal of Cleaner Production, 2022, 362, 132236.	9.3	5
41	Effect of coexisting ions on adsorptive removal of arsenate by Mg-Fe-(CO ₃) LDH: multi-component adsorption and ANN-based multivariate modeling. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2021, 56, 572-584.	1.7	3