Nurhidayatullaili Binti Muhd Julkapli

List of Publications by Year
in descending order

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80	3,271	257450	155660
papers	citations	24 h-index	55 g-index

85	85	85	5449
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Graphene supported heterogeneous catalysts: An overview. International Journal of Hydrogen Energy, 2015, 40, 948-979.	7.1	412
2	Catalytic conversion of biodiesel derived raw glycerol to value added products. Renewable and Sustainable Energy Reviews, 2015, 41, 113-127.	16.4	293
3	Effects of Engineered Nanomaterials on Plants Growth: An Overview. Scientific World Journal, The, 2014, 2014, 1-28.	2.1	274
4	Titanium Dioxide as a Catalyst Support in Heterogeneous Catalysis. Scientific World Journal, The, 2014, 2014, 1-21.	2.1	262
5	Recent Advances in Heterogeneous Photocatalytic Decolorization of Synthetic Dyes. Scientific World Journal, The, 2014, 2014, 1-25.	2.1	255
6	Grapheneâ€“Gold Nanoparticles Hybridâ€”Synthesis, Functionalization, and Application in a Electrochemical and Surface-Enhanced Raman Scattering Biosensor. Materials, 2016, 9, 406.	2.9	166
7	Identification of meat origin in food productsâ€“A review. Food Control, 2016, 68, 379-390.	5.5	96
8	Modified iron oxide nanomaterials: Functionalization and application. Journal of Magnetism and Magnetic Materials, 2016, 416, 117-133.	2.3	85
9	Effect on different TiO2 photocatalyst supports on photodecolorization of synthetic dyes: a review. International Journal of Environmental Science and Technology, 2019, 16, 547-566.	3.5	85
10	Review on ZnO hybrid photocatalyst: impact on photocatalytic activities of water pollutant degradation. Reviews in Inorganic Chemistry, 2016, 36, .	4.1	67
11	Graphene oxide and gold nanoparticle based dual platform with short DNA probe for the PCR free DNA biosensing using surface-enhanced Raman scattering. Biosensors and Bioelectronics, 2019, 131, 214-223.	10.1	64
12	Mitigation of pollutants by chitosan/metallic oxide photocatalyst: A review. Journal of Cleaner Production, 2020, 261, 121190.	9.3	60
13	Magnesium oxide as a heterogeneous catalyst support. Reviews in Inorganic Chemistry, 2016, 36, 1-41.	4.1	56
14	Preparation, Properties and Applications of Chitosan-Based Biocomposites/Blend Materials: A Review. Composite Interfaces, 2011, 18, 449-507.	2.3	51
15	Progress on nanocrystalline cellulose biocomposites. Reactive and Functional Polymers, 2017, 112, 9-21.	4.1	51
16	Graphene metal nanocomposites â€” Recent progress in electrochemical biosensing applications. Journal of Industrial and Engineering Chemistry, 2018, 59, 425-439.	5.8	51
17	Surface modification of Carbon-Based Nanoadsorbents for the Advanced Wastewater Treatment. Journal of Molecular Structure, 2021, 1235, 130148.	3.6	43
18	Functionalized Activated Carbon Derived from Biomass for Photocatalysis Applications Perspective. International Journal of Photoenergy, 2015, 2015, 1-30.	2.5	39

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19	Thermal Properties of Kenaf-Filled Chitosan Biocomposites. Polymer-Plastics Technology and Engineering, 2010, 49, 147-153.	1.9	36
20	Understanding the effect of synthesis parameters on the catalytic ionic liquid hydrolysis process of cellulose nanocrystals. Cellulose, 2017, 24, 2469-2481.	4.9	36
21	Developments in nano-additives for paper industry. Journal of Wood Science, 2016, 62, 117-130.	1.9	35
22	X-Ray Diffraction Studies of Cross Linked Chitosan With Different Cross Linking Agents For Waste Water Treatment Application. AIP Conference Proceedings, 2010, , .	0.4	33
23	Development of catalyst complexes for upgrading biomass into ester-based biolubricants for automotive applications: a review. RSC Advances, 2018, 8, 5559-5577.	3.6	27
24	Nanocellulose reinforced as green agent in polymer matrix composites applications. Polymers for Advanced Technologies, 2018, 29, 1531-1546.	3.2	26
25	Gold-graphene oxide nanohybrids: A review on their chemical catalysis. Journal of Industrial and Engineering Chemistry, 2020, 83, 1-13.	5.8	25
26	TiO2 hybrid photocatalytic systems: impact of adsorption and photocatalytic performance. Reviews in Inorganic Chemistry, 2015, 35, 151-178.	4.1	24
27	Magnetite hybrid photocatalysis: advance environmental remediation. Reviews in Inorganic Chemistry, 2016, 36, .	4.1	24
28	Grapheneâ€“ gold based nanocomposites applications in cancer diseases; Efficient detection and therapeutic tools. European Journal of Medicinal Chemistry, 2017, 139, 349-366.	5.5	24
29	Degradability of kenaf dust-filled chitosan biocomposites. Materials Science and Engineering C, 2008, 28, 1100-1111.	7.3	23
30	Synergistic effects on hydrogenated TiO2 for photodegradation of synthetic compounds pollutants. International Journal of Hydrogen Energy, 2016, 41, 14652-14664.	7.1	23
31	Mixed-phase TiO2 photocatalysis: correlation between phase composition and photodecomposition of water pollutants. Reviews in Inorganic Chemistry, 2017, 37, 11-28.	4.1	23
32	Reinforcement effect of nanocellulose on thermal stability of nitrile butadiene rubber (NBR) composites. Journal of Applied Polymer Science, 2018, 135, 46594.	2.6	23
33	Cerium(IV) oxide nanocomposites: Catalytic properties and industrial application. Journal of Rare Earths, 2021, 39, 129-139.	4.8	23
34	Room temperature synthesis of TiO 2 supported chitosan photocatalyst: Study on physicochemical and adsorption photo-decolorization properties. Materials Research Bulletin, 2017, 86, 24-29.	5.2	22
35	A correlation on ultrasonication with nanocrystalline cellulose characteristics. Carbohydrate Polymers, 2020, 246, 116553.	10.2	22
36	Dual platform based sandwich assay surface-enhanced Raman scattering DNA biosensor for the sensitive detection of food adulteration. Analyst, The, 2020, 145, 1414-1426.	3.5	21

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37	Effective adsorption and photodegradation of methyl orange by TiO₂-chitosan supported glass plate photocatalysis. Materials Technology, 2017, 32, 256-264.	3.0	20
38	Swelling behavior and chemical stability of chitosan/nanocellulose biocomposites. Polymer Composites, 2018, 39, E561.	4.6	19
39	Influence of a Plasticizer on the Mechanical Properties of Kenaf-Filled Chitosan Bio-Composites. Polymer-Plastics Technology and Engineering, 2010, 49, 944-951.	1.9	17
40	Influence of Crosslinking Density on Antioxidant Nanocellulose in Bio-degradation and Mechanical Properties of Nitrile Rubber Composites. Fibers and Polymers, 2019, 20, 165-176.	2.1	17
41	Fatty acid coated iron oxide nanoparticle: Effect on stability, particle size and magnetic properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 606, 125371.	4.7	17
42	Controlled acid catalyzed sol gel for the synthesis of highly active TiO2-chitosan nanocomposite and its corresponding photocatalytic activity. Environmental Science and Pollution Research, 2016, 23, 23158-23168.	5.3	15
43	Nano-diamond based photocatalysis for solar hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 31538-31554.	7.1	15
44	Preparation and properties of kenaf dust-filled chitosan biocomposites. Composite Interfaces, 2008, 15, 851-866.	2.3	14
45	Influence of Hydrophobicity of Acetylated Nanocellulose on the Mechanical Performance of Nitrile Butadiene Rubber (NBR) Composites. Fibers and Polymers, 2018, 19, 383-392.	2.1	14
46	Effect of hybridization on the value-added activated carbon materials. International Journal of Industrial Chemistry, 2016, 7, 249-264.	3.1	13
47	Response surface approach for visible light assisted photocatalytic degradation of ortho nitrophenol by magnetically separable TiO2/CS nanocomposite. Materials Science in Semiconductor Processing, 2019, 99, 34-43.	4.0	13
48	Visible light active TiO2/CS/Fe3O4 for nitrophenol degradation: Studying impact of TiO2, CS and Fe3O4 loading on the optical and photocatalytic performance of nanocomposite. Materials Science in Semiconductor Processing, 2021, 131, 105891.	4.0	13
49	DNA/Nano based advanced genetic detection tools for authentication of species: Strategies, prospects and limitations. Molecular and Cellular Probes, 2021, 59, 101758.	2.1	13
50	Effect of magnetic and thermal properties of iron oxide nanoparticles (IONs) in nitrile butadiene rubber (NBR) latex. Journal of Magnetism and Magnetic Materials, 2015, 395, 173-179.	2.3	11
51	Goldâ€“Carbon Nanocomposites for Environmental Contaminant Sensing. Micromachines, 2021, 12, 719.	2.9	11
52	Application of Graphitic Bio-Carbon using Two-Level Factorial Design for Microwave-assisted Carbonization. BioResources, 2016, 11, .	1.0	11
53	SYNTHESIS AND CHARACTERIZATION OF NANOCRYSTALLINE CELLULOSE AS REINFORCEMENT IN NITRILE BUTADIENE RUBBER COMPOSITES. Cellulose Chemistry and Technology, 2020, 54, 11-25.	1.2	11
54	Incorporation of chitosan and glass substrate for improvement in adsorption, separation, and stability of TiO2 photodegradation. International Journal of Environmental Science and Technology, 2016, 13, 865-874.	3.5	10

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55	Gold hybrid nanomaterials: Prospective on photocatalytic activities for wastewater treatment application. Materials Chemistry and Physics, 2020, 241, 122415.	4.0	10
56	X-Ray Powder Diffraction (XRD) Studies on Kenaf Dust Filled Chitosan Bio-composites. AIP Conference Proceedings, 2008, , .	0.4	9
57	Evaluation of Cross-Linked Chitosan as Filler for Thermal Properties of Chitosan-Based Biocomposites. Polymer-Plastics Technology and Engineering, 2013, 52, 806-813.	1.9	9
58	A study on growth formation of nano-sized magnetite Fe₃O₄ via co-precipitation method. Materials Research Innovations, 2014, 18, S6-457-S6-461.	2.3	9
59	Mo3VOx catalyst in biomass conversion: A review in structural evolution and reaction pathways. International Journal of Hydrogen Energy, 2017, 42, 2116-2126.	7.1	9
60	Physico-chemical characteristics of nanocellulose at the variation of catalytic hydrolysis process. Heliyon, 2021, 7, e07267.	3.2	9
61	Photoactive of Chitosan-ZrO2/TiO2 thin film in catalytic degradation of malachite green dyes by solar light. Optical Materials, 2022, 124, 111967.	3.6	8
62	Preparation and characterization of 1,2,4,5-benzenetetra carboxylic-chitosan. E-Polymers, 2010, 10, .	3.0	7
63	Evaluation of Cross-Linked Chitosan as Filler on Mechanical Properties of Chitosan-Based Bio-Composites. Polymer-Plastics Technology and Engineering, 2012, 51, 333-339.	1.9	7
64	Thermal properties of 4,4-oxydiphathalic anhydride chitosan filled chitosan bio-composites. Journal of Thermal Analysis and Calorimetry, 2012, 107, 365-376.	3.6	7
65	Bio-nanocomposites from Natural Fibre Derivatives: Manufacturing and Properties. , 2015, , 233-265.		7
66	Polymers for catalysis in water purification. Polymers for Advanced Technologies, 2018, 29, 701-707.	3.2	6
67	Mechanical properties of 1,2,4,5â€benzene tetra carboxylic chitosanâ€filled chitosan biocomposites. Journal of Applied Polymer Science, 2011, 121, 111-126.	2.6	5
68	Photocatalytic activities and photoinduced fusion of gold-modified titania nanoparticle. Reviews in Inorganic Chemistry, 2017, 37, 95-103.	4.1	5
69	Simultaneous detection of dual food adulterants using graphene oxide and gold nanoparticle based surface enhanced Raman scattering duplex DNA biosensor. Vibrational Spectroscopy, 2021, 116, 103293.	2.2	5
70	Effects of different pH medium on swelling properties of 1,2,4,5-benzenetetracarboxylic-chitosan-filled chitosan bio-composites. Polymer Bulletin, 2011, 67, 291-320.	3.3	4
71	Supramolecular assembly and spectroscopic characterization of indolenineâ€“barbituric acid zwitterions. New Journal of Chemistry, 2021, 45, 1221-1230.	2.8	4
72	Incorporation of Chitosan and Glass Substrate for Improvement on Adsorption, Separation and Stability of Tio2 Photocatalysis. International Journal of Natural Sciences Research, 2016, 4, 6-14.	0.4	4

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73	Catalytic Conversion on Lignocellulose to Biodiesel Product. Green Chemistry and Sustainable Technology, 2017, , 207-229.	0.7	2
74	Biomass-Derived Activated Carbon. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 162-199.	0.4	2
75	Chitosan: Biopolymer Products. , 0, , 1635-1647.		1
76	Photoactive chitosanâ€“titania multilayer assembly for oxidative dye degradation. Journal of Materials Science, 2022, 57, 12377-12392.	3.7	1
77	Solar-Driven, Highly Stable Photocatalyst System for Mitigation of Organic Pollutants via Mixed Phase Titania. Green Energy and Technology, 2018, , 87-104.	0.6	0
78	Surface Modification of Titania/Gold Nanoparticles for Photocatalytic Applications. Green Energy and Technology, 2018, , 25-35.	0.6	0
79	Layered Catalyst Compositions for Photo-Treating of Industrial Effluents. Green Energy and Technology, 2018, , 105-116.	0.6	0
80	Enhanced Photocatalytic Activity by Using Modification Activated Carbon. Green Energy and Technology, 2018, , 1-23.	0.6	0