Ashok Kumar Gupta

List of Publications by Year
in descending order

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41	2,277	304368	276539
papers	citations	22 h-index	41 g-index

42	42	42	1384
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advances on the removal of dyes from wastewater using various adsorbents: a critical review. Materials Advances, 2021, 2, 4497-4531.	2.6	421
2	Pharmaceutically active compounds in aqueous environment: A status, toxicity and insights of remediation. Environmental Research, 2019, 176, 108542.	3.7	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. Journal of Environmental Chemical Engineering, 2021, 9, 104812.	3.3	139
4	Emerging contaminants in wastewater: A critical review on occurrence, existing legislations, risk assessment, and sustainable treatment alternatives. Journal of Environmental Chemical Engineering, 2021, 9, 105966.	3.3	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. Science of the Total Environment, 2021, 755, 142540.	3.9	118
6	A review on treatment of petroleum refinery and petrochemical plant wastewater: A special emphasis on constructed wetlands. Journal of Environmental Management, 2020, 272, 111057.	3.8	113
7	A review of leakage detection strategies for pressurised pipeline in steady-state. Engineering Failure Analysis, 2020, 109, 104264.	1.8	110
8	Fluoride and human health: Systematic appraisal of sources, exposures, metabolism, and toxicity. Critical Reviews in Environmental Science and Technology, 2020, 50, 1116-1193.	6.6	94
9	A review on occurrences, eco-toxic effects, and remediation of emerging contaminants from wastewater: Special emphasis on biological treatment based hybrid systems. Journal of Environmental Chemical Engineering, 2021, 9, 105282.	3.3	83
10	Treatment of saline wastewater using physicochemical, biological, and hybrid processes: Insights into inhibition mechanisms, treatment efficiencies and performance enhancement. Journal of Environmental Chemical Engineering, 2021, 9, 105775.	3.3	77
11	Hollow Polyaniline Microsphere/Fe3O4 Nanocomposite as an Effective Adsorbent for Removal of Arsenic from Water. Scientific Reports, 2020, 10, 4982.	1.6	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. Journal of Environmental Chemical Engineering, 2021, 9, 105203.	3.3	73
13	A comprehensive review on the synthesis, performance, modifications, and regeneration of activated carbon for the adsorptive removal of various water pollutants. Journal of Environmental Chemical Engineering, 2021, 9, 106177.	3.3	58
14	Photo-induced degradation of bio-toxic Ciprofloxacin using the porous 3D hybrid architecture of an atomically thin sulfur-doped g-C3N4/ZnO nanosheet. Environmental Research, 2020, 183, 109154.	3.7	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. Journal of Environmental Chemical Engineering, 2021, 9, 106112.	3.3	52
16	A multivariate modeling and experimental realization of photocatalytic system of engineered Sâ€“C3N4/ZnO hybrid for ciprofloxacin removal: Influencing factors and degradation pathways. Environmental Research, 2021, 196, 110390.	3.7	51
17	An assessment of hospital wastewater and biomedical waste generation, existing legislations, risk assessment, treatment processes, and scenario during COVID-19. Journal of Environmental Management, 2022, 308, 114609.	3.8	47
18	Lanthanum ions decorated 2-dimensional g-C3N4 for ciprofloxacin photodegradation. Chemosphere, 2021, 268, 128780.	4.2	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. International Journal of Biological Macromolecules, 2022, 198, 87-100.	3.6	39
20	Enhanced photocatalytic degradation of 17Î²-estradiol by polythiophene modified Al-doped ZnO: Optimization of synthesis parameters using multivariate optimization techniques. Journal of Environmental Chemical Engineering, 2020, 8, 104463.	3.3	36
21	Hollow Polyaniline Microsphere/MnO₂/Fe₃O₄ Nanocomposites in Adsorptive Removal of Toxic Dyes from Contaminated Water. ACS Applied Materials & Interfaces, 2021, 13, 54324-54338.	4.0	32
22	Enhancement of wastewater treatment performance using 3D printed structures: A major focus on material composition, performance, challenges, and sustainable assessment. Journal of Environmental Management, 2022, 306, 114461.	3.8	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. Journal of Environmental Management, 2021, 293, 112858.	3.8	23
24	Polypyrroleâ€“polyaniline copolymer coated green rice husk ash as an effective adsorbent for the removal of hexavalent chromium from contaminated water. Materials Advances, 2021, 2, 2431-2443.	2.6	22
25	Advancements of sequencing batch reactor for industrial wastewater treatment: Major focus on modifications, critical operational parameters, and future perspectives. Journal of Environmental Management, 2022, 317, 115305.	3.8	22
26	Development of a schwarzite-based moving bed 3D printed water treatment system for nanoplastic remediation. RSC Advances, 2021, 11, 19788-19796.	1.7	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. Journal of Environmental Chemical Engineering, 2022, 10, 107742.	3.3	21
28	3D Printed Materials in Water Treatment Applications. Advanced Sustainable Systems, 2022, 6, .	2.7	18
29	Insights into kinetics of photocatalytic degradation of neurotoxic carbamazepine using magnetically separable mesoporous Fe3O4 modified Al-doped ZnO: Delineating the degradation pathway, toxicity analysis and application in real hospital wastewater. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129250.	2.3	16
30	Kinetic modeling of the photocatalytic degradation of 17-Î² estradiol using polythiophene modified Al-doped ZnO: Influence of operating parameters, interfering ions, and estimation of the degradation pathways. Journal of Environmental Chemical Engineering, 2021, 9, 106496.	3.3	14
31	A review on the management of arsenic-laden spent adsorbent: Insights of global practices, process criticality, and sustainable solutions. Environmental Technology and Innovation, 2022, 27, 102500.	3.0	14
32	A review on the treatment of septage and faecal sludge management: A special emphasis on constructed wetlands. Journal of Environmental Management, 2022, 315, 115143.	3.8	13
33	Performance indicators-based energy sustainability in urban water distribution networks: A state-of-art review and conceptual framework. Sustainable Cities and Society, 2021, 72, 103036.	5.1	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. Journal of Environmental Management, 2022, 302, 113965.	3.8	10
35	Modeling and analysis of adsorptive removal of arsenite by Mgâ€“Feâ€“(CO₃) layer double hydroxide with its application in real-life groundwater. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 1318-1336.	0.9	9
36	Remediation of carcinogenic arsenic by pyroaurite-based green adsorbent: isotherm, kinetic, mechanistic study, and applicability in real-life groundwater. Environmental Science and Pollution Research, 2020, 27, 24982-24998.	2.7	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.	2.3	5
38	Sediment deposition and distribution modelling in reservoirs: current trends and prospects. Water Management, 2020, 173, 172-188.	0.4	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.	3.8	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.	4.6	5
41	Effect of coexisting ions on adsorptive removal of arsenate by Mg-Fe-(CO₃) 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.	0.9	3