

# Chinenye Adaobi Igwegbe

## List of Publications by Year in descending order

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74  
papers

2,568  
citations

172207

29  
h-index

214527

47  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1162  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Pistachio ( <i>Pistacia vera</i> ) waste as adsorbent for wastewater treatment: a review. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8793-8811.   | 2.9 | 24        |
| 2  | Competitive adsorption of heavy metals in a quaternary solution by sugarcane bagasse- LDPE hybrid biochar: equilibrium isotherm and kinetics modelling. <i>Chemical Product and Process Modeling</i> , 2023, 18, 231-246.                    | 0.5 | 6         |
| 3  | Assessment of health impacts attributed to PM10 exposure during 2015-2017 in Zabol City, Iran. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 4123-4136.   | 1.8 | 3         |
| 4  | Multi-layer perceptron artificial neural network (MLP-ANN) prediction of biomass higher heating value (HHV) using combined biomass proximate and ultimate analysis data. <i>Modeling Earth Systems and Environment</i> , 2022, 8, 3177-3191. | 1.9 | 7         |
| 5  | Zeolitic Imidazolate Frameworks (ZIFs) for aqueous phase adsorption - A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 34-48.   | 2.9 | 60        |
| 6  | The Anodising Industry Wastewater: Considerations of Its Treatment for Environmental Protection. <i>Water Conservation Science and Engineering</i> , 2022, 7, 65-76.   | 0.9 | 6         |
| 7  | A review of treatment technologies for the mitigation of the toxic environmental effects of acid mine drainage (AMD). <i>Chemical Engineering Research and Design</i> , 2022, 157, 37-58.  | 2.7 | 99        |
| 8  | Treatment technologies for bakers' yeast production wastewater. <i>Environmental Science and Pollution Research</i> , 2022, 29, 11004-11026.   | 2.7 | 24        |
| 9  | New generation adsorbents for the removal of fluoride from water and wastewater: A review. <i>Journal of Molecular Liquids</i> , 2022, 346, 118257.  | 2.3 | 44        |
| 10 | Recent Advances on the Aqueous Phase Adsorption of Carbamazepine. <i>ChemBioEng Reviews</i> , 2022, 9, 231-247.  | 2.6 | 17        |
| 11 | Computer-aided modeling of solid waste conversion: case study of maize ( <i>Zea mays</i> ) residues air gasification. , 2022, , 381-391.   |     | 0         |
| 12 | Modeling of grains sun drying: from theoretical methods to intelligent systems. , 2022, , 433-442.   |     | 0         |
| 13 | ANN prognostication and GA optimization of municipal solid waste leachate treatment using aluminum electrodes via electrocoagulation-flocculation method. , 2022, , 161-183.   |     | 2         |
| 14 | Enhanced Performance of Natural Polymer Coagulants for Dye Removal from Wastewater: Coagulation Kinetics, and Mathematical Modelling Approach. <i>Environmental Processes</i> , 2022, 9, 1.  | 1.7 | 10        |
| 15 | RSM and ANN modelling of the mechanical properties of self-compacting concrete with silica fume and plastic waste as partial constituent replacement. <i>Cleaner Materials</i> , 2022, 4, 100065.  | 1.9 | 15        |
| 16 | Modeling the Liquid-Phase Adsorption of Cephalexin onto Coated Iron Nanoparticles Using Response Surface and Molecular Modeling. <i>Adsorption Science and Technology</i> , 2022, 2022, .  | 1.5 | 3         |
| 17 | Flash pyrolysis of biomass: a review of recent advances. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 2349-2363.   | 2.1 | 34        |
| 18 | A review of pine-based adsorbents for the adsorption of dyes. , 2022, , 319-332.   |     | 9         |

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|----|--|-----|-----------|
| 19 | The utilization of rubber ( <i>Hevea brasiliensis</i> ) seed shells as adsorbent for water pollution remediation. , 2022, , 13-28.   |     | 0         |
| 20 | CuO nanoparticles as modifiers for membranes: A review of performance for water treatment. <i>Materials Today Communications</i> , 2022, 32, 103896.   | 0.9 | 4         |
| 21 | Recent advances in hydrochar application for the adsorptive removal of wastewater pollutants. <i>Chemical Engineering Research and Design</i> , 2022, 184, 419-456.  | 2.7 | 62        |
| 22 | Cost of adsorbent preparation and usage in wastewater treatment: A review. , 2022, 3, 100042.  |     | 63        |
| 23 | Adsorption of ciprofloxacin from water: A comprehensive review. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 93, 57-77.  | 2.9 | 199       |
| 24 | Artificial Neural Network Modeling of the Water Absorption Behavior of Plantain Peel and Bamboo Fibers Reinforced Polystyrene Composites. <i>Journal of Macromolecular Science - Physics</i> , 2021, 60, 472-484.                      | 0.4 | 32        |
| 25 | Kinetic Studies on Penicillin G Removal from Aqueous Environments by Cupric Oxide Nanoparticles. , 2021, 10, 86-96.  |     | 4         |
| 26 | A review of methods for the removal of penicillins from water. <i>Journal of Water Process Engineering</i> , 2021, 39, 101886.   | 2.6 | 57        |
| 27 | Adsorption of Acid Blue 92 Dye from Aqueous Solutions by Single-Walled Carbon Nanotubes: Isothermal, Kinetic, and Thermodynamic Studies. <i>Environmental Processes</i> , 2021, 8, 869-888.  | 1.7 | 95        |
| 28 | 3D reconstruction and morphological analysis of electrostimulated hyperthermophile biofilms of <i>Thermotoga neapolitana</i> . <i>Biotechnology Letters</i> , 2021, 43, 1303-1309.   | 1.1 | 10        |
| 29 | ANN modelling of the steam reforming of naphthalene based on non-stoichiometric thermodynamic analysis. <i>Chemical Papers</i> , 2021, 75, 3363-3372.  | 1.0 | 6         |
| 30 | Electrocoagulation-flocculation of aquaculture effluent using hybrid iron and aluminium electrodes: A comparative study. <i>Chemical Engineering Journal Advances</i> , 2021, 6, 100107.   | 2.4 | 41        |
| 31 | Comparative analysis on the electrochemical reduction of colour, COD and turbidity from municipal solid waste leachate using aluminium, iron and hybrid electrodes. <i>Sustainable Water Resources Management</i> , 2021, 7, 1.        | 1.0 | 21        |
| 32 | Adsorption of Congo red and malachite green using H <sub>3</sub> PO <sub>4</sub> and NaCl-modified activated carbon from rubber ( <i>Hevea brasiliensis</i> ) seed shells. <i>Sustainable Water Resources Management</i> , 2021, 7, 1. | 1.0 | 29        |
| 33 | Adsorption of doxycycline from aqueous media: A review. <i>Journal of Molecular Liquids</i> , 2021, 334, 116124.   | 2.3 | 67        |
| 34 | Coagulation-Flocculation of Aquaculture Wastewater Using Green Coagulant from <i>Garcinia kola</i> Seeds: Parametric Studies, Kinetic Modelling and Cost Analysis. <i>Sustainability</i> , 2021, 13, 9177.                             | 1.6 | 17        |
| 35 | An empirical literature analysis of adsorbent performance for methylene blue uptake from aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105658.  | 3.3 | 80        |
| 36 | Environmental protection by the adsorptive elimination of acetaminophen from water: A comprehensive review. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 104, 117-135.   | 2.9 | 43        |

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|----|--|-----|-----------|
| 37 | Sono electro-chemical synthesis of LaFeO <sub>3</sub> nanoparticles for the removal of fluoride: Optimization and modeling using RSM, ANN and GA tools. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105320.  | 3.3 | 73        |
| 38 | Removal of ibuprofen from aqueous media by adsorption: A comprehensive review. <i>Science of the Total Environment</i> , 2021, 780, 146608.  | 3.9 | 136       |
| 39 | Verification of pore size effect on aqueous-phase adsorption kinetics: A case study of methylene blue. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 127119.  | 2.3 | 75        |
| 40 | Sunflower-biomass derived adsorbents for toxic/heavy metals removal from (waste) water. <i>Journal of Molecular Liquids</i> , 2021, 342, 117540.   | 2.3 | 36        |
| 41 | Bio-coagulation-flocculation (BCF) of municipal solid waste leachate using <i>Picralima nitida</i> extract: RSM and ANN modelling. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100078.   | 2.9 | 43        |
| 42 | Adsorption of methyl orange: A review on adsorbent performance. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100179.  | 2.9 | 110       |
| 43 | ANN Modelling of the Adsorption of Herbicides and Pesticides Based on Sorbate-Sorbent Interphase. <i>Chemistry Africa</i> , 2021, 4, 443-449.  | 1.2 | 25        |
| 44 | Bio-coagulation-Flocculation of Land-Based Saline Aquaculture Effluent Using <i>Parkia biglobosa</i> Seeds. , 2021, , 315-334.   |     | 2         |
| 45 | Trends in the treatment of aquaculture effluents using nanotechnology. <i>Cleaner Materials</i> , 2021, 2, 100024.   | 1.9 | 15        |
| 46 | Regenerative desulphurisation of pyrolysis oil: A paradigm for the circular economy initiative. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106864.  | 3.3 | 27        |
| 47 | Praseodymium-doped cadmium tungstate (CdWO <sub>4</sub> ) nanoparticles for dye degradation with sonocatalytic process. <i>Polyhedron</i> , 2020, 190, 114792.   | 1.0 | 45        |
| 48 | Mitigation of clofibric acid pollution by adsorption: A review of recent developments. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104264.   | 3.3 | 60        |
| 49 | Adsorption of Cationic Dyes on <i>Dacryodes edulis</i> Seeds Activated Carbon Modified Using Phosphoric Acid and Sodium Chloride. <i>Environmental Processes</i> , 2020, 7, 1151-1171.   | 1.7 | 54        |
| 50 | Mitigation of Metronidazole (Flagyl) pollution in aqueous media by adsorption: a review. <i>Environmental Technology Reviews</i> , 2020, 9, 137-148.   | 2.1 | 44        |
| 51 | Acid Dye Removal from Aqueous Solution by Using Neodymium(III) Oxide Nanoadsorbents. <i>Nanomaterials</i> , 2020, 10, 556.   | 1.9 | 67        |
| 52 | Hydrothermal synthesis of LaFeO <sub>3</sub> nanoparticles adsorbent: Characterization and application of error functions for adsorption of fluoride. <i>MethodsX</i> , 2020, 7, 100786.   | 0.7 | 39        |
| 53 | Studies on Adsorption Characteristics of Corn Cobs Activated Carbon for the Removal of Oil and Grease from Oil Refinery Desalter Effluent in a Downflow Fixed Bed Adsorption Equipment. <i>European Journal of Sustainable Development Research</i> , 2020, 5, em0145. | 0.4 | 14        |
| 54 | Efficiency comparison of advanced oxidation processes for ciprofloxacin removal from aqueous solutions: Sonochemical, sono-nano-chemical and sono-nano-chemical/persulfate processes. <i>Environmental Engineering Research</i> , 2020, 25, 178-185.                   | 1.5 | 28        |

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|----|--|-----|-----------|
| 55 | Modelling the Effect of Sorbate-Sorbent Interphase on the Adsorption of Pesticides and Herbicides by Historical Data Design. <i>Iranica Journal of Energy &amp; Environment</i> , 2020, 11, .  | 0.2 | 3         |
| 56 | Modeling of adsorption of Methylene Blue dye on Ho-CaWO <sub>4</sub> nanoparticles using Response Surface Methodology (RSM) and Artificial Neural Network (ANN) techniques. <i>MethodsX</i> , 2019, 6, 1779-1797.                              | 0.7 | 122       |
| 57 | The application of thermally activated persulfate for degradation of Acid Blue 92 in aqueous solution. <i>International Journal of Industrial Chemistry</i> , 2019, 10, 249-260.   | 3.1 | 45        |
| 58 | The survey of application of the linear and nonlinear kinetic models for the adsorption of nickel(II) by modified multi-walled carbon nanotubes. <i>Applied Water Science</i> , 2019, 9, 1.  | 2.8 | 25        |
| 59 | Degradation of aniline by the combined process of ultrasound and hydrogen peroxide (US/H <sub>2</sub> O <sub>2</sub> ). <i>MethodsX</i> , 2019, 6, 492-499.  | 0.7 | 24        |
| 60 | Data on the removal of fluoride from aqueous solutions using synthesized P/Fe <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> nanoparticles: A novel adsorbent. <i>MethodsX</i> , 2019, 6, 98-106.  | 0.7 | 22        |
| 61 | Utilization of Calcined Gypsum in Water and Wastewater Treatment: Removal of Phenol. <i>Journal of Ecological Engineering</i> , 2019, 20, 1-10.  | 0.5 | 13        |
| 62 | Determination of Shelf Life of Picralima nitida, Ciprofloxacin and Pefloxacin Using Bio-Based Concentration-activity Relationship Technique. <i>Asian Journal of Research in Medical and Pharmaceutical Sciences</i> , 2019, 6, 1-17.          | 0.2 | 3         |
| 63 | Application of response surface methodology in the degradation of Reactive Blue 19 using H <sub>2</sub> O <sub>2</sub> /MgO nanoparticles advanced oxidation process. <i>International Journal of Industrial Chemistry</i> , 2018, 9, 241-253. | 3.1 | 45        |
| 64 | Adsorptive removal of phenol and aniline by modified bentonite: adsorption isotherm and kinetics study. <i>Applied Water Science</i> , 2018, 8, 1.   | 2.8 | 56        |
| 65 | Survey dataset on the externalizing self-esteem and gender effects on self-esteem subscales of students in Zabol University of Medical Sciences, Iran. <i>Data in Brief</i> , 2018, 21, 407-413.   | 0.5 | 4         |
| 66 | Adsorptive Treatment of Textile Wastewater Using Activated Carbon Produced from Mucuna pruriens Seed Shells. <i>World Journal of Engineering and Technology</i> , 2016, 04, 21-37.   | 0.3 | 30        |
| 67 | Adsorptive Removal of Vat Yellow 4 on Activated Mucuna pruriens (Velvet Bean) Seed Shells Carbon. <i>Asian Journal of Chemical Sciences</i> , 2016, 1, 1-16.   | 0.4 | 14        |
| 68 | Design Enhancement Evaluation of a Castor Seed Shelling Machine. <i>Journal of Scientific Research and Reports</i> , 2014, 3, 924-938.   | 0.2 | 4         |
| 69 | Efficiency of sono-nano-catalytic process of magnesium oxide nanoparticle in removal of penicillin G from aqueous solution. , 0, 106, 330-335.   |     | 26        |
| 70 | Synthesis and physical characterization of nickel oxide nanoparticles and its application study in the removal of ciprofloxacin from contaminated water by adsorption: Equilibrium and kinetic studies. , 0, 141, 386-393.                     |     | 27        |
| 71 | Removal of Remazol Black B from solution aqueous using P/Fe <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> nanoparticles: synthesis, physical characterization, isotherm, kinetic and thermodynamic studies. , 0, 152, 401-410.                  |     | 9         |
| 72 | Shelf Life Assessment of Picralima nitida and Glibenclamide Using Bio-Based Dose-Response Relationship Method. <i>Asian Journal of Research in Medical and Pharmaceutical Sciences</i> , 0, , 1-10.  | 0.2 | 1         |

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|----|--|-----|-----------|
| 73 | Design of Shell and Tube Heat Exchanger with Double Passes. Journal of Engineering Research and Reports, 0, , 1-12.          | 0.0 | 0         |
| 74 | Exploitation of Empty Palm Fruit Bunch for the Generation of Electricity. Journal of Energy Research and Reviews, 0, , 1-12. | 0.0 | 5         |