

Abu Yaya

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,101
citations

430874

18
h-index

454955

30
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69
all docs

69
docs citations

69
times ranked

1556
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron Nitride Nanotubes for Curcumin Delivery as an Anticancer Drug: A DFT Investigation. Applied Sciences (Switzerland), 2022, 12, 879.	2.5	13
2	Photothermally-Heated Superparamagnetic Polymeric Nanocomposite Implants for Interstitial Thermotherapy. Nanomaterials, 2022, 12, 955.	4.1	2
3	Density Functional Theory-Based Studies Predict Carbon Nanotubes as Effective Mycolactone Inhibitors. Molecules, 2022, 27, 4440.	3.8	3
4	Modified nanostructured titania photocatalysts for aquatic disinfection applications. Materials Today: Proceedings, 2021, 38, 1183-1190.	1.8	1
5	Catalytic Pyrolysis of Waste Engine Oil over Y Zeolite Synthesized from Natural Clay. Waste and Biomass Valorization, 2021, 12, 4157-4170.	3.4	3
6	Induced ferromagnetism in bilayer hexagonal Boron Nitride (h-BN) on vacancy defects at B and N sites. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114436.	2.7	17
7	The stability of 3C-SiC(1 1 1) on Si(1 1 1) thin films: First-principles calculation. Chemical Physics Letters, 2021, 766, 138318.	2.6	1
8	The effect of natural fibre reinforcement on polyurethane composite foams – A review. Scientific African, 2021, 11, e00722.	1.5	34
9	Comparative analyses of rice husk cellulose fiber and kaolin particulate reinforced thermoplastic cassava starch biocomposites using the solution casting technique. Polymer Composites, 2021, 42, 3216-3230.	4.6	5
10	Synthesis of nanostructured cupric oxide for visible light assisted degradation of organic wastewater pollutants. Cogent Engineering, 2021, 8, 1920563.	2.2	5
11	Comparative Study of Phosgene Gas Sensing Using Carbon and Boron Nitride Nanomaterials – A DFT Approach. Molecules, 2021, 26, 120.	3.8	13
12	The physico-mechanical influence of dehydroxylized activated local kaolin: A supplementary cementitious material for construction applications. Case Studies in Construction Materials, 2020, 12, e00306.	1.7	3
13	Synthesis and kinetic adsorption characteristics of Zeolite/CeO ₂ nanocomposite. Scientific African, 2020, 7, e00257.	1.5	23
14	Curing Temperature Effects on the Tensile Properties and Hardness of Fe^{13} Reinforced PDMS Nanocomposites. Advances in Materials Science and Engineering, 2020, 2020, 1-11.	1.8	10
15	A theoretical study of the structural and electronic properties of poly(9-vinylcarbazole) interacting with small-diameter single-walled carbon nanotubes. International Journal of Computational Materials Science and Engineering, 2020, 09, 2050009.	0.7	0
16	Effects of substrates on the performance of optoelectronic devices: A review. Cogent Engineering, 2020, 7, 1829274.	2.2	9
17	Development and Characterization of Clay – Nanocomposites for Water Purification. Materials, 2020, 13, 3793.	2.9	9
18	Destruction of Fibroadenomas Using Photothermal Heating of Fe ₃ O ₄ Nanoparticles: Experiments and Models. Applied Sciences (Switzerland), 2020, 10, 5844.	2.5	3

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19	Stacking Interactions of Poly Para-Phenylene Vinylene Oligomers with Graphene and Single-Walled Carbon Nanotubes: A Molecular Dynamics Approach. <i>Molecules</i> , 2020, 25, 4812.	3.8	1
20	Synthesis and characterization of zinc and copper oxide nanoparticles and their antibacteria activity. <i>Results in Materials</i> , 2020, 7, 100099.	1.8	23
21	Structural and Electronic properties of PVK/C60 Nanoheterostructure interfaces- A DFT Approach. <i>Surfaces and Interfaces</i> , 2020, 20, 100556.	3.0	2
22	A Comparative Study of Antibacterial Activity of CuO/Ag and ZnO/Ag Nanocomposites. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-18.	1.8	41
23	Photocatalytic degradation of fractionated crude oil: potential application in oil spill remediation. <i>Cogent Engineering</i> , 2020, 7, 1744944.	2.2	15
24	Iron and silver nanostructures: Biosynthesis, characterization and their catalytic properties. <i>Nano Structures Nano Objects</i> , 2020, 22, 100453.	3.5	8
25	Potential Application of Dioctyl Sodium Sulfosuccinate Salt (DOSS) as Saponin Binary Dispersant in Oil Spill Remediation: Synergistic Interaction Between DOSS and Saponin. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	6
26	Outwitting an Old Neglected Nemesis: A Review on Leveraging Integrated Data-Driven Approaches to Aid in Unraveling of Leishmanicides of Therapeutic Potential. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 349-366.	2.1	13
27	Characterization and Evaluation of Zeolite A/Fe ₃ O ₄ Nanocomposite as a Potential Adsorbent for Removal of Organic Molecules from Wastewater. <i>Journal of Chemistry</i> , 2019, 2019, 1-13.	1.9	36
28	Single-Walled boron nitride nanotubes interaction with nickel, titanium, palladium, and gold metal atoms- A first-principles study. <i>Results in Materials</i> , 2019, 2, 100029.	1.8	7
29	New 2D Structural Materials: Carbon-Gallium Nitride (CC-GaN) and Boron-Gallium Nitride (BN-GaN) Heterostructures Materials Design Through Density Functional Theory. <i>ACS Omega</i> , 2019, 4, 1722-1728.	3.5	11
30	Ag ₂ CO ₃ -halloysite nanotubes composite with enhanced removal efficiency for water soluble dyes. <i>Heliyon</i> , 2019, 5, e01969.	3.2	28
31	A comparative study of the interaction of nickel, titanium, palladium, and gold metals with single-walled carbon nanotubes: A DFT approach. <i>Results in Physics</i> , 2019, 12, 2100-2106.	4.1	8
32	Ablation of Hepatic Tumors through the Use of a Novel Magnetic Nanocomposite Probe: Magnetic Characterization and Finite Element Method Analysis. <i>Journal of Nanotechnology</i> , 2019, 2019, 1-9.	3.4	3
33	Synthesis and Application of Fe-Doped TiO ₂ -Halloysite Nanotubes Composite and Their Potential Application in Water Treatment. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-15.	1.8	13
34	First-principles calculations on structure and electronic properties of β -zirconium hydrogen phosphate. <i>MRS Advances</i> , 2019, 4, 2699-2707.	0.9	0
35	Mapping the stacking interaction of triphenyl vinylene oligomers with graphene and carbon nanotubes. <i>Carbon</i> , 2019, 141, 274-282.	10.3	5
36	The effect of NaOH catalyst concentration and extraction time on the yield and properties of <i>Citrullus vulgaris</i> seed oil as a potential biodiesel feed stock. <i>South African Journal of Chemical Engineering</i> , 2018, 25, 98-102.	2.4	32

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37	Synthesis and characterisation of zeolite-A and Zn-exchanged zeolite-A based on natural aluminosilicates and their potential applications. Cogent Engineering, 2018, 5, 1440480.	2.2	23
38	Rapid microwave synthesis of needle-like hydroxyapatite nanoparticles via template directing ball-milled spindle-shaped eggshell particles. Ceramics International, 2018, 44, 7165-7171.	4.8	22
39	Nanostructured stannic oxide: Synthesis and characterisation for potential energy storage applications. Results in Physics, 2018, 9, 1391-1402.	4.1	12
40	Preparation and Characterization of Indium and Gallium doped Transparent ZnO Films for Solar Cell Applications. Oriental Journal of Chemistry, 2018, 34, 2325-2331.	0.3	3
41	Preparation and Characterization of Rubber Blends for Industrial Tire Tread Fabrication. International Journal of Polymer Science, 2018, 2018, 1-12.	2.7	20
42	Industrial Applications of Clay Materials from Ghana (A Review). Oriental Journal of Chemistry, 2018, 34, 1719-1734.	0.3	9
43	Exploring the impact of hydrostatic pressure on the structural, electronic and mechanical properties of ZrNiPb half-Heusler alloy: A DFT approach. International Journal of Modern Physics B, 2018, 32, 1850248.	2.0	3
44	Modified halloysite nanoclay as a vehicle for sustained drug delivery. Heliyon, 2018, 4, e00689.	3.2	67
45	Application of clay ceramics and nanotechnology in water treatment: A review. Cogent Engineering, 2018, 5, 1476017.	2.2	33
46	Light-soaking tests of zinc oxide photoanodes sensitized with an indoline dye on different transparent conductive substrates. AIMS Energy, 2018, 6, 949-958.	1.9	0
47	Nanocomposite sodalite/ceramic membrane for pre-combustion CO ₂ capture: synthesis and morphological characterization. International Journal of Coal Science and Technology, 2017, 4, 60-66.	6.0	8
48	A plasmonic photo-thermal probe for thermoablation of post-operative breast cancer cells. Cogent Engineering, 2017, 4, 1331966.	2.2	2
49	Characterisation and identification of local kaolin clay from Ghana: A potential material for electroporcelain insulator fabrication. Applied Clay Science, 2017, 150, 125-130.	5.2	25
50	Effect of Magnesium and Sodium Salts on the Interfacial Characteristics of Soybean Lecithin Dispersants. Industrial & Engineering Chemistry Research, 2017, 56, 12608-12620.	3.7	12
51	Synthesis and Pore Structure Characterisation of Novel Mesoporous MgO-CeO ₂ /SBA-15 as a Potential Catalyst Support. Materials Science Forum, 2017, 900, 40-45.	0.3	2
52	Awaso bauxite red mud-cement based composites: Characterisation for pavement applications. Case Studies in Construction Materials, 2017, 7, 45-55.	1.7	42
53	Indirect phase transition of TiC, ZrC, and HfC crystal structures. Physica Status Solidi (B): Basic Research, 2016, 253, 1177-1185.	1.5	12
54	A study of polybromide chain formation using carbon nanomaterials via density functional theory approach. Cogent Engineering, 2016, 3, 1261509.	2.2	5

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55	Dispersion and functionalization of single-walled carbon nanotubes (SWCNTS) for nanocomposite applications. <i>Materiaux Et Techniques</i> , 2016, 104, 607.	0.9	2
56	Electronic interaction in composites of a conjugated polymer and carbon nanotubes: first-principles calculation and photophysical approaches. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1138-1144.	2.8	9
57	Development and Comparative Analysis of Aluminosilicate Based Ceramic Filters for Ground Water Defluoridation. <i>Advanced Materials Research</i> , 2014, 936, 822-828.	0.3	2
58	Surface energy of Si(110)- and 3C-SiC(111)-terminated surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 1408-1415.	1.5	18
59	Synthesis and microstructural characterization of kaolin-polyethylene composites. <i>Polymer Composites</i> , 2014, 35, 1507-1515.	4.6	9
60	Improved photoconductive properties of composite nanofibers based on aligned conjugated polymer and single-walled carbon nanotubes. <i>Nano Research</i> , 2013, 6, 149-158.	10.4	17
61	Band Gap Engineering via Edge-Functionalization of Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26790-26796.	3.1	78
62	Effects of Purity on the Mechanical Properties of Single-Walled Carbon Nanotubes-Polymer Nanocomposites. <i>British Journal of Applied Science & Technology</i> , 2013, 3, 884-897.	0.2	4
63	Bromination of Double-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2012, 24, 2708-2715.	6.7	76
64	A comparative study of density functional and density functional tight binding calculations of defects in graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 276-282.	1.5	55
65	Graphene Edge Structures: Folding, Scrolling, Tubing, Rippling and Twisting. <i>Carbon Nanostructures</i> , 2012, , 75-85.	0.1	9
66	Bromination of graphene and graphite. <i>Physical Review B</i> , 2011, 83, .	3.2	40
67	Purification of single-walled carbon nanotubes. <i>EPJ Applied Physics</i> , 2011, 54, 10401.	0.7	16
68	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. <i>Chemistry of Materials</i> , 2010, 22, 4197-4203.	6.7	49
69	Formation of Chitosan Nanoparticles Using Deacetylated Chitin Isolated from Freshwater Algae and Locally Synthesized Zeolite A and their Influence on Cancer Cell Growth. <i>Journal of Nano Research</i> , 0, 48, 156-170.	0.8	11