

Shreshivadasan Chelliapan

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

2,640
citations

185998

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205818

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87
docs citations

87
times ranked

2716
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Performance of an up-flow anaerobic stage reactor (UASR) in the treatment of pharmaceutical wastewater containing macrolide antibiotics. <i>Water Research</i> , 2006, 40, 507-516. | 5.3 | 219 |
| 2 | The diverse applications of water hyacinth with main focus on sustainable energy and production for new era: An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 943-954. | 8.2 | 138 |
| 3 | A review of electrocoagulation technology for the treatment of textile wastewater. <i>Reviews in Chemical Engineering</i> , 2017, 33, . | 2.3 | 117 |
| 4 | Livestock wastewater treatment using aerobic granular sludge. <i>Bioresource Technology</i> , 2013, 133, 630-634. | 4.8 | 100 |
| 5 | Current technologies for recovery of metals from industrial wastes: An overview. <i>Environmental Technology and Innovation</i> , 2021, 22, 101525. | 3.0 | 91 |
| 6 | Treatment of Wastewater Using Seaweed: A Review. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2851. | 1.2 | 89 |
| 7 | Phyco-synthesis of Silver Nanoparticles Mediated from Marine Algae <i>Sargassum myricostum</i> and Its Potential Biological and Environmental Applications. <i>Waste and Biomass Valorization</i> , 2020, 11, 5255-5271. | 1.8 | 89 |
| 8 | Review on fermentative biohydrogen production from water hyacinth, wheat straw and rice straw with focus on recent perspectives. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20955-20969. | 3.8 | 79 |
| 9 | Influence of organic loading on the performance and microbial community structure of an anaerobic stage reactor treating pharmaceutical wastewater. <i>Desalination</i> , 2011, 271, 257-264. | 4.0 | 76 |
| 10 | Effect of COVID-19 virus on reducing GHG emission and increasing energy generated by renewable energy sources: A brief study in Malaysian context. <i>Environmental Technology and Innovation</i> , 2020, 20, 101151. | 3.0 | 68 |
| 11 | Optimization of aluminium recovery from water treatment sludge using Response Surface Methodology. <i>Journal of Environmental Management</i> , 2018, 228, 13-19. | 3.8 | 65 |
| 12 | Accelerated two-stage bioprocess for hydrogen and methane production from palm oil mill effluent using continuous stirred tank reactor and microbial electrolysis cell. <i>Journal of Cleaner Production</i> , 2019, 229, 84-93. | 4.6 | 64 |
| 13 | Prediction and Optimization of the Fenton Process for the Treatment of Landfill Leachate Using an Artificial Neural Network. <i>Water (Switzerland)</i> , 2018, 10, 595. | 1.2 | 63 |
| 14 | Electrocoagulation using a rotated anode: A novel reactor design for textile wastewater treatment. <i>Journal of Environmental Management</i> , 2016, 176, 34-44. | 3.8 | 60 |
| 15 | Fabrication of nanocomposites mediated from aluminium nanoparticles/ <i>Moringa oleifera</i> gum activated carbon for effective photocatalytic removal of nitrate and phosphate in aqueous solution. <i>Journal of Cleaner Production</i> , 2021, 281, 124553. | 4.6 | 60 |
| 16 | Improved production of lipid contents by cultivating <i>Chlorella pyrenoidosa</i> in heterogeneous organic substrates. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1969-1978. | 2.1 | 58 |
| 17 | Characteristics and performance of aerobic granular sludge treating rubber wastewater at different hydraulic retention time. <i>Bioresource Technology</i> , 2014, 161, 155-161. | 4.8 | 57 |
| 18 | Nano- from nature to nurture: A comprehensive review on facets, trends, perspectives and sustainability of nanotechnology in the food sector. <i>Energy</i> , 2022, 240, 122732. | 4.5 | 55 |

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|----|---|-----|-----------|
| 19 | Preparation, and structural of new NiS-SiO ₂ and Cr ₂ S ₃ -TiO ₂ nano-catalyst: Photocatalytic and antimicrobial studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 194, 128-134. | 1.7 | 54 |
| 20 | Cultivation of aerobic granular sludge for rubber wastewater treatment. <i>Bioresource Technology</i> , 2013, 129, 620-623. | 4.8 | 52 |
| 21 | Spotlighting graphene-based catalysts for the mitigation of environmentally hazardous pollutants to cleaner production: A review. <i>Journal of Cleaner Production</i> , 2022, 365, 132702. | 4.6 | 48 |
| 22 | Development of Bio-PORec [®] system for polyhydroxyalkanoates (PHA) production and its storage in mixed cultures of palm oil mill effluent (POME). <i>Bioresource Technology</i> , 2012, 124, 208-216. | 4.8 | 47 |
| 23 | Thermal comfort of various building layouts with a proposed discomfort index range for tropical climate. <i>Journal of Thermal Biology</i> , 2014, 41, 6-15. | 1.1 | 47 |
| 24 | Evaluation of Lemna minor and Chlamydomonas to treat palm oil mill effluent and fertilizer production. <i>Journal of Water Process Engineering</i> , 2017, 17, 229-236. | 2.6 | 45 |
| 25 | Sargassum myriocystum-mediated TiO ₂ -nanoparticles and their antimicrobial, larvicidal activities and enhanced photocatalytic degradation of various dyes. <i>Environmental Research</i> , 2022, 204, 112278. | 3.7 | 42 |
| 26 | Manganese disulfide-silicon dioxide nano-material: Synthesis, characterization, photocatalytic, antioxidant and antimicrobial studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 198, 111579. | 1.7 | 40 |
| 27 | Novel Z-scheme composite Ag ₂ CrO ₄ /NG/polyimide as high performance nano catalyst for photoreduction of CO ₂ : Design, fabrication, characterization and mechanism. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 368, 30-40. | 2.0 | 39 |
| 28 | Assessment of carbon footprint from transportation, electricity, water, and waste generation: towards utilisation of renewable energy sources. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 183-201. | 2.1 | 31 |
| 29 | OVERVIEW OF URBAN HEAT ISLAND (UHI) PHENOMENON TOWARDS HUMAN THERMAL COMFORT. <i>Environmental Engineering and Management Journal</i> , 2017, 16, 2097-2111. | 0.2 | 30 |
| 30 | Evaluation of Lipid Content in Microalgae Biomass Using Palm Oil Mill Effluent (Pome). <i>Jom</i> , 2017, 69, 1361-1367. | 0.9 | 29 |
| 31 | Electrocoagulation by solar energy feed for textile wastewater treatment including mechanism and hydrogen production using a novel reactor design with a rotating anode. <i>RSC Advances</i> , 2016, 6, 10192-10204. | 1.7 | 28 |
| 32 | Recent advances on the removal of phosphorus in aquatic plant-based systems. <i>Environmental Technology and Innovation</i> , 2021, 24, 101933. | 3.0 | 28 |
| 33 | Application of response surface method for Total organic carbon reduction in leachate treatment using Fenton process. <i>Environmental Technology and Innovation</i> , 2020, 19, 101009. | 3.0 | 25 |
| 34 | Carrier wave optimization for multi-level photovoltaic system to improvement of power quality in industrial environments based on Salp swarm algorithm. <i>Environmental Technology and Innovation</i> , 2021, 21, 101197. | 3.0 | 23 |
| 35 | Production and Characterization of a Novel Biosurfactant Molecule from Bacillus safensis YKS2 and Assessment of Its Efficiencies in Wastewater Treatment by a Directed Metagenomic Approach. <i>Sustainability</i> , 2022, 14, 2142. | 1.6 | 23 |
| 36 | Characterization of Phosphate-Free Detergent Powders Incorporated with Palm C16 Methyl Ester Sulfonate (C16MES) and Linear Alkyl Benzene Sulfonic Acid (LABSA). <i>Journal of Surfactants and Detergents</i> , 2014, 17, 871-880. | 1.0 | 22 |

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|----|--|-----|-----------|
| 37 | Modeling of wastewater quality in an urban area during festival and rainy days. <i>Water Science and Technology</i> , 2015, 72, 1029-1042. | 1.2 | 21 |
| 38 | An experimental investigation on phytoremediation performance of water lettuce (<i>Pistia</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 T 93, 1543-1553. | 1.3 | 21 |
| 39 | Tolerance of the antibiotic Tylosin on treatment performance of an Up-flow Anaerobic Stage Reactor (UASR). <i>Water Science and Technology</i> , 2011, 63, 1599-1606. | 1.2 | 20 |
| 40 | Detergency Stability and Particle Characterization of Phosphate-Free Spray Dried Detergent Powders Incorporated with Palm C16 Methyl Ester Sulfonate (C16MES). <i>Journal of Oleo Science</i> , 2014, 63, 585-592. | 0.6 | 18 |
| 41 | Development of ZnO/MOGAC nanocomposites for enhanced photocatalytic removal of PO ₄ ³⁻ and NO ₃ ⁻ ions from wastewater under various light irradiations. <i>Biomass Conversion and Biorefinery</i> , 0, 1. | 2.9 | 18 |
| 42 | Removing microplastics from wastewater using leading-edge treatment technologies: a solution to microplastic pollution—a review. <i>Bioprocess and Biosystems Engineering</i> , 2023, 46, 309-321. | 1.7 | 18 |
| 43 | Bioremediation potential of macroalgae <i>Gracilaria edulis</i> and <i>Gracilaria changii</i> co-cultured with shrimp wastewater in an outdoor water recirculation system. <i>Environmental Technology and Innovation</i> , 2020, 17, 100571. | 3.0 | 17 |
| 44 | Bioethanol production from lignocellulosic biomass (water hyacinth): a biofuel alternative. , 2020, , 123-143. | | 17 |
| 45 | The Content of Heavy Metals in Cigarettes and the Impact of Their Leachates on the Aquatic Ecosystem. <i>Sustainability</i> , 2022, 14, 4752. | 1.6 | 16 |
| 46 | Utilization of palm oil mill effluent for polyhydroxyalkanoate production and nutrient removal using statistical design. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 671-684. | 1.8 | 14 |
| 47 | Removal Rate of Organic Matter Using Natural Cellulose via Adsorption Isotherm and Kinetic Studies. <i>Water Environment Research</i> , 2016, 88, 118-130. | 1.3 | 13 |
| 48 | Wasted cockle shell (<i>Anadara granosa</i>) as a natural adsorbent for treating polluted river water in the fabricated column model (FCM). <i>Desalination and Water Treatment</i> , 2016, 57, 16395-16403. | 1.0 | 13 |
| 49 | Study of oil sorption behaviour of esterified oil palm empty fruit bunch (OPEFB) fibre and its kinetics and isotherm studies. <i>Environmental Technology and Innovation</i> , 2021, 22, 101397. | 3.0 | 13 |
| 50 | Bio-efficacy of imidazolinones in weed control in a tropical paddy soil amended with optimized agrowaste-derived biochars. <i>Chemosphere</i> , 2022, 303, 134957. | 4.2 | 13 |
| 51 | Impact of the herbicide (RS)-MCPP on an anaerobic membrane bioreactor performance under different COD/nitrate ratios. <i>Bioresource Technology</i> , 2012, 109, 31-37. | 4.8 | 12 |
| 52 | Efficiency of carbon sorbents in mitigating polar herbicides leaching from tropical soil. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 251-260. | 2.1 | 12 |
| 53 | Effect of organic loading rate (OLR) on the performance of modified anaerobic baffled reactor (MABR) supported by slanted baffles. , 0, 79, 56-63. | | 12 |
| 54 | Performance of an innovative multi-stage anaerobic reactor during start-up period. <i>African Journal of Biotechnology</i> , 2011, 10, 11294-11302. | 0.3 | 10 |

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|----|--|-----|-----------|
| 55 | Effect of Mecoprop (RS)-MCP on the biological treatment of synthetic wastewater in an anaerobic membrane bioreactor. <i>Bioresource Technology</i> , 2013, 133, 158-165. | 4.8 | 10 |
| 56 | Effect of organic loading rate on the performance of modified anaerobic baffled reactor treating landfill leachate containing heavy metals. <i>Materials Today: Proceedings</i> , 2021, 46, 1913-1921. | 0.9 | 10 |
| 57 | Influence of step increases in hydraulic retention time on (RS)-MCP degradation using an anaerobic membrane bioreactor. <i>Bioresource Technology</i> , 2011, 102, 9456-9461. | 4.8 | 9 |
| 58 | Exploring Malaysian Household Consumers Acceptance towards Eco-friendly Laundry Detergent Powders. <i>Asian Social Science</i> , 2015, 11, . | 0.1 | 9 |
| 59 | Effect of hydraulic retention time on up-flow anaerobic stage reactor performance at constant loading in the presence of antibiotic tylosin. <i>Brazilian Journal of Chemical Engineering</i> , 2011, 28, 51-61. | 0.7 | 8 |
| 60 | Effectiveness of <i>Eichhornia crassipes</i> in nutrient removal from domestic wastewater based on its optimal growth rate. <i>Desalination and Water Treatment</i> , 0, , 1-6. | 1.0 | 8 |
| 61 | Microalgal Biotechnology Application Towards Environmental Sustainability. , 2019, , 445-465. | | 8 |
| 62 | Landfill leachate treatment by an anaerobic process enhanced with recyclable uniform beads (RUB) of seaweed species of <i>Gracilaria</i> . , 0, 143, 208-216. | | 8 |
| 63 | The fate of imazapyr herbicide in the soil amended with carbon sorbents. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 7561-7569. | 2.9 | 7 |
| 64 | Treatment of landfill leachate using modified anaerobic baffled reactor. , 0, 183, 268-275. | | 7 |
| 65 | Elucidation and Characterization of New Chlorinated By-Products after Electrochemical Degradation of Hydrochlorothiazide Using Graphite-Poly Vinyl Chloride Electrode. <i>Catalysts</i> , 2018, 8, 540. | 1.6 | 6 |
| 66 | Removal of COD from landfill leachate by Predication and Evaluation of Multiple Linear Regression (MLR) Model and Fenton process. <i>Egyptian Journal of Chemistry</i> , 2019, . | 0.1 | 6 |
| 67 | The effects of aeration and mixotrophy by acetate and pyruvate on the growth parameters in <i>Scenedesmus obliquus</i> . <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4611-4620. | 2.9 | 6 |
| 68 | Treatment of Pharmaceutical Wastewater Containing Tylosin in an Anaerobic - Aerobic Reactor System. <i>Water Practice and Technology</i> , 2010, 5, . | 1.0 | 5 |
| 69 | Performance of an up-flow anaerobic sludge bed (UASB) reactor for treating landfill leachate containing heavy metals and formaldehyde. , 0, 86, 51-58. | | 5 |
| 70 | Does structural change boost the energy demand in a fossil fuel-driven economy? New evidence from Iran. <i>Energy</i> , 2022, 254, 124391. | 4.5 | 5 |
| 71 | Optimal Mixture Design of Mix-Wasted Tile Aggregates for Reducing Pavement Surface Temperature. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, 04014239. | 1.3 | 4 |
| 72 | Microalgae Cultivation Using Various Sources of Organic Substrate for High Lipid Content. <i>Green Energy and Technology</i> , 2019, , 893-898. | 0.4 | 4 |

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|----|--|-----|-----------|
| 73 | The Evolution of Green Shipping Practices Adoption in the International Maritime Industry. TEM Journal, 2021, , 1112-1121. | 0.4 | 4 |
| 74 | Treatment of textile wastewater using a novel electrocoagulation reactor design. Global Nest Journal, 2018, 20, 449-457. | 0.3 | 4 |
| 75 | Application of low-cost fabricated column model for the adsorption analysis of pollutants from river water using coconut coir. Desalination and Water Treatment, 0, , 1-10. | 1.0 | 3 |
| 76 | Impact of hydraulic retention time on the performance and archaea populations of an anaerobic reactor treating synthetic Tylosin wastewater. Desalination and Water Treatment, 2014, 52, 3647-3653. | 1.0 | 3 |
| 77 | Optimization of methane production process from synthetic glucose feed in a multi-stage anaerobic bioreactor. Desalination and Water Treatment, 2016, 57, 29168-29177. | 1.0 | 3 |
| 78 | Effect of effluent circulation and hydraulic retention time (HRT) on the performance of a modified anaerobic baffled reactor (MABR) during start-up period. Desalination and Water Treatment, 2016, 57, 18597-18605. | 1.0 | 3 |
| 79 | DEVELOPMENT OF AEROBIC GRANULES IN SEQUENCING BATCH REACTOR SYSTEM FOR TREATING HIGH TEMPERATURE DOMESTIC WASTEWATER. Jurnal Teknologi (Sciences and Engineering), 2019, 81, . | 0.3 | 3 |
| 80 | Effectiveness of Anaerobic Technologies in the Treatment of Landfill Leachate. , 0, , . | | 3 |
| 81 | Steam-Enhanced Extraction Experiments, Simulations and Field Studies for Dense Non-Aqueous Phase Liquid Removal: A Review. MATEC Web of Conferences, 2016, 47, 05012. | 0.1 | 2 |
| 82 | Development of an operational excellence framework for organisational performance improvement in the Sudanese aviation industry. Journal of Industrial Engineering and Management, 2021, 14, 681. | 1.0 | 1 |
| 83 | Qualitative methods to identify potential strains for partial degradation of oil palm mesocarp fibre. , 0, , 280-286. | | 1 |
| 84 | Design Requirements for the Treatment of Stormwater Contaminated with Jet Fuel Oil using Corrugated Plate Interceptor. Egyptian Journal of Chemistry, 2021, . | 0.1 | 0 |