

Emmanuel Nyankson

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,210
citations

361296

20
h-index

377752

34
g-index

46
all docs

46
docs citations

46
times ranked

1399
citing authors

#	ARTICLE	IF	CITATIONS
1	Release of Surfactant Cargo from Interfacially-Active Halloysite Clay Nanotubes for Oil Spill Remediation. <i>Langmuir</i> , 2014, 30, 13533-13541.	1.6	129
2	Lignin-derived heteroatom-doped porous carbons for supercapacitor and CO ₂ capture applications. <i>International Journal of Energy Research</i> , 2018, 42, 2686-2700.	2.2	94
3	Surfactant-Loaded Halloysite Clay Nanotube Dispersants for Crude Oil Spill Remediation. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9328-9341.	1.8	91
4	Modified halloysite nanoclay as a vehicle for sustained drug delivery. <i>Heliyon</i> , 2018, 4, e00689.	1.4	67
5	The effect of titanium dioxide synthesis technique and its photocatalytic degradation of organic dye pollutants. <i>Heliyon</i> , 2018, 4, e00681.	1.4	66
6	Advancements in Crude Oil Spill Remediation Research After the Deepwater Horizon Oil Spill. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	60
7	Soybean Lecithin as a Dispersant for Crude Oil Spills. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 920-931.	3.2	55
8	Interfacial adsorption and surfactant release characteristics of magnetically functionalized halloysite nanotubes for responsive emulsions. <i>Journal of Colloid and Interface Science</i> , 2016, 463, 288-298.	5.0	51
9	Interfacially Active Hydroxylated Soybean Lecithin Dispersant for Crude Oil Spill Remediation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2056-2067.	3.2	50
10	Recent advances in photoinduced catalysis for water splitting and environmental applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 31-49.	2.9	43
11	Recent advances in nanostructured superhydrophobic surfaces: fabrication and long-term durability challenges. <i>Current Opinion in Chemical Engineering</i> , 2022, 36, 100790.	3.8	38
12	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.	0.9	36
13	Application of clay ceramics and nanotechnology in water treatment: A review. <i>Cogent Engineering</i> , 2018, 5, 1476017.	1.1	33
14	The effect of NaOH catalyst concentration and extraction time on the yield and properties of Citrullus vulgaris seed oil as a potential biodiesel feed stock. <i>South African Journal of Chemical Engineering</i> , 2018, 25, 98-102.	1.2	32
15	Ag ₂ CO ₃ -halloysite nanotubes composite with enhanced removal efficiency for water soluble dyes. <i>Heliyon</i> , 2019, 5, e01969.	1.4	28
16	Synthesis of TiO ₂ -Ag ₃ PO ₄ photocatalyst material with high adsorption capacity and photocatalytic activity: application in the removal of dyes and pesticides. <i>RSC Advances</i> , 2021, 11, 17032-17045.	1.7	27
17	Synthesis and Characterization of Modified Kaolin-Bentonite Composites for Enhanced Fluoride Removal from Drinking Water. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-12.	1.0	26
18	Removal of water-soluble dyes and pharmaceutical wastes by combining the photocatalytic properties of Ag ₃ PO ₄ with the adsorption properties of halloysite nanotubes. <i>Materials Today Advances</i> , 2019, 4, 100025.	2.5	25

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19	Synthesis and characterisation of zeolite-A and Zn-exchanged zeolite-A based on natural aluminosilicates and their potential applications. Cogent Engineering, 2018, 5, 1440480.	1.1	23
20	Synthesis and kinetic adsorption characteristics of Zeolite/CeO ₂ nanocomposite. Scientific African, 2020, 7, e00257.	0.7	23
21	Comparison of the Effectiveness of Solid and Solubilized Dioctyl Sodium Sulfosuccinate (DOSS) on Oil Dispersion Using the Baffled Flask Test, for Crude Oil Spill Applications. Industrial & Engineering Chemistry Research, 2014, 53, 11862-11872.	1.8	21
22	Preparation and Characterization of Rubber Blends for Industrial Tire Tread Fabrication. International Journal of Polymer Science, 2018, 2018, 1-12.	1.2	20
23	Boric Acid Production from Colemanite Together with ex Situ CO ₂ Sequestration. Industrial & Engineering Chemistry Research, 2016, 55, 5116-5124.	1.8	18
24	Photocatalytic degradation of fractionated crude oil: potential application in oil spill remediation. Cogent Engineering, 2020, 7, 1744944.	1.1	15
25	Synthesis and Application of Fe-Doped TiO ₂ -Halloysite Nanotubes Composite and Their Potential Application in Water Treatment. Advances in Materials Science and Engineering, 2019, 2019, 1-15.	1.0	13
26	Microwave- and Formaldehyde-Assisted Synthesis of Ag ⁺ Ag ₃ PO ₄ with Enhanced Photocatalytic Activity for the Degradation of Rhodamine B Dye and Crude Oil Fractions. ACS Omega, 2020, 5, 13641-13655.	1.6	13
27	Effect of Magnesium and Sodium Salts on the Interfacial Characteristics of Soybean Lecithin Dispersants. Industrial & Engineering Chemistry Research, 2017, 56, 12608-12620.	1.8	12
28	Chitosan-Coated Halloysite Nanotubes As Vehicle for Controlled Drug Delivery to MCF-7 Cancer Cells In Vitro. Materials, 2021, 14, 2837.	1.3	11
29	Biomethane Production From Residual Algae Biomass (Ecklonia maxima): Effects of Inoculum Acclimatization on Yield. Waste and Biomass Valorization, 2022, 13, 497-509.	1.8	11
30	Synthesis and microstructural characterization of kaolin-polyethylene composites. Polymer Composites, 2014, 35, 1507-1515.	2.3	9
31	Industrial Applications of Clay Materials from Ghana (A Review). Oriental Journal of Chemistry, 2018, 34, 1719-1734.	0.1	9
32	Effects of substrates on the performance of optoelectronic devices: A review. Cogent Engineering, 2020, 7, 1829274.	1.1	9
33	A comparative study of the interaction of nickel, titanium, palladium, and gold metals with single-walled carbon nanotubes: A DFT approach. Results in Physics, 2019, 12, 2100-2106.	2.0	8
34	Single-Walled boron nitride nanotubes interaction with nickel, titanium, palladium, and gold metal atoms- A first-principles study. Results in Materials, 2019, 2, 100029.	0.9	7
35	Potential Application of Dioctyl Sodium Sulfosuccinate Salt (DOSS) as Saponin Binary Dispersant in Oil Spill Remediation: Synergistic Interaction Between DOSS and Saponin. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	6
36	Dual application of natural clay material for decolorization and adsorption of methylene blue dye. Cogent Chemistry, 2020, 6, 1788291.	2.5	5

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37	Comparative analyses of rice husk cellulose fiber and kaolin particulate reinforced thermoplastic cassava starch biocomposites using the solution casting technique. <i>Polymer Composites</i> , 2021, 42, 3216-3230.	2.3	5
38	Synthesis of nanostructured cupric oxide for visible light assisted degradation of organic wastewater pollutants. <i>Cogent Engineering</i> , 2021, 8, 1920563.	1.1	5
39	Characterization and Inhibitory Effects of Magnetic Iron Oxide Nanoparticles Synthesized from Plant Extracts on HeLa Cells. <i>International Journal of Biomaterials</i> , 2020, 2020, 1-11.	1.1	4
40	The physico-mechanical influence of dehydroxylized activated local kaolin: A supplementary cementitious material for construction applications. <i>Case Studies in Construction Materials</i> , 2020, 12, e00306.	0.8	3
41	Analysis of mine water from four decommissioned pits in south-western Ghana – implications for remediation programmes for mine closure. <i>Water Policy</i> , 2017, 19, 957-977.	0.7	2
42	Structural and Electronic properties of PVK/C60 Nanoheterostructure interfaces- A DFT Approach. <i>Surfaces and Interfaces</i> , 2020, 20, 100556.	1.5	2
43	Capturing Dioclea Reflexa Seed Bioactives on Halloysite Nanotubes and pH Dependent Release of Cargo against Breast (MCF-7) Cancers In Vitro. <i>Separations</i> , 2021, 8, 26.	1.1	2
44	Monodispersed AgNPs Synthesized from the Nanofactories of Theobroma cacao (Cocoa) Leaves and Pod Husk and Their Antimicrobial Activity. <i>International Journal of Biomaterials</i> , 2022, 2022, 1-9.	1.1	2
45	Carbonated hydroxyapatite-assisted visible light degradation of methylene blue. <i>International Journal of Ceramic Engineering & Science</i> , 2022, 4, 38-46.	0.5	1
46	A theoretical study of the structural and electronic properties of poly(9-vinylcarbazole) interacting with small-diameter single-walled carbon nanotubes. <i>International Journal of Computational Materials Science and Engineering</i> , 2020, 09, 2050009.	0.5	0