

Zaidi Embong

List of Publications by Year in descending order

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80
papers

939
citations

567281

15
h-index

501196

28
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84
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84
docs citations

84
times ranked

978
citing authors

#	ARTICLE	IF	CITATIONS
1	XPS and DFT investigations of corrosion inhibition of substituted benzylidene Schiff bases on mild steel in hydrochloric acid. <i>Applied Surface Science</i> , 2019, 476, 861-877.	6.1	162
2	Neutron beam interaction with rutile TiO ₂ single crystal (1Å1Å1): Raman and XPS study on Ti ³⁺ -oxygen vacancy formation. <i>Materials Letters</i> , 2020, 263, 127143.	2.6	110
3	Influence of substrate annealing on inducing Ti ³⁺ and oxygen vacancy in TiO ₂ thin films deposited via RF magnetron sputtering. <i>Applied Surface Science</i> , 2018, 462, 575-582.	6.1	62
4	Tribological investigations on the application of oil-miscible ionic liquids additives in modified Jatropa-based metalworking fluid. <i>Tribology International</i> , 2018, 120, 520-534.	5.9	51
5	Investigation of natural environmental radioactivity concentration in soil of coastal area of Ado-Odo/Ota Nigeria and its radiological implications. <i>Scientific Reports</i> , 2019, 9, 4219.	3.3	44
6	Niobium substituted magnetite as a strong heterogeneous Fenton catalyst for wastewater treatment. <i>Applied Surface Science</i> , 2015, 351, 175-187.	6.1	39
7	Assessment of natural radioactivity in various commercial tiles used for building purposes in Nigeria. <i>MethodsX</i> , 2018, 5, 8-19.	1.6	38
8	Adsorption and corrosion inhibition accomplishment for thiosemicarbazone derivatives for mild steel in 1.0M HCl medium: Electrochemical, XPS and DFT studies. <i>Journal of Molecular Liquids</i> , 2021, 329, 115553.	4.9	30
9	Natural radioactivity concentrations of ²²⁶ Ra, ²³² Th, and ⁴⁰ K in commercial building materials and their lifetime cancer risk assessment in dwellers. <i>Human and Ecological Risk Assessment (HERA)</i> , 2018, 24, 2036-2053.	3.4	26
10	Experimental and theoretical studies of azomethines derived from benzylamine as corrosion inhibitors of mild steel in 1M HCl. <i>Journal of Molecular Structure</i> , 2020, 1222, 128899.	3.6	26
11	Oxidative desulfurization of commercial diesel catalyzed by tert-butyl hydroperoxide polymolybdate on alumina: optimization by Box-Behnken design. <i>Clean Technologies and Environmental Policy</i> , 2015, 17, 433-441.	4.1	25
12	High Coke-Resistance Pt/Mg _{1-x} Ni _x O Catalyst for Dry Reforming of Methane. <i>PLoS ONE</i> , 2016, 11, e0145862.	2.5	25
13	Assessment of natural radionuclides and its radiological hazards from tiles made in Nigeria. <i>Radiation Physics and Chemistry</i> , 2018, 144, 43-47.	2.8	21
14	Radiation exposure to dwellers due to naturally occurring radionuclides found in selected commercial building materials sold in Nigeria. <i>Journal of Radiation Research and Applied Sciences</i> , 2018, 11, 225-231.	1.2	18
15	Auger electron spectroscopic study of the surface oxidation of uranium-niobium alloy {U-6wt.% Nb} in a UHV environment containing primarily H ₂ , H ₂ O and CO. <i>Surface Science</i> , 2007, 601, 3207-3214.	1.9	16
16	Natural radioactivity and geological influence on subsurface layers at Kubwa and Gosa area of Abuja, Northcentral Nigeria. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 303, 821-830.	1.5	15
17	The effect of gamma irradiation on chemical, morphology and optical properties of polystyrene nanosphere at various exposure time. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 298, 012004.	0.6	15
18	Assessment and Comparison of Electrokinetic and Electrokinetic-bioremediation Techniques for Mercury Contaminated Soil. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 160, 012077.	0.6	14

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19	The optimisation of electrokinetic remediation for heavy metals and radioactivity contamination on Holyrood-Lunas soil (acrisol species) in Sri Gading Industrial Area, Batu Pahat, Johor, Malaysia. Radiation Protection Dosimetry, 2015, 167, 160-164.	0.8	12
20	Hydrogen Production from Dry-Reforming of Biogas over Pt/Mg _{1-x} Ni _x O Catalysts. Energy Procedia, 2015, 79, 18-25.	1.8	11
21	Adsorption, electrochemistry, DFT and inhibitive effect of imines derived from tribulin on corrosion of mild steel in 1M HCl. Journal of Molecular Structure, 2021, 1235, 130206.	3.6	10
22	The potential of biodiesel production from Botryococcus sp. biomass after phytoremediation of domestic and industrial wastewater. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012048.	0.6	9
23	Radionuclides proportion and radiological risk assessment of soil samples collected in Covenant University, Ota, Ogun State Nigeria. MethodsX, 2018, 5, 1419-1426.	1.6	9
24	In-situ assessment of natural terrestrial-radioactivity from Uranium-238 (238U), Thorium-232 (232Th) and Potassium-40 (40K) in coastal urban-environment and its possible health implications. Scientific Reports, 2021, 11, 17555.	3.3	9
25	Estimation of activity concentrations of radionuclides and their hazard indices in coastal plain sand region of Ogun state. Scientific Reports, 2022, 12, 2108.	3.3	9
26	Angle resolved x-ray photoelectron spectroscopy (ARXPS) analysis of lanthanum oxide for micro-flexography printing. AIP Conference Proceedings, 2016, , .	0.4	7
27	Radiotoxicity risks of radium-226 (226Ra) on groundwater-based drinking at Dawaki, Kuje, Giri and Sabon-Lugbe area of Abuja, North Central Nigeria. Environmental Earth Sciences, 2016, 75, 1.	2.7	7
28	Elemental composition study of heavy metal (Ni, Cu, Zn) in riverbank soil by electrokinetic-assisted phytoremediation using XRF and SEM/EDX. , 2014, , .		6
29	Fabrication and Characterization of Crystalline Cupric Oxide (CuO) Films by Simple Immersion Method. Procedia Manufacturing, 2015, 2, 379-384.	1.9	6
30	A STUDY OF NATURAL RADIOACTIVITY IN SOME BUILDING MATERIALS IN NIGERIA. Radiation Protection Dosimetry, 2019, 183, 332-335.	0.8	6
31	The Effect of H ₂ S Pressure on the Formation of Multiple Corrosion Products on 316L Stainless Steel Surface. Scientific World Journal, The, 2020, 2020, 1-11.	2.1	6
32	An Investigation on Printability of Carbon Nanotube (CNTs) Inks by Flexographic onto Various Substrates. International Journal of Materials Science and Engineering, 0, , .	0.1	6
33	Radioactivity level and toxic elemental concentration in groundwater at Dei-Dei and Kubwa areas of Abuja, north-central Nigeria. Radiation Physics and Chemistry, 2015, 107, 23-30.	2.8	5
34	Radiological and chemical toxicity risks of uranium in groundwater based-drinking at Immigration Headquarters Gosa and Federal Housing Lugbe area of Abuja, North Central Nigeria. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 1185-1191.	1.5	5
35	Fuzzy Logic Control of Multi-Phase Induction Machine Drives Based on Cascaded Hybrid Multi-level Inverters. , 2018, , .		5
36	Surface study of graphene ink for fine solid lines printed on BOPP Substrate in micro-flexographic printing using XPS analysis technique. IOP Conference Series: Materials Science and Engineering, 2018, 298, 012012.	0.6	5

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37	Bioremediation of coractive blue dye by using <i>Pseudomonas</i> spp. isolated from the textile dye wastewater. IOP Conference Series: Earth and Environmental Science, 2018, 140, 012062.	0.3	5
38	The electrokinetic stabilization (EKS) impact on soft soil (peat) stability towards its physical, mechanical and dynamic properties at Johor state, Peninsular Malaysia. Physics and Chemistry of the Earth, 2021, 123, 103028.	2.9	5
39	The gamma dose assessment and pH correlation for various soil types at Batu Pahat and Kluang districts, Johor, Malaysia. AIP Conference Proceedings, 2016, , .	0.4	4
40	Comparative corrosion behaviour of austenitic 316L and duplex 2205 stainless steels: microstructure and property evolution at highly partial pressure of H ₂ S. Corrosion Engineering Science and Technology, 2022, 57, 15-31.	1.4	4
41	Peat Soil Engineering And Mechanical Properties Improvement Under The Effect Of EKS Technique At Parit Kuari, Batu Pahat, Johor, West Malaysia. Bulletin of the Geological Society of Malaysia, 2020, 70, 133-138.	0.4	4
42	Surface study of stainless steel electrode deposition from soil electrokinetic (EK) treatment using X-ray photoelectron spectroscopy (XPS). AIP Conference Proceedings, 2015, , .	0.4	3
43	Observation of pH Value in Electrokinetic Remediation using various electrolyte (MgSO ₄ , KH ₂ PO ₄ and) Tj ETQq1 1 0.784314 rgBT /Over Science and Engineering, 2016, 136, 012022.	0.6	3
44	The Physical Behavior of Stabilised Soft Clay by Electrokinetic Stabilisation Technology. Journal of Physics: Conference Series, 2018, 995, 012111.	0.4	3
45	Structural Transformation of Polystyrene Nanosphere Produce Positive and Negative Resists by Controlled Laser Exposure. Advanced Science Letters, 2017, 23, 6613-6617.	0.2	3
46	THE ASSESSMENT OF HEAVY METAL CONCENTRATION IN RIVER BANK SOIL UNDER THE EFFECT OF ELECTROKINETIC-ASSISTED PHYTOREMEDIATION USING XRF AND EDX ANALYSIS. Jurnal Teknologi (Sciences) Tj ETQq0 0 0 rgBT /Overlo	0.4	3
47	An Overview of Electrokinetic Remediation Assisted Phytoremediation to Remediate Barren Acidic Soil. Applied Mechanics and Materials, 2015, 773-774, 1476-1480.	0.2	2
48	Surface adhesion study of La ₂ O ₃ thin film on Si and glass substrate for micro-flexography printing. AIP Conference Proceedings, 2017, , .	0.4	2
49	Growth kinetic and composition of the interfacial layer for RF sputtering Al ₂ O ₃ layer on germanium. Microelectronics International, 2017, 34, 64-68.	0.6	2
50	Investigation of dielectric constant variations for Malaysians soil species towards its natural background dose. IOP Conference Series: Materials Science and Engineering, 2018, 298, 012003.	0.6	2
51	Peat soil stabilization using electrokinetic stabilization (EKS) treatment at Parit Lapis Kadir, Batu Pahat, Johor, Malaysia. IOP Conference Series: Materials Science and Engineering, 2020, 785, 012013.	0.6	2
52	A Preliminary Study of Additional Safety Mechanical Structure for Safety Shoe. Lecture Notes in Mechanical Engineering, 2020, , 577-584.	0.4	2
53	Effects of Post-Deposition Annealing Temperatures on the Composition of Interfacial Layer at Germanium (Ge)/Aluminium Oxide (Al ₂ O ₃). Sains Malaysiana, 2019, 48, 1195-1199.	0.5	2
54	SEM-EDX and AFM analysis for the surface corrosion morphology structure and roughness on embedded X70 external pipeline in acidic soil (peat) environment. Materials Today: Proceedings, 2021, 48, 1929-1929.	1.8	2

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55	Initial stage of corrosion formation for X70 pipeline external surface in acidic soil (peat) environment. <i>Materials Today: Proceedings</i> , 2022, 51, 1381-1387.	1.8	2
56	The <i>Aspergillus niger</i> growth on the treated concrete substrate using variable antifungals. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 160, 012051.	0.6	1
57	Novel Technique to improve the pH of Acidic Barren Soil using Electrokinetic-bioremediation with the application of Vetiver Grass. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 160, 012076.	0.6	1
58	The Soil-Root Strength Performance of <i>Alternanthera Ficoidea</i> and <i>Zoysia Japonica</i> as Green Roof Vegetation. <i>MATEC Web of Conferences</i> , 2017, 103, 04018.	0.2	1
59	The Use of Electrical Resistivity Method to Mapping The Migration of Heavy Metals by Electrokinetic. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 226, 012062.	0.6	1
60	Radionuclides (⁴⁰ K, ²³² Th and ²³⁸ U) and Heavy Metals (Cr, Ni, Cu, Zn, As and Pb) Distribution Assessment at Renggam Landfill, Simpang Renggam, Johor, Malaysia. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 226, 012070.	0.6	1
61	The enhancement of heavy metal removal from polluted river water treatment by integrated carbon-aluminium electrodes using electrochemical method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 298, 012006.	0.6	1
62	The optimization of heating temperature for carbon extraction from peat soil. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 298, 012019.	0.6	1
63	Indoor and Outdoor Surface-Growing Fungi Contamination at Higher Institutional Buildings in a Malaysian University. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 140, 012118.	0.3	1
64	Angle resolve x-ray photoelectron spectroscopy analysis of La ₂ O ₃ thin film of mixed carbon-glass and carbon-silicon substrate for micro-flexographic printing process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 555, 012027.	0.6	1
65	Biochar-coated aluminium electrodes for Cr, Mn and Fe removal in electrochemical treatment for polluted river water remediation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 555, 012011.	0.6	1
66	Study of Ionic Liquids (AIL and PIL) Viscosity and its Functional Groups under Heat Treatment on Cutting Tool Surface Using Fourier-Transform Infrared Spectroscopy (FTIR). <i>Materials Science Forum</i> , 0, 981, 98-103.	0.3	1
67	A study of geo-polymer as alternative material in automotive brake pad. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	1
68	Characterization of Multiple Functional Solid Line of Graphite Ink Surface Printed by Micro-Flexographic. <i>Applied Mechanics and Materials</i> , 0, 752-753, 1379-1383.	0.2	0
69	Soil-roots Strength Performance of Extensive Green Roof by Using <i>Axonopus Compressus</i> . <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 136, 012020.	0.6	0
70	Zn (II) Removal from River Water Samples of Sembrong, Johor State, Malaysia by Electrokinetic Remediation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 226, 012072.	0.6	0
71	Reduction of heavy metal from soil in Bakri Landfill, Muar, Johor by using Electrokinetic method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 226, 012068.	0.6	0
72	Effect of Rainfall Patterns on Concentration Of CO ₂ , Soil Temperature And Matric Suction For Acidic Barren Soil. <i>Journal of Physics: Conference Series</i> , 2018, 1049, 012089.	0.4	0

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73	The Background Dose Assessment of Highly Industrialized Area Used for Building and Construction Purposes in Ogun State, Nigeria. Journal of Physics: Conference Series, 2019, 1299, 012096.	0.4	0
74	Radiological risk assessment in some imported tiles from China and its possible health implication for Nigerian users. Journal of Physics: Conference Series, 2019, 1299, 012091.	0.4	0
75	A study of frequency and pulses for stepper motor controller system by using programmable logic controller. Journal of Physics: Conference Series, 2019, 1150, 012040.	0.4	0
76	Determination of Riverbed Filtration Potential as Water Supply Source using Geoelectrical Method. Journal of Physics: Conference Series, 2019, 1351, 012046.	0.4	0
77	Feasibility Study of Riverbed Filtration Technique at Sungai Kampar Perak by using Numerical Modelling. Journal of Physics: Conference Series, 2019, 1351, 012047.	0.4	0
78	The elemental distribution study of heavy metals (Fe, Cu, Cd, As, Cr, Ni and Hg) in various fish species at local market in Muar, Johor using SEM-EDX. IOP Conference Series: Materials Science and Engineering, 2021, 1106, 012030.	0.6	0
79	Evaluation of Radiological Health Risk Associated with Indian Tiles Available in Nigerian Markets. Advances in Science, Technology and Engineering Systems, 2021, 6, 271-276.	0.5	0
80	Health implication of anion contents in different brands of bottled water samples consumed in some parts of south west Nigeria. , 0, 163, 26-35.		0