

# Ashok Kumar Gupta

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11687561/publications.pdf>

Version: 2024-02-01

41  
papers

2,277  
citations

304368

22  
h-index

276539

41  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1384  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | 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.   | 3.8 | 10        |
| 2  | Photocatalytic performance of 3D engineered chitosan hydrogels embedded with sulfur-doped C <sub>3</sub> N <sub>4</sub> /ZnO nanoparticles for Ciprofloxacin removal: Degradation and mechanistic pathways. <i>International Journal of Biological Macromolecules</i> , 2022, 198, 87-100.  | 3.6 | 39        |
| 3  | 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.  | 3.8 | 25        |
| 4  | 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.  | 3.8 | 47        |
| 5  | 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.   | 3.0 | 14        |
| 6  | 3D Printed Materials in Water Treatment Applications. <i>Advanced Sustainable Systems</i> , 2022, 6, .  | 2.7 | 18        |
| 7  | 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.   | 3.3 | 21        |
| 8  | 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.  | 3.8 | 13        |
| 9  | Exploring the key facets of leakage dynamics in water distribution networks: Experimental verification, hydraulic modeling, and sensitivity analysis. <i>Journal of Cleaner Production</i> , 2022, 362, 132236.   | 4.6 | 5         |
| 10 | 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.   | 3.8 | 22        |
| 11 | Insights into kinetics of photocatalytic degradation of neurotoxic carbamazepine using magnetically separable mesoporous Fe <sub>3</sub> O <sub>4</sub> 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. | 2.3 | 16        |
| 12 | 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.  | 3.9 | 118       |
| 13 | 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.   | 3.3 | 139       |
| 14 | A multivariate modeling and experimental realization of photocatalytic system of engineered Sâ€“C <sub>3</sub> N <sub>4</sub> /ZnO hybrid for ciprofloxacin removal: Influencing factors and degradation pathways. <i>Environmental Research</i> , 2021, 196, 110390.   | 3.7 | 51        |
| 15 | Lanthanum ions decorated 2-dimensional g-C <sub>3</sub> N <sub>4</sub> for ciprofloxacin photodegradation. <i>Chemosphere</i> , 2021, 268, 128780.  | 4.2 | 41        |
| 16 | Recent advances on the removal of dyes from wastewater using various adsorbents: a critical review. <i>Materials Advances</i> , 2021, 2, 4497-4531.   | 2.6 | 421       |
| 17 | Effect of coexisting ions on adsorptive removal of arsenate by Mg-Fe-(CO <sub>3</sub> ) <sub>2</sub> LDH: multi-component adsorption and ANN-based multivariate modeling. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021, 56, 572-584.   | 0.9 | 3         |
| 18 | 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.   | 3.3 | 73        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 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.  | 3.3 | 83        |
| 20 | 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.  | 3.3 | 77        |
| 21 | 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.                   | 3.8 | 23        |
| 22 | 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.  | 5.1 | 12        |
| 23 | 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.                | 3.3 | 52        |
| 24 | 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.   | 3.3 | 58        |
| 25 | 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.   | 3.3 | 123       |
| 26 | Hydraulic performance benchmarking for effective management of water distribution networks: An innovative composite index-based approach. <i>Journal of Environmental Management</i> , 2021, 299, 113603.   | 3.8 | 5         |
| 27 | 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.  | 2.6 | 22        |
| 28 | Development of a schwarzite-based moving bed 3D printed water treatment system for nanoplastic remediation. <i>RSC Advances</i> , 2021, 11, 19788-19796.  | 1.7 | 21        |
| 29 | Kinetic modeling of the photocatalytic degradation of 17- $\beta$ 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. | 3.3 | 14        |
| 30 | Hollow Polyaniline Microsphere/MnO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> Nanocomposites in Adsorptive Removal of Toxic Dyes from Contaminated Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 54324-54338.  | 4.0 | 32        |
| 31 | 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.   | 6.6 | 94        |
| 32 | A review of leakage detection strategies for pressurised pipeline in steady-state. <i>Engineering Failure Analysis</i> , 2020, 109, 104264.   | 1.8 | 110       |
| 33 | Sediment deposition and distribution modelling in reservoirs: current trends and prospects. <i>Water Management</i> , 2020, 173, 172-188.   | 0.4 | 5         |
| 34 | 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.   | 3.8 | 113       |
| 35 | Enhanced photocatalytic degradation of 17 $\beta$ -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.                                   | 3.3 | 36        |
| 36 | Hollow Polyaniline Microsphere/Fe <sub>3</sub> O <sub>4</sub> Nanocomposite as an Effective Adsorbent for Removal of Arsenic from Water. <i>Scientific Reports</i> , 2020, 10, 4982.  | 1.6 | 75        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Photo-induced degradation of bio-toxic Ciprofloxacin using the porous 3D hybrid architecture of an atomically thin sulfur-doped g-C <sub>3</sub> N <sub>4</sub> /ZnO nanosheet. Environmental Research, 2020, 183, 109154.  | 3.7 | 56        |
| 38 | 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         |
| 39 | Modeling and analysis of adsorptive removal of arsenite by Mg-Fe (CO <sub>3</sub> ) 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         |
| 40 | Pharmaceutically active compounds in aqueous environment: A status, toxicity and insights of remediation. Environmental Research, 2019, 176, 108542.  | 3.7 | 167       |
| 41 | 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         |