

# Suriani Abu Bakar

## List of Publications by Year in descending order

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79  
papers

965  
citations

516710

16  
h-index

526287

27  
g-index

79  
all docs

79  
docs citations

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times ranked

1255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic degradation of methylene blue by flowerlike rutile-phase TiO <sub>2</sub> film grown via hydrothermal method. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 102, 637-648.	2.4	16
2	Hybrid Organic-Inorganic Perovskite Halide Materials for Photovoltaics towards Their Commercialization. <i>Polymers</i> , 2022, 14, 1059.	4.5	18
3	A guide to designing graphene-philic surfactants. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 346-355.	9.4	2
4	Photocatalytic performance improvement by utilizing GO_MWCNTs hybrid solution on sand/ZnO/TiO <sub>2</sub> -based photocatalysts to degrade methylene blue dye. <i>Environmental Science and Pollution Research</i> , 2021, 28, 6966-6979.	5.3	13
5	Polymeric Nanocomposite-Based Herbicide of Carboxymethyl Cellulose Coated-Zinc/Aluminium Layered Double Hydroxide-Quinlorac: A Controlled Release Purpose for Agrochemicals. <i>Journal of Polymers and the Environment</i> , 2021, 29, 1817-1834.	5.0	8
6	Effect of Surfactants' Tail Number on the PVDF/GO/TiO <sub>2</sub> -Based Nanofiltration Membrane for Dye Rejection and Antifouling Performance Improvement. <i>International Journal of Environmental Research</i> , 2021, 15, 149-161.	2.3	9
7	Fabrication and application of composite adsorbents made by one-pot electrochemical exfoliation of graphite in surfactant ionic liquid/nanocellulose mixtures. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19313-19328.	2.8	4
8	Effects of TiO <sub>2</sub> phase and nanostructures as photoanode on the performance of dye-sensitized solar cells. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	3
9	The role of amphiphilic chitosan in hybrid nanocellulose-reinforced polylactic acid biocomposite. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3446-3457.	3.2	8
10	The effect of swellable carboxymethyl cellulose coating on the physicochemical stability and release profile of a zinc hydroxide nitrate-sodium dodecylsulphate-imidacloprid. <i>Chemical Physics Impact</i> , 2021, 2, 100017.	3.5	4
11	Carbon nanotubes from waste cooking palm oil as adsorbent materials for the adsorption of heavy metal ions. <i>Environmental Science and Pollution Research</i> , 2021, 28, 65171-65187.	5.3	9
12	ELECTRONIC AND OPTICAL MODIFICATION OF ORGANIC-HYBRID PEROVSKITES. <i>Surface Review and Letters</i> , 2021, 28, 2140010.	1.1	1
13	Fabrication and characterization of robust zirconia-kaolin hollow fiber membrane: Alkaline dissolution study in ammonia solution. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 2446-2460.	2.7	6
14	Carboxymethyl Cellulose Hydrogel Based Formulations of Zinc Hydroxide Nitrate-Sodium Dodecylsulphate-Bispyribac Nanocomposite: Advancements in Controlled Release Formulation of Herbicide. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 5867-5880.	0.9	0
15	Electronic and Optical Modification of Organic-hybrid Perovskites. , 2021, , 333-377.		0
16	Fabrication of High Performance PVDF Hollow Fiber Membrane Using Less Toxic Solvent at Different Additive Loading and Air Gap. <i>Membranes</i> , 2021, 11, 843.	3.0	10
17	Optimization of a High-Performance Poly(diallyl dimethylammonium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Td (chloride)-salt Oily Wastewater via Response Surface Methodology Approach. <i>Membranes</i> , 2021, 11, 956.	3.0	5
18	Functional Properties of Kenaf Bast Fibre Anhydride Modification Enhancement with Bionanocarbon in Polymer Nanobiocomposites. <i>Polymers</i> , 2021, 13, 4211.	4.5	3

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19	Low Nickel, Ceria Zirconia-Based Micro-Tubular Solid Oxide Fuel Cell: A Study of Composition and Oxidation Using Hydrogen and Methane Fuel. <i>Sustainability</i> , 2021, 13, 13789.	3.2	3
20	High responsivity of ultraviolet sensor-based rutile-phased TiO <sub>2</sub> nanorod arrays using different bias voltage. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 461-468.	1.9	2
21	Electrochemical exfoliation of graphite in nanofibrillated kenaf cellulose (NFC)/surfactant mixture for the development of conductive paper. <i>Carbohydrate Polymers</i> , 2020, 228, 115376.	10.2	10
22	Adsorbilisation of thiachloprid pesticide into the layered zinc hydroxide salt intercalated with dodecyl sulphate, for controlled release formulation. <i>Materials Research Innovations</i> , 2020, 24, 279-288.	2.3	2
23	Surfactant-assisted imidacloprid intercalation of layered zinc hydroxide nitrate: synthesis, characterisation and controlled release formulation. <i>Journal of Porous Materials</i> , 2020, 27, 473-486.	2.6	7
24	Adsorption effect of NO <sub>2</sub> on ZnO (100 nm) nanowires, leading towards reduced reverse leakage current and voltage enhancement. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	3
25	Graphene oxide/low ammonia NRL nanocomposite-based electrode in various electrolyte concentrations: electrical properties and capacitive behavior for supercapacitor. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , 2020, 23, 387-393.	1.1	1
26	Synthesis, transfer and application of graphene as a transparent conductive film: a review. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	18
27	FABRICATION OF CERAMIC, HOLLOW-FIBER MEMBRANE: THE EFFECT OF BAUXITE CONTENT AND SINTERING TEMPERATURE. <i>Clays and Clay Minerals</i> , 2020, 68, 309-318.	1.3	7
28	Highly branched triple-chain surfactant-mediated electrochemical exfoliation of graphite to obtain graphene oxide: colloidal behaviour and application in water treatment. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12732-12744.	2.8	8
29	The impact of a hygroscopic chitosan coating on the controlled release behaviour of zinc hydroxide nitrate-sodium dodecylsulphate-imidacloprid nanocomposites. <i>New Journal of Chemistry</i> , 2020, 44, 9097-9108.	2.8	6
30	Synthesis and characterisation of zinc hydroxides nitrates-sodium dodecyl sulphate fluazinam nano hosts for release properties. <i>Journal of Porous Materials</i> , 2020, 27, 1467-1479.	2.6	8
31	Stability study of triple layer hollow fiber in solid oxide fuel cell with methane as fuel. <i>Ionics</i> , 2020, 26, 3073-3083.	2.4	0
32	Incorporation of Electrochemically Exfoliated Graphene Oxide and TiO <sub>2</sub> into Polyvinylidene Fluoride-Based Nanofiltration Membrane for Dye Rejection. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	2.4	20
33	Characterization of Bauxite as a Potential Natural Photocatalyst for Photodegradation of Textile Dye. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 10031-10040.	3.0	12
34	Fabrication of Al-doped ZnO nanorod array using different type and thickness of metal contact. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
35	UV photoresponsivity of sol-gel derived Al-doped ZnO nanorod array. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
36	Dielectric behavior in erbium-doped tellurite glass for potential high-energy capacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 18015-18024.	2.2	1

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37	Effect of SnO <sub>2</sub> coating to the properties of ZnO nanorod array. AIP Conference Proceedings, 2019, , .	0.4	0
38	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
39	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
40	Synthesis and characterization of mesoporous zinc layered hydroxide-isoprocarb nanocomposite. Journal of Saudi Chemical Society, 2019, 23, 486-493.	5.2	12
41	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
42	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
43	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
44	Improvement in photo voltaic performance of rutile-phased TiO <sub>2</sub> nanorod/nanoflower-based dye-sensitized solar cell. Journal of the Australian Ceramic Society, 2018, 54, 663-670.	1.9	2
45	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
46	Recent trends in graphene materials synthesized by CVD with various carbon precursors. Journal of Materials Science, 2018, 53, 851-879.	3.7	45
47	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
48	Effect of growth time to the properties of Al-doped ZnO nanorod arrays. AIP Conference Proceedings, 2018, , .	0.4	2
49	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
50	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
51	Sn-doped TiO <sub>2</sub> nanorod arrays produced by facile one step aqueous chemical route: Structural characterization. AIP Conference Proceedings, 2018, , .	0.4	1
52	Polyethylene glycol assisted growth of Sn-doped ZnO nanorod arrays prepared via sol-gel immersion method. AIP Conference Proceedings, 2018, , .	0.4	0
53	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
54	Co-synthesis of large-area graphene and syngas via CVD method from greenhouse gases. Materials Letters, 2018, 227, 132-135.	2.6	9

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55	Preparation of conductive cellulose paper through electrochemical exfoliation of graphite: The role of anionic surfactant ionic liquids as exfoliating and stabilizing agents. <i>Carbohydrate Polymers</i> , 2018, 201, 48-59.	10.2	15
56	Synthesis of p-type nickel oxide nanosheets on n-type titanium dioxide nanorod arrays for p-n heterojunction-based UV photosensor. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
57	Effect of the polymeric coating thickness on the photocurrent performance of titanium dioxide nanorod arrays-polyaniline composite-based UV photosensor. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
58	Preparation of TNAs/NiO p-n heterojunction and their applications in UV photosensor. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
59	Controlled release formulation of an anti-depression drug based on a L-phenylalanate-zinc layered hydroxide intercalation compound. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 105, 35-44.	4.0	8
60	Electrical enhancement of radiation-vulcanized natural rubber latex added with reduced graphene oxide additives for supercapacitor electrodes. <i>Journal of Materials Science</i> , 2017, 52, 6611-6622.	3.7	19
61	Raman investigation of rutile-phased TiO <sub>2</sub> nanorods/nanoflowers with various reaction times using one step hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 7920-7926.	2.2	28
62	Effect of surfactant headgroup on low-fluorine-content CO <sub>2</sub> -philic hybrid surfactants. <i>Journal of Supercritical Fluids</i> , 2016, 116, 148-154.	3.2	12
63	Development of a novel nanocomposite consisting of 3-(4-methoxyphenyl)propionic acid and magnesium layered hydroxide for controlled-release formulation. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 776-797.	2.4	4
64	Scaled-up prototype of carbon nanotube production system utilizing waste cooking palm oil precursor and its nanocomposite application as supercapacitor electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 11599-11605.	2.2	13
65	Synthesis of uniform monolayer graphene on re-solidified copper from waste chicken fat by low pressure chemical vapor deposition. <i>Materials Research Bulletin</i> , 2016, 83, 573-580.	5.2	25
66	Graphene-philic surfactants for nanocomposites in latex technology. <i>Advances in Colloid and Interface Science</i> , 2016, 230, 54-69.	14.7	34
67	Study on micro-patterning process of vertically aligned carbon nanotubes (VACNTs). <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 88-99.	2.1	12
68	Enhanced dispersion of multiwall carbon nanotubes in natural rubber latex nanocomposites by surfactants bearing phenyl groups. <i>Journal of Colloid and Interface Science</i> , 2015, 455, 179-187.	9.4	73
69	Economical and Efficient Hybrid Surfactant with Low Fluorine Content for the Stabilisation of Water-in-CO <sub>2</sub> Microemulsions. <i>Journal of Supercritical Fluids</i> , 2015, 98, 127-136.	3.2	19
70	Preparation of multiwall carbon nanotubes (MWCNTs) stabilised by highly branched hydrocarbon surfactants and dispersed in natural rubber latex nanocomposites. <i>Colloid and Polymer Science</i> , 2014, 292, 3013-3023.	2.1	39
71	A Review of Glucose Biosensors Based on Graphene/Metal Oxide Nanomaterials. <i>Analytical Letters</i> , 2014, 47, 1821-1834.	1.8	53
72	Synthesis and nucleation-growth mechanism of almost catalyst-free carbon nanotubes grown from Fe-filled sphere-like graphene-shell surface. <i>Journal of Nanostructure in Chemistry</i> , 2013, 3, 1.	9.1	16

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73	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
74	Surface structural variations of nanostructured porous silicon template formed electrochemically of current density parameter. , 2012, , .		0
75	CVD growth of carbon nanotubes from palm oil precursor. , 2012, , .		5
76	Effect of synthesis time on carbon nanotubes growth from palm oil as carbon source by thermal chemical vapor deposition method. , 2012, , .		4
77	Vertically aligned carbon nanotubes synthesized from waste cooking palm oil. Journal of the Ceramic Society of Japan, 2010, 118, 963-968.	1.1	63
78	The Synthesis of Graphene Oxide via Electrochemical Exfoliation Method. Advanced Materials Research, 0, 1109, 55-59.	0.3	14
79	<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