

Poi Sim Khiew

List of Publications by Year in descending order

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83
papers

2,955
citations

168829

31
h-index

198040

52
g-index

83
all docs

83
docs citations

83
times ranked

4838
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced adsorption of anionic phenol red using cationic polyethylenimine-incorporated chitosan beads. <i>Journal of Porous Materials</i> , 2022, 29, 609-619.	1.3	5
2	State-of-the-Art Advances, Development, and Challenges of Metal Oxide Semiconductor Nanomaterials for Photothermal Solar Steam Generation. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	38
3	One dimensional MnV2O6 nanobelts on graphene as outstanding electrode material for high energy density symmetric supercapacitor. <i>Ceramics International</i> , 2021, 47, 9560-9568.	2.3	25
4	Zinc oxide-filled polyvinyl alcohol-cellulose nanofibril aerogel nanocomposites for catalytic decomposition of an organic dye in aqueous solution. <i>Cellulose</i> , 2021, 28, 2241-2253.	2.4	15
5	Development of Thermally Responsive PolyNIPAm Microcarrier for Application of Cell Culturing-Part I: A Feasibility Study. <i>Polymers</i> , 2021, 13, 2629.	2.0	3
6	Advances in Nanomaterials Used in Co-Delivery of siRNA and Small Molecule Drugs for Cancer Treatment. <i>Nanomaterials</i> , 2021, 11, 2467.	1.9	13
7	A mechanistic study of silver nanostructure incorporating reduced graphene oxide <i>via</i> a flow synthesis approach. <i>New Journal of Chemistry</i> , 2020, 44, 1439-1445.	1.4	4
8	Mesoporous Zinc-Nickel-Cobalt nanocomposites anchored on graphene as electrodes for electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152646.	2.8	12
9	Three-dimensional lion's mane like AlV3O9 deposited on graphene surface for supercapacitors with a promising electrochemical performance. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 164-172.	1.5	3
10	Photodeposition of Ag Nanocrystals onto TiO2 Nanotube Platform for Enhanced Water Splitting and Hydrogen Gas Production. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-11.	1.5	4
11	Copper Nanowires as Highly Efficient and Recyclable Catalyst for Rapid Hydrogen Generation from Hydrolysis of Sodium Borohydride. <i>Nanomaterials</i> , 2020, 10, 1153.	1.9	20
12	Recent Advances on Metal Organic Frameworks and Its Derivatives as Efficient Electrodes for Electrochemical Energy Storage. , 2020, , .		0
13	A facile synthesis of graphene/Co3V2O8 nanocomposites and their enhanced charge storage performance in electrochemical capacitors. <i>Journal of Science: Advanced Materials and Devices</i> , 2019, 4, 515-523.	1.5	10
14	Facile synthesis of graphene-Zn3V2O8 nanocomposite as a high performance electrode material for symmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 784, 847-858.	2.8	46
15	Highly stable binder free CNTs/rGO aerogel electrode for decolouration of methylene blue & palm oil mill effluent via electro-Fenton oxidation process. <i>RSC Advances</i> , 2019, 9, 16472-16478.	1.7	15
16	Fabrication and preliminary in vitro evaluation of ultraviolet-crosslinked electrospun fish scale gelatin nanofibrous scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 62.	1.7	16
17	A cobalt oxide nanocubes interleaved reduced graphene oxide nanocomposite modified glassy carbon electrode for amperometric detection of serotonin. <i>Materials Science and Engineering C</i> , 2019, 100, 388-395.	3.8	41
18	Ice-templated graphene oxide/chitosan aerogel as an effective adsorbent for sequestration of metanil yellow dye. <i>Bioresource Technology</i> , 2019, 274, 134-144.	4.8	99

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19	Recent development of mixed transition metal oxide and graphene/mixed transition metal oxide based hybrid nanostructures for advanced supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 775, 1324-1356.	2.8	240
20	Review on synthesis of 3D graphene-based configurations and their adsorption performance for hazardous water pollutants. <i>Chemical Engineering Research and Design</i> , 2018, 116, 262-286.	2.7	124
21	One-step green hydrothermal synthesis of biocompatible graphene/TiO ₂ nanocomposites for non-enzymatic H ₂ O ₂ detection and their cytotoxicity effects on human keratinocyte and lung fibroblast cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1195-1206.	2.9	14
22	An electrochemical sensing platform of cobalt oxide@gold nanocubes interleaved reduced graphene oxide for the selective determination of hydrazine. <i>Electrochimica Acta</i> , 2018, 259, 606-616.	2.6	69
23	Aging- and thermal-annealing effects on the vibrational- and microstructural-properties of PECVD grown hydrogenated amorphous silicon carbon nitride thin films. <i>Vibrational Spectroscopy</i> , 2018, 94, 22-30.	1.2	9
24	Facile solvothermal designing of graphene/Ni ₃ V ₂ O ₈ nanocomposite as electrode for high performance symmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2018, 768, 995-1005.	2.8	35
25	A Disposable Electrochemical Sensing Platform for Acetaminophen Based on Graphene/ZrO ₂ Nanocomposite Produced via a Facile, Green Synthesis Method. <i>IEEE Sensors Journal</i> , 2018, 18, 7907-7916.	2.4	14
26	Design and Implementation of Dialysate Temperature Control System for Hemodialysis: A Pilot Study. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 1-10.	0.3	0
27	Enhanced marine antifouling performance of silver-titania nanotube composites from hydrothermal processing. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 520, 701-711.	2.3	30
28	Sensitivity enhancement of graphene/zinc oxide nanocomposite-based electrochemical impedance genosensor for single stranded RNA detection. <i>Biosensors and Bioelectronics</i> , 2017, 94, 365-373.	5.3	53
29	Multi-phase structured hydrogenated amorphous silicon carbon nitride thin films grown by plasma enhanced chemical vapour deposition. <i>Journal of Alloys and Compounds</i> , 2017, 721, 70-79.	2.8	13
30	Understanding the effect of plasmonic enhancement on photocatalytic activity of TiO ₂ nanotube arrays. <i>Materials Characterization</i> , 2017, 128, 134-141.	1.9	11
31	Solvothermal synthesis of molybdenum oxide on liquid-phase exfoliated graphene composite electrodes for aqueous supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 6907-6918.	1.1	13
32	3D hyperbranched heterostructures of Ag nanocrystals-decorated ZnO nanopillars: controlled growth and characterization of the optical properties. <i>CrystEngComm</i> , 2017, 19, 5591-5603.	1.3	11
33	Synthesis of NiMoO ₄ nanorods on graphene and superior electrochemical performance of the resulting ternary based composites. <i>Ceramics International</i> , 2017, 43, 13772-13780.	2.3	46
34	Solvothermal synthesis of NiCo ₂ O ₄ nanocomposites on liquid-phase exfoliated graphene as an electrode material for electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2017, 693, 1133-1142.	2.8	36
35	Hydrothermal Growth of 1D ZnO Nanorods Thin Films for Hydrogen Gas Production through Water Splitting Reaction. <i>Solid State Phenomena</i> , 2017, 264, 95-98.	0.3	1
36	SnO ₂ Nanoparticles Decorated 2D Wavy Hierarchical Carbon Nanowalls with Enhanced Photoelectrochemical Performance. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-11.	1.5	3

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37	One Step Green Preparation of Graphene/ZnO Nanocomposite for Electrochemical Sensing. Journal of Nanoscience and Nanotechnology, 2016, 16, 7420-7426.	0.9	12
38	Structural- and optical-properties analysis of single crystalline hematite (Fe_2O_3) nanocubes prepared by one-pot hydrothermal approach. CrystEngComm, 2016, 18, 4720-4732.	1.3	78
39	Tin stearate organometallic precursor prepared SnO ₂ quantum dots nanopowder for aqueous- and non-aqueous medium photocatalytic hydrogen gas evolution. Journal of Energy Chemistry, 2016, 25, 691-701.	7.1	14
40	Green synthesis of graphene-silver nanocomposites and its application as a potent marine antifouling agent. Colloids and Surfaces B: Biointerfaces, 2016, 148, 392-401.	2.5	38
41	Cobalt oxide nanoparticles grown on exfoliated graphene for enhanced electrochemical performance. Materials Chemistry and Physics, 2016, 183, 56-64.	2.0	11
42	Green and Facile Synthesis of Molybdenum Oxide-Graphene Composite Electrodes for Supercapacitor Application. Materials Science Forum, 2016, 863, 90-94.	0.3	1
43	ZnO nanonails: Organometallic synthesis, self-assembly and enhanced hydrogen gas production. Materials Science in Semiconductor Processing, 2016, 56, 228-237.	1.9	17
44	A Proof of Concept: Detection of Avian Influenza H5N1 Gene by a Graphene-Enhanced Electrochemical Genosensor. Journal of Nanoscience and Nanotechnology, 2016, 16, 2438-2446.	0.9	13
45	Facile hydrothermal growth graphene/ZnO nanocomposite for development of enhanced biosensor. Analytica Chimica Acta, 2016, 903, 131-141.	2.6	76
46	The design of new magnetic-photocatalyst nanocomposites ($\text{CoFe}_2\text{O}_4/\text{TiO}_2$) as smart nanomaterials for recyclable-photocatalysis applications. New Journal of Chemistry, 2016, 40, 1124-1136.	1.4	62
47	A Facile One-Step Green Synthesis of Graphene by Mild Solvent Exfoliation. Science of Advanced Materials, 2016, 8, 1177-1186.	0.1	3
48	Structural- and optical-property characterization of three-dimensional branched ZnO nanospikes. Materials Characterization, 2015, 106, 185-194.	1.9	13
49	Solvothermal synthesis of graphene-MnO ₂ nanocomposites and their electrochemical behavior. Ceramics International, 2015, 41, 11418-11427.	2.3	56
50	A bio-electrochemical sensing platform for glucose based on irreversible, non-covalent $\pi-\pi$ functionalization of graphene produced via a novel, green synthesis method. Sensors and Actuators B: Chemical, 2015, 210, 558-565.	4.0	43
51	CaCO ₃ -decorated cellulose aerogel for removal of Congo Red from aqueous solution. Cellulose, 2015, 22, 2683-2691.	2.4	54
52	Low temperature, rapid solution growth of antifouling silver-zeolite nanocomposite clusters. Microporous and Mesoporous Materials, 2015, 218, 69-78.	2.2	24
53	Facile synthesis of a Ag/MoS ₂ nanocomposite photocatalyst for enhanced visible-light driven hydrogen gas evolution. Catalysis Science and Technology, 2015, 5, 4133-4143.	2.1	95
54	One-step green synthesis of graphene/ZnO nanocomposites for electrochemical capacitors. Ceramics International, 2015, 41, 715-724.	2.3	90

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55	One-step green synthesis of graphene/ZnO nanocomposites for non-enzymatic hydrogen peroxide sensing. <i>Materiali in Tehnologije</i> , 2015, 49, 837-840.	0.3	4
56	Electrochemical studies on nanometal oxide-activated carbon composite electrodes for aqueous supercapacitors. <i>Functional Materials Letters</i> , 2014, 07, 1440012.	0.7	21
57	Heat-Treated Fe ₃ O ₄ - Activated Carbon Nanocomposite for High Performance Electrochemical Capacitor. <i>Advanced Materials Research</i> , 2014, 894, 349-354.	0.3	1
58	A novel one step synthesis of graphene via sonochemical-assisted solvent exfoliation approach for electrochemical sensing application. <i>Chemical Engineering Journal</i> , 2014, 249, 270-278.	6.6	72
59	Facile synthesis of flower-like PbO as a precursor to form nanodendritic PbO ₂ for positive active material (PAM) of lead-acid electrochemical storage devices. <i>Materials Letters</i> , 2014, 128, 97-100.	1.3	12
60	Self-assembly and secondary nucleation in ZnO nanostructures derived from a lipophilic precursor. <i>CrystEngComm</i> , 2014, 16, 6003-6009.	1.3	12
61	Potent antifouling silver-polymer nanocomposite microspheres using ion-exchange resin as templating matrix. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 457, 382-391.	2.3	18
62	Charge storage performance of lithiated iron phosphate/activated carbon composite as symmetrical electrode for electrochemical capacitor. <i>Current Applied Physics</i> , 2014, 14, 1564-1575.	1.1	13
63	Cationic and anionic modifications of oil palm empty fruit bunch fibers for the removal of dyes from aqueous solutions. <i>Bioresource Technology</i> , 2013, 128, 571-577.	4.8	110
64	Morphological studies of randomized dispersion magnetite nanoclusters coated with silica. <i>Ceramics International</i> , 2011, 37, 451-464.	2.3	29
65	Citric acid modified kenaf core fibres for removal of methylene blue from aqueous solution. <i>Bioresource Technology</i> , 2011, 102, 7237-7243.	4.8	193
66	Removal of Copper(II) Ions from Aqueous Solution Using Alkali-Treated Kenaf Core Fibres. <i>Adsorption Science and Technology</i> , 2010, 28, 377-386.	1.5	12
67	Sucrose ester micellar-mediated synthesis of Ag nanoparticles and the antibacterial properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 353, 69-76.	2.3	67
68	Heterogeneous Seeded Growth: Synthesis and Characterization of Bifunctional Fe ₃ O ₄ /ZnO Core/Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8212-8218.	1.5	79
69	Synthesis and characterization of ultra small PbS nanorods in sucrose ester microemulsion. <i>Materials Letters</i> , 2009, 63, 500-503.	1.3	16
70	Fabrication and characterization of 1D brushite nanomaterials via sucrose ester reverse microemulsion. <i>Ceramics International</i> , 2009, 35, 2891-2897.	2.3	23
71	One-pot preparation of three-component oil-in-water high internal phase emulsions stabilized by palm-based laureth surfactants and their moisturizing properties. <i>Colloid Journal</i> , 2009, 71, 660-667.	0.5	3
72	Preparation and characterization of brushite crystals using high internal phase emulsion. <i>Colloid Journal</i> , 2009, 71, 793-802.	0.5	5

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73	Three-Component Olive Oil-In-Water High Internal Phase Emulsions Stabilized by Palm Surfactant and Their Moisturizing Properties. <i>Journal of Dispersion Science and Technology</i> , 2009, 31, 95-101.	1.3	4
74	Tunable coercivity of CoFe ₂ O ₄ nanoparticles via thermal annealing treatment. <i>Journal of Alloys and Compounds</i> , 2008, 459, 291-297.	2.8	84
75	One pot synthesis of monodisperse Fe ₃ O ₄ nanocrystals by pyrolysis reaction of organometallic compound. <i>Materials Chemistry and Physics</i> , 2007, 106, 231-235.	2.0	42
76	Preparation and characterization of ZnS nanoparticles synthesized from chitosan laurate micellar solution. <i>Materials Letters</i> , 2005, 59, 989-993.	1.3	41
77	Synthesis and characterization of copper sulfide nanoparticles in hexagonal phase lyotropic liquid crystal. <i>Journal of Crystal Growth</i> , 2004, 268, 227-237.	0.7	29
78	In situ templating of PbS nanorods in reverse hexagonal liquid crystal. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 247, 55-60.	2.3	16
79	Synthesis of NiS nanoparticles using a sugar-ester nonionic water-in-oil microemulsion. <i>Materials Letters</i> , 2004, 58, 762-767.	1.3	66
80	Synthesis and characterization of conducting polyaniline-coated cadmium sulphide nanocomposites in reverse microemulsion. <i>Materials Letters</i> , 2004, 58, 516-521.	1.3	125
81	Studies on the growth and characterization of CdS and PbS nanoparticles using sugar-ester nonionic water-in-oil microemulsion. <i>Journal of Crystal Growth</i> , 2003, 254, 235-243.	0.7	61
82	LiFePO ₄ - Activated Carbon Composite Electrode as Symmetrical Electrochemical Capacitor in Mild Aqueous Electrolyte. <i>Applied Mechanics and Materials</i> , 0, 627, 3-6.	0.2	2
83	The Photodegradation of Organic Compounds by ZnO Nanopowder. <i>Advanced Materials Research</i> , 0, 895, 547-557.	0.3	4