Suriani Abu Bakar

List of Publications by Year
in descending order

79 papers	965 citations	516710 16 h-index	526287 27 g-index
79 all docs	79 docs citations	79 times ranked	1255 citing authors

#	Article	IF	Citations
1	Enhanced dispersion of multiwall carbon nanotubes in natural rubber latex nanocomposites by surfactants bearing phenyl groups. Journal of Colloid and Interface Science, 2015, 455, 179-187.	9.4	73
2	Vertically aligned carbon nanotubes synthesized from waste cooking palm oil. Journal of the Ceramic Society of Japan, 2010, 118, 963-968.	1.1	63
3	Toward high production of graphene flakes â€“ a review on recent developments in their synthesis methods and scalability. Journal of Materials Chemistry A, 2018, 6, 15010-15026.	10.3	63
4	A Review of Glucose Biosensors Based on Graphene/Metal Oxide Nanomaterials. Analytical Letters, 2014, 47, 1821-1834.	1.8	53
5	Recent trends in graphene materials synthesized by CVD with various carbon precursors. Journal of Materials Science, 2018, 53, 851-879.	3.7	45
6	Rational design of aromatic surfactants for graphene/natural rubber latex nanocomposites with enhanced electrical conductivity. Journal of Colloid and Interface Science, 2018, 516, 34-47.	9.4	41
7	Preparation of multiwall carbon nanotubes (MWCNTs) stabilised by highly branched hydrocarbon surfactants and dispersed in natural rubber latex nanocomposites. Colloid and Polymer Science, 2014, 292, 3013-3023.	2.1	39
8	Graphene-philic surfactants for nanocomposites in latex technology. Advances in Colloid and Interface Science, 2016, 230, 54-69.	14.7	34
9	Synthesis of nanostructured titanium dioxide layer onto kaolin hollow fibre membrane via hydrothermal method for decolourisation of reactive black 5. Chemosphere, 2018, 208, 595-605.	8.2	30
10	Raman investigation of rutile-phased TiO2 nanorods/nanoflowers with various reaction times using one step hydrothermal method. Journal of Materials Science: Materials in Electronics, 2016, 27, 7920-7926.	2.2	28
11	Synthesis of uniform monolayer graphene on re-solidified copper from waste chicken fat by low pressure chemical vapor deposition. Materials Research Bulletin, 2016, 83, 573-580.	5.2	25
12	Incorporation of Electrochemically Exfoliated Graphene Oxide and TiO2 into Polyvinylidene Fluoride-Based Nanofiltration Membrane for Dye Rejection. Water, Air, and Soil Pollution, 2019, 230, 1.	2.4	20
13	Economical and Efficient Hybrid Surfactant with Low Fluorine Content for the Stabilisation of Water-in-CO2 Microemulsions. Journal of Supercritical Fluids, 2015, 98, 127-136.	3.2	19
14	Electrical enhancement of radiation-vulcanized natural rubber latex added with reduced graphene oxide additives for supercapacitor electrodes. Journal of Materials Science, 2017, 52, 6611-6622.	3.7	19
15	Synthesis, transfer and application of graphene as a transparent conductive film: a review. Bulletin of Materials Science, 2020, 43, 1.	1.7	18
16	Hybrid Organicâ€“Inorganic Perovskite Halide Materials for Photovoltaics towards Their Commercialization. Polymers, 2022, 14, 1059.	4.5	18
17	Reduced graphene oxide-multiwalled carbon nanotubes hybrid film with low Pt loading as counter electrode for improved photovoltaic performance of dye-sensitised solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 10723-10743.	2.2	17
18	Synthesis and nucleation-growth mechanism of almost catalyst-free carbon nanotubes grown from Fe-filled sphere-like graphene-shell surface. Journal of Nanostructure in Chemistry, 2013, 3, 1.	9.1	16

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19	Photocatalytic degradation of methylene blue by flowerlike rutile-phase TiO2 film grown via hydrothermal method. Journal of Sol-Gel Science and Technology, 2022, 102, 637-648.	2.4	16
20	Preparation of conductive cellulose paper through electrochemical exfoliation of graphite: The role of anionic surfactant ionic liquids as exfoliating and stabilizing agents. Carbohydrate Polymers, 2018, 201, 48-59.	10.2	15
21	The Synthesis of Graphene Oxide via Electrochemical Exfoliation Method. Advanced Materials Research, 0, 1109, 55-59.	0.3	14
22	Surfactants with aromatic headgroups for optimizing properties of graphene/natural rubber latex composites (NRL): Surfactants with aromatic amine polar heads. Journal of Colloid and Interface Science, 2019, 545, 184-194.	9.4	14
23	Scaled-up prototype of carbon nanotube production system utilizing waste cooking palm oil precursor and its nanocomposite application as supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2016, 27, 11599-11605.	2.2	13
24	Photocatalytic performance improvement by utilizing GO_MWCNTs hybrid solution on sand/ZnO/TiO2-based photocatalysts to degrade methylene blue dye. Environmental Science and Pollution Research, 2021, 28, 6966-6979.	5.3	13
25	Impact of Thermal Annealing under Nitrogen Ambient on Structural, Micro-Raman, and Thermogravimetric Analyses of Camphoric-CNT. Journal of Spectroscopy, 2013, 2013, 1-6.	1.3	12
26	Effect of surfactant headgroup on low-fluorine-content CO2-philic hybrid surfactants. Journal of Supercritical Fluids, 2016, 116, 148-154.	3.2	12
27	Study on micro-patterning process of vertically aligned carbon nanotubes (VACNTs). Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 88-99.	2.1	12
28	Characterization of Bauxite as a Potential Natural Photocatalyst for Photodegradation of Textile Dye. Arabian Journal for Science and Engineering, 2019, 44, 10031-10040.	3.0	12
29	Synthesis and characterization of mesoporous zinc layered hydroxide-isoprocarb nanocomposite. Journal of Saudi Chemical Society, 2019, 23, 486-493.	5.2	12
30	Electrochemical exfoliation of graphite in nanofibrillated kenaf cellulose (NFC)/surfactant mixture for the development of conductive paper. Carbohydrate Polymers, 2020, 228, 115376.	10.2	10
31	Fabrication of High Performance PVDF Hollow Fiber Membrane Using Less Toxic Solvent at Different Additive Loading and Air Gap. Membranes, 2021, 11, 843.	3.0	10
32	Co-synthesis of large-area graphene and syngas via CVD method from greenhouse gases. Materials Letters, 2018, 227, 132-135.	2.6	9
33	Effect of Surfactantsâ€™ Tail Number on the PVDF/GO/TiO2-Based Nanofiltration Membrane for Dye Rejection and Antifouling Performance Improvement. International Journal of Environmental Research, 2021, 15, 149-161.	2.3	9
34	Carbon nanotubes from waste cooking palm oil as adsorbent materials for the adsorption of heavy metal ions. Environmental Science and Pollution Research, 2021, 28, 65171-65187.	5.3	9
35	Controlled release formulation of an anti-depression drug based on a L-phenylalanate-zinc layered hydroxide intercalation compound. Journal of Physics and Chemistry of Solids, 2017, 105, 35-44.	4.0	8
36	Improved DSSC photovoltaic performance using reduced graphene oxideâ€“carbon nanotube/platinum assisted with customised triple-tail surfactant as counter electrode and zinc oxide nanowire/titanium dioxide nanoparticle bilayer nanocomposite as photoanode. Graphene Technology, 2019, 4, 17-31.	1.9	8

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37	Preparation of zinc layered hydroxide-ferulate and coated zinc layered hydroxide-ferulate nanocomposites for controlled release of ferulic acid. Materials Research Innovations, 2019, 23, 233-245.	2.3	8
38	Highly branched triple-chain surfactant-mediated electrochemical exfoliation of graphite to obtain graphene oxide: colloidal behaviour and application in water treatment. Physical Chemistry Chemical Physics, 2020, 22, 12732-12744.	2.8	8
39	Synthesis and characterisation of zinc hydroxides nitratesâ€“sodium dodecyl sulphate fluazinam nano hosts for release properties. Journal of Porous Materials, 2020, 27, 1467-1479.	2.6	8
40	Polymeric Nanocomposite-Based Herbicide of Carboxymethyl Cellulose Coated-Zinc/Aluminium Layered Double Hydroxide-Quinclorac: A Controlled Release Purpose for Agrochemicals. Journal of Polymers and the Environment, 2021, 29, 1817-1834.	5.0	8
41	The role of amphiphilic chitosan in hybrid nanocelluloseâ€“reinforced polylactic acid biocomposite. Polymers for Advanced Technologies, 2021, 32, 3446-3457.	3.2	8
42	Surfactant-assisted imidacloprid intercalation of layered zinc hydroxide nitrate: synthesis, characterisation and controlled release formulation. Journal of Porous Materials, 2020, 27, 473-486.	2.6	7
43	FABRICATION OF CERAMIC, HOLLOW-FIBER MEMBRANE: THE EFFECT OF BAUXITE CONTENT AND SINTERING TEMPERATURE. Clays and Clay Minerals, 2020, 68, 309-318.	1.3	7
44	Structural, optical, and electrical properties of Ni-doped ZnO nanorod arrays prepared via sonicated sol-gel immersion method. AIP Conference Proceedings, 2018, , .	0.4	6
45	Preparation and characterisation of novel paddy cultivation herbicide nanocomposite from zinc/aluminium layered double hydroxide and quinclorac anion. Materials Research Innovations, 2019, 23, 260-265.	2.3	6
46	The impact of a hygroscopic chitosan coating on the controlled release behaviour of zinc hydroxide nitrateâ€“sodium dodecylsulphateâ€“imidacloprid nanocomposites. New Journal of Chemistry, 2020, 44, 9097-9108.	2.8	6
47	Fabrication and characterization of robust zirconia-kaolin hollow fiber membrane: Alkaline dissolution study in ammonia solution. Korean Journal of Chemical Engineering, 2021, 38, 2446-2460.	2.7	6
48	CVD growth of carbon nanotubes from palm oil precursor. , 2012, , .		5
49	Optimization of a High-Performance Poly(diallyl dimethylammonium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (chloride)-alt Oily Wastewater via Response Surface Methodology Approach. Membranes, 2021, 11, 956.	3.0	5
50	Effect of synthesis time on carbon nanotubes growth from palm oil as carbon source by thermal chemical vapor deposition method. , 2012, , .		4
51	Development of a novel nanocomposite consisting of 3-(4-methoxyphenyl)propionic acid and magnesium layered hydroxide for controlled-release formulation. Journal of Experimental Nanoscience, 2016, 11, 776-797.	2.4	4
52	The effect of ion exchange and co-precipitation methods on the intercalation of 3-(4-methoxyphenyl)propionic acid into layered zinc hydroxide nitrate. Journal of Porous Materials, 2018, 25, 249-258.	2.6	4
53	Fabrication and application of composite adsorbents made by one-pot electrochemical exfoliation of graphite in surfactant ionic liquid/nanocellulose mixtures. Physical Chemistry Chemical Physics, 2021, 23, 19313-19328.	2.8	4
54	The effect of swellable carboxymethyl cellulose coating on the physicochemical stability and release profile of a zinc hydroxide nitrateâ€“sodium dodecylsulphateâ€“imidacloprid. Chemical Physics Impact, 2021, 2, 100017.	3.5	4

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55	Adsorption effect of NO2 on ZnO (100 nm) nanowires, leading towards reduced reverse leakage current and voltage enhancement. Bulletin of Materials Science, 2020, 43, 1.	1.7	3
56	Effects of TiO2 phase and nanostructures as photoanode on the performance of dye-sensitized solar cells. Bulletin of Materials Science, 2021, 44, 1.	1.7	3
57	Functional Properties of Kenaf Bast Fibre Anhydride Modification Enhancement with Bionanocarbon in Polymer Nanobiocomposites. Polymers, 2021, 13, 4211.	4.5	3
58	Low Nickel, Ceria Zirconia-Based Micro-Tubular Solid Oxide Fuel Cell: A Study of Composition and Oxidation Using Hydrogen and Methane Fuel. Sustainability, 2021, 13, 13789.	3.2	3
59	Improvement in photo voltaic performance of rutile-phased TiO2 nanorod/nanoflower-based dye-sensitized solar cell. Journal of the Australian Ceramic Society, 2018, 54, 663-670.	1.9	2
60	Effect of growth time to the properties of Al-doped ZnO nanorod arrays. AIP Conference Proceedings, 2018, , .	0.4	2
61	High responsivity of ultraviolet sensor-based rutile-phased TiO2 nanorod arrays using different bias voltage. Journal of the Australian Ceramic Society, 2020, 56, 461-468.	1.9	2
62	Adsolubilisation of thiacloprid pesticide into the layered zinc hydroxide salt intercalated with dodecyl sulphate, for controlled release formulation. Materials Research Innovations, 2020, 24, 279-288.	2.3	2
63	A guide to designing graphene-philic surfactants. Journal of Colloid and Interface Science, 2022, 620, 346-355.	9.4	2
64	Sn-doped TiO2 nanorod arrays produced by facile one step aqueous chemical route: Structural characterization. AIP Conference Proceedings, 2018, , .	0.4	1
65	Preparation of TNAs/NiO p-n heterojunction and their applications in UV photosensor. AIP Conference Proceedings, 2018, , .	0.4	1
66	Dielectric behavior in erbium-doped tellurite glass for potential high-energy capacitor. Journal of Materials Science: Materials in Electronics, 2019, 30, 18015-18024.	2.2	1
67	Graphene oxide/low ammonia NRL nanocomposite-based electrode in various electrolyte concentrations: electrical properties and capacitive behavior for supercapacitor. Journal of Rubber Research (Kuala Lumpur, Malaysia), 2020, 23, 387-393.	1.1	1
68	ELECTRONIC AND OPTICAL MODIFICATION OF ORGANIC-HYBRID PEROVSKITES. Surface Review and Letters, 2021, 28, 2140010.	1.1	1
69	<scp>Solâ€gel</scp> based copper metallic layer as external anode for microtubular solid oxide fuel cell. International Journal of Energy Research, 0, , .	4.5	1
70	Surface structural variations of nanostructured porous silicon template formed electrochemically of current density parameter. , 2012, , .		0
71	Polyethylene glycol assisted growth of Sn-doped ZnO nanorod arrays prepared via sol-gel immersion method. AIP Conference Proceedings, 2018, , .	0.4	0
72	Synthesis of p-type nickel oxide nanosheets on n-type titanium dioxide nanorod arrays for p-n heterojunction-based UV photosensor. AIP Conference Proceedings, 2018, , .	0.4	0

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73	Effect of the polymeric coating thickness on the photocurrent performance of titanium dioxide nanorod arrays-polyaniline composite-based UV photosensor. AIP Conference Proceedings, 2018, , .	0.4	0
74	Fabrication of Al-doped ZnO nanorod array using different type and thickness of metal contact. AIP Conference Proceedings, 2019, , .	0.4	0
75	UV photoresponsivity of sol-gel derived Al-doped ZnO nanorod array. AIP Conference Proceedings, 2019, , .	0.4	0
76	Effect of SnO2 coating to the properties of ZnO nanorod array. AIP Conference Proceedings, 2019, , .	0.4	0
77	Stability study of triple layer hollow fiber in solid oxide fuel cell with methane as fuel. Ionics, 2020, 26, 3073-3083.	2.4	0
78	Carboxymethyl Cellulose Hydrogel Based Formulations of Zinc Hydroxide Nitrate-Sodium Dodecylsulphate-Bispyribac Nanocomposite: Advancements in Controlled Release Formulation of Herbicide. Journal of Nanoscience and Nanotechnology, 2021, 21, 5867-5880.	0.9	0
79	Electronic and Optical Modification of Organic-hybrid Perovskites. , 2021, , 333-377.		0