

# 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	Adsorption of ciprofloxacin from water: A comprehensive review. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 93, 57-77.	2.9	199
2	Removal of ibuprofen from aqueous media by adsorption: A comprehensive review. <i>Science of the Total Environment</i> , 2021, 780, 146608.	3.9	136
3	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
4	Adsorption of methyl orange: A review on adsorbent performance. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100179.	2.9	110
5	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
6	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
7	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
8	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
9	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
10	Acid Dye Removal from Aqueous Solution by Using Neodymium(III) Oxide Nanoadsorbents. <i>Nanomaterials</i> , 2020, 10, 556.	1.9	67
11	Adsorption of doxycycline from aqueous media: A review. <i>Journal of Molecular Liquids</i> , 2021, 334, 116124.	2.3	67
12	Cost of adsorbent preparation and usage in wastewater treatment: A review. , 2022, 3, 100042.		63
13	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
14	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
15	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
16	A review of methods for the removal of penicillins from water. <i>Journal of Water Process Engineering</i> , 2021, 39, 101886.	2.6	57
17	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
18	Adsorption of Cationic Dyes on Dacryodes edulis Seeds Activated Carbon Modified Using Phosphoric Acid and Sodium Chloride. <i>Environmental Processes</i> , 2020, 7, 1151-1171.	1.7	54

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19	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
20	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
21	Praseodymium-doped cadmium tungstate (CdWO <sub>4</sub> ) nanoparticles for dye degradation with sonocatalytic process. <i>Polyhedron</i> , 2020, 190, 114792.	1.0	45
22	Mitigation of Metronidazole (Flagyl) pollution in aqueous media by adsorption: a review. <i>Environmental Technology Reviews</i> , 2020, 9, 137-148.	2.1	44
23	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
24	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
25	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
26	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
27	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
28	Sunflower-biomass derived adsorbents for toxic/heavy metals removal from (waste) water. <i>Journal of Molecular Liquids</i> , 2021, 342, 117540.	2.3	36
29	Flash pyrolysis of biomass: a review of recent advances. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 2349-2363.	2.1	34
30	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
31	Adsorptive Treatment of Textile Wastewater Using Activated Carbon Produced from <i>Mucuna pruriens</i> Seed Shells. <i>World Journal of Engineering and Technology</i> , 2016, 04, 21-37.	0.3	30
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	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
34	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
35	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
36	Efficiency of sono-nano-catalytic process of magnesium oxide nanoparticle in removal of penicillin G from aqueous solution. , 0, 106, 330-335.		26

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37	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
38	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
39	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
40	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
41	Treatment technologies for bakers' yeast production wastewater. <i>Environmental Science and Pollution Research</i> , 2022, 29, 11004-11026.	2.7	24
42	Data on the removal of fluoride from aqueous solutions using synthesized P/Fe <sub>3</sub> O <sub>4</sub> nanoparticles: A novel adsorbent. <i>MethodsX</i> , 2019, 6, 98-106.	0.7	22
43	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
44	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
45	Recent Advances on the Aqueous Phase Adsorption of Carbamazepine. <i>ChemBioEng Reviews</i> , 2022, 9, 231-247.	2.6	17
46	Trends in the treatment of aquaculture effluents using nanotechnology. <i>Cleaner Materials</i> , 2021, 2, 100024.	1.9	15
47	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
48	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
49	Adsorptive Removal of Vat Yellow 4 on Activated <i>Mucuna pruriens</i> (Velvet Bean) Seed Shells Carbon. <i>Asian Journal of Chemical Sciences</i> , 2016, 1, 1-16.	0.4	14
50	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
51	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
52	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
53	Removal of Remazol Black B from solution aqueous using P/Fe <sub>3</sub> O <sub>4</sub> nanoparticles: synthesis, physical characterization, isotherm, kinetic and thermodynamic studies. , 0, 152, 401-410.		9
54	A review of pine-based adsorbents for the adsorption of dyes. , 2022, , 319-332.		9

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55	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
56	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
57	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
58	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
59	Exploitation of Empty Palm Fruit Bunch for the Generation of Electricity. <i>Journal of Energy Research and Reviews</i> , 0, , 1-12.	0.0	5
60	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
61	Kinetic Studies on Penicillin G Removal from Aqueous Environments by Cupric Oxide Nanoparticles. , 2021, 10, 86-96.		4
62	Design Enhancement Evaluation of a Castor Seed Shelling Machine. <i>Journal of Scientific Research and Reports</i> , 2014, 3, 924-938.	0.2	4
63	CuO nanoparticles as modifiers for membranes: A review of performance for water treatment. <i>Materials Today Communications</i> , 2022, 32, 103896.	0.9	4
64	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
65	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
66	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
67	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
68	Bio-coagulation-Flocculation of Land-Based Saline Aquaculture Effluent Using Parkia biglobosa Seeds. , 2021, , 315-334.		2
69	ANN prognostication and GA optimization of municipal solid waste leachate treatment using aluminum electrodes via electrocoagulation-flocculation method. , 2022, , 161-183.		2
70	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
71	Design of Shell and Tube Heat Exchanger with Double Passes. <i>Journal of Engineering Research and Reports</i> , 0, , 1-12.	0.0	0
72	Computer-aided modeling of solid waste conversion: case study of maize (Zea mays) residues air gasification. , 2022, , 381-391.		0

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73	Modeling of grains sun drying: from theoretical methods to intelligent systems. , 2022, , 433-442.		0
74	The utilization of rubber ( <i>Hevea brasiliensis</i> ) seed shells as adsorbent for water pollution remediation. , 2022, , 13-28.		0