

Bamidele I Olu-Owolabi

List of Publications by Year in descending order

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64
papers

3,386
citations

126708

33
h-index

143772

57
g-index

66
all docs

66
docs citations

66
times ranked

3387
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic and thermodynamic studies of the adsorption of lead (II) ions onto phosphate-modified kaolinite clay. <i>Journal of Hazardous Materials</i> , 2007, 144, 386-395.	6.5	288
2	Adsorption of Pb (II) and Cd (II) from aqueous solutions onto sodium tetraborate-modified Kaolinite clay: Equilibrium and thermodynamic studies. <i>Hydrometallurgy</i> , 2008, 93, 1-9.	1.8	192
3	The effect of some operating variables on the adsorption of lead and cadmium ions on kaolinite clay. <i>Journal of Hazardous Materials</i> , 2006, 134, 130-139.	6.5	189
4	Hydrothermal treatments of Finger millet (<i>Eleusine coracana</i>) starch. <i>Food Hydrocolloids</i> , 2005, 19, 974-983.	5.6	175
5	Effect of heat-moisture treatment on physicochemical properties of white sorghum starch. <i>Food Hydrocolloids</i> , 2008, 22, 225-230.	5.6	164
6	Functional properties of native, physically and chemically modified breadfruit (<i>Artocarpus artilis</i>) starch. <i>Industrial Crops and Products</i> , 2005, 21, 343-351.	2.5	142
7	Heavy metal contamination of roadside topsoil in Osogbo, Nigeria: its relationship to traffic density and proximity to highways. <i>Environmental Geology</i> , 2003, 44, 150-157.	1.2	124
8	Evaluation of pyrene sorption-desorption on tropical soils. <i>Journal of Environmental Management</i> , 2014, 137, 1-9.	3.8	111
9	Adsorption of some heavy metal ions on sulfate- and phosphate-modified kaolin. <i>Applied Clay Science</i> , 2005, 29, 145-148.	2.6	108
10	Phytoremediation potential of <i>Eichornia crassipes</i> in metal-contaminated coastal water. <i>Bioresource Technology</i> , 2009, 100, 4521-4526.	4.8	104
11	Synthesis of covalently bonded graphene oxide-iron magnetic nanoparticles and the kinetics of mercury removal. <i>RSC Advances</i> , 2015, 5, 2536-2542.	1.7	99
12	Functional, physicochemical and retrogradation properties of sword bean (<i>Canavalia gladiata</i>) acetylated and oxidized starches. <i>Carbohydrate Polymers</i> , 2006, 65, 93-101.	5.1	95
13	Comparative study of the photocatalytic degradation of 2-chlorophenol under UV irradiation using pristine and Ag-doped species of TiO ₂ , ZnO and ZnS photocatalysts. <i>Journal of Environmental Management</i> , 2020, 260, 110145.	3.8	93
14	Modeling of fixed-bed column studies for the adsorption of cadmium onto novel polymer-clay composite adsorbent. <i>Journal of Hazardous Materials</i> , 2010, 179, 415-423.	6.5	82
15	Graphene oxide-tripolyphosphate hybrid used as a potent sorbent for cationic dyes. <i>Carbon</i> , 2014, 79, 174-182.	5.4	77
16	Adsorptive removal of 2,4,6-trichlorophenol in aqueous solution using calcined kaolinite-biomass composites. <i>Journal of Environmental Management</i> , 2017, 192, 94-99.	3.8	70
17	Kinetic and thermodynamic aspects of the adsorption of Pb ²⁺ and Cd ²⁺ ions on tripolyphosphate-modified kaolinite clay. <i>Chemical Engineering Journal</i> , 2008, 136, 99-107.	6.6	69
18	Microscale scavenging of pentachlorophenol in water using amine and tripolyphosphate-grafted SBA-15 silica: Batch and modeling studies. <i>Journal of Environmental Management</i> , 2014, 146, 42-49.	3.8	66

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19	Effects of time, soil organic matter, and iron oxides on the relative retention and redistribution of lead, cadmium, and copper on soils. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10331-10339.	2.7	64
20	Calcined biomass-modified bentonite clay for removal of aqueous metal ions. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1376-1382.	3.3	63
21	Predicting the dynamics and performance of a polymer-clay based composite in a fixed bed system for the removal of lead (II) ion. <i>Chemical Engineering Research and Design</i> , 2012, 90, 1105-1115.	2.7	62
22	Comparison of sorption of Pb ²⁺ and Cd ²⁺ on Kaolinite clay and polyvinyl alcohol-modified Kaolinite clay. <i>Adsorption</i> , 2008, 14, 791-803.	1.4	56
23	Mechanism of Pb ²⁺ removal from aqueous solution using a nonliving moss biomass. <i>Chemical Engineering Journal</i> , 2012, 195-196, 270-275.	6.6	56
24	Competitive biosorption of Pb(II) and Cd(II) ions from aqueous solutions using chemically modified moss biomass (<i>Barbula lambarensis</i>). <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	53
25	Adsorption of Zn ²⁺ and Cu ²⁺ onto sulphate and phosphate-modified bentonite. <i>Applied Clay Science</i> , 2011, 51, 170-173.	2.6	45
26	Removal of Cu ²⁺ and Cd ²⁺ from Aqueous Solution by Bentonite Clay Modified with Binary Mixture of Goethite and Humic Acid. <i>Water, Air, and Soil Pollution</i> , 2010, 211, 459-474.	1.1	44
27	Fractal-like concepts for evaluation of toxic metals adsorption efficiency of feldspar-biomass composites. <i>Journal of Cleaner Production</i> , 2018, 171, 884-891.	4.6	43
28	Removal of Lead and Cadmium Ions from Aqueous Solution by Polyvinyl Alcohol-Modified Kaolinite Clay: A Novel Nano-Clay Adsorbent. <i>Adsorption Science and Technology</i> , 2008, 26, 383-405.	1.5	42
29	Utilizing eco-friendly kaolinite-biochar composite adsorbent for removal of ivermectin in aqueous media. <i>Journal of Environmental Management</i> , 2021, 279, 111619.	3.8	42
30	Kinetic and thermodynamics of the removal of Zn ²⁺ and Cu ²⁺ from aqueous solution by sulphate and phosphate-modified Bentonite clay. <i>Journal of Hazardous Materials</i> , 2010, 184, 731-738.	6.5	40
31	Distribution and interactions of pentachlorophenol in soils: The roles of soil iron oxides and organic matter. <i>Journal of Contaminant Hydrology</i> , 2016, 191, 99-106.	1.6	39
32	Polyamidoamine-Functionalized Graphene Oxide-SBA-15 Mesoporous Composite: Adsorbent for Aqueous Arsenite, Cadmium, Ciprofloxacin, Ivermectin, and Tetracycline. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 3957-3968.	1.8	39
33	Sorption and desorption of fluorene on five tropical soils from different climes. <i>Geoderma</i> , 2015, 239-240, 179-185.	2.3	37
34	Pasting, Thermal, Hydration, and Functional Properties of Annealed and Heat-Moisture Treated Starch of Sword Bean (<i>Canavalia gladiata</i>). <i>International Journal of Food Properties</i> , 2011, 14, 157-174.	1.3	34
35	Effect of succinylation on the physicochemical, rheological, thermal and retrogradation properties of red and white sorghum starches. <i>Food Hydrocolloids</i> , 2011, 25, 515-520.	5.6	31
36	Competitive adsorption of metal ions onto goethite-humic acid-modified kaolinite clay. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 1043-1054.	1.8	27

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37	Fuzzy comprehensive assessment of metal contamination of water and sediments in Ondo Estuary, Nigeria. <i>Chemistry and Ecology</i> , 2008, 24, 269-283.	0.6	25
38	Effect of chemical modifications on thermal, rheological and morphological properties of yellow sorghum starch. <i>Journal of Food Science and Technology</i> , 2015, 52, 8364-8370.	1.4	25
39	Clay-carbonaceous material composites: Towards a new class of functional adsorbents for water treatment. <i>Surfaces and Interfaces</i> , 2020, 19, 100506.	1.5	25
40	Green synthesis of ZnO coated hybrid biochar for the synchronous removal of ciprofloxacin and tetracycline in wastewater. <i>RSC Advances</i> , 2021, 11, 18483-18492.	1.7	24
41	Comparison of two-stage sorption design models for the removal of lead ions by polyvinyl-modified Kaolinite clay. <i>Journal of Hazardous Materials</i> , 2009, 171, 215-221.	6.5	22
42	Successful scale-up performance of a novel papaya-clay combo adsorbent: up-flow adsorption of a basic dye. <i>Desalination and Water Treatment</i> , 2015, 56, 536-551.	1.0	21
43	Sorption behaviour of pentachlorophenol in sub-Saharan tropical soils: soil types sorption dynamics. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	21
44	Empirical Assessment and Reusability of an Eco-Friendly Amine-Functionalized SBA-15 Adsorbent for Aqueous Ivermectin. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2365-2373.	1.8	19
45	SAPK: A Novel Composite Resin for Water Treatment with Very High Zn ²⁺ , Cd ²⁺ , and Pb ²⁺ Adsorption Capacity. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 578-585.	1.8	15
46	Concentration-dependent and simultaneous sorption and desorption of pyrene and fluorene on major soil minerals in sub-Saharan Africa. <i>Applied Clay Science</i> , 2018, 153, 257-264.	2.6	15
47	Mesoporous SBA-15 Functionalized with G-5 Poly(amidoamine): A Sustainable Adsorbent for Effective Sequestration of an Emerging Aqueous Contaminant. <i>ACS Applied Nano Materials</i> , 2021, 4, 3052-3061.	2.4	15
48	Pb/Ca ion exchange on kaolinite clay modified with phosphates. <i>Journal of Soils and Sediments</i> , 2010, 10, 1103-1114.	1.5	14
49	Assessment of the effects of soil organic matter and iron oxides on the individual sorption of two polycyclic aromatic hydrocarbons. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	11
50	Natural Rubber/ Organoclay Nanocomposite from Tea (<i>Camellia</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (<i></i><i></i></i> Science, 2012, 2, 1-5.	2.0	11
51	Comparative empirical evaluation of the aqueous adsorptive sequestration potential of low-cost feldspar-biochar composites for ivermectin. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 127930.	2.3	10
52	Empirical aspects of an emerging agricultural pesticide contaminant retention on two sub-Saharan soils. <i>Gondwana Research</i> , 2022, 105, 311-319.	3.0	8
53	Kinetic field dissipation and fate of endosulfan after application on Theobroma cacao farm in tropical Southwestern Nigeria. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 196.	1.3	7
54	Seasonal and spatial variations analysis of pollution status of Ondo coastal environment Nigeria using principal component analysis. <i>Geochemical Journal</i> , 2010, 44, 89-98.	0.5	6

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55	Fuzzy logic modeling of bioaccumulation pattern of metals in coastal biota of Ondo State, Nigeria. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 89-102.	1.3	5
56	Adsorption of polynuclear aromatic hydrocarbons from aqueous solution: Agrowaste-modified kaolinite vs surfactant modified bentonite. <i>Bulletin of the Chemical Society of Ethiopia</i> , 2017, 30, 369.	0.5	5
57	GC-MS fragmentation patterns of sprayed endosulfan and its sulphate metabolite in samples of <i>Theobroma cacao</i> L from a field kinetic study. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 362-371.	0.5	5
58	Microwave Synthesized Carbon Materials as Low-cost and Efficient Adsorbents for the Removal of Antibiotics in Single and Binary Systems. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 5755-5765.	1.7	4
59	Fuzzy Logic Modeling of Contamination Degree of Ni and V Metal Species in Sediments from the Crude Oil Prospecting Area of the Ondo Coast, Nigeria. <i>Human and Ecological Risk Assessment (HERA)</i> , 2012, 18, 902-918.	1.7	2
60	Physicochemical and Thermodynamic Adsorption Studies of a Ferric Luvisol Soil in Western Nigeria. <i>Soil and Sediment Contamination</i> , 2009, 19, 119-131.	1.1	1
61	Fate and Mobility of Copper in Soil of Cocoa Plantations in Two Southwestern States of Nigeria Treated with Copper-Based Fungicides. <i>Soil and Sediment Contamination</i> , 2012, 21, 918-936.	1.1	1
62	Monitoring Copper Bioaccumulation in Cocoa from Copper-Based Pesticide-Treated Cocoa Farms Using Fuzzy Similarity Method. <i>Bioremediation Journal</i> , 2013, 17, 131-147.	1.0	1
63	Water quality assessment and heavy metals in sediment, soil and vegetable around Oke-Afa Canal, Lagos, Nigeria. <i>International Journal of Environment and Waste Management</i> , 2012, 10, 400.	0.2	0
64	Modelling the speciation pattern of metals in Ondo coastal water with geochemical model PHREEQCI. <i>Water Practice and Technology</i> , 2012, 7, .	1.0	0