

Anyarat Watthanaphanit

List of Publications by Year in descending order

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34
papers

1,081
citations

471509

17
h-index

434195

31
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34
all docs

34
docs citations

34
times ranked

1620
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of Chitosan-Coated Polyethylene Packaging Films by DBD Plasma Treatment. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2474-2482.	8.0	139
2	Fabrication, structure, and properties of chitin whisker-reinforced alginate nanocomposite fibers. <i>Journal of Applied Polymer Science</i> , 2008, 110, 890-899.	2.6	116
3	Water-plasma-assisted synthesis of black titania spheres with efficient visible-light photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13794-13799.	2.8	89
4	Wet-spun alginate/chitosan whiskers nanocomposite fibers: Preparation, characterization and release characteristic of the whiskers. <i>Carbohydrate Polymers</i> , 2010, 79, 738-746.	10.2	88
5	Simple Solution Plasma Synthesis of Hierarchical Nanoporous MnO ₂ for Organic Dye Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5842-5851.	6.7	65
6	Novel Chitosan-Spotted Alginate Fibers from Wet-Spinning of Alginate Solutions Containing Emulsified Chitosan-Citrate Complex and their Characterization. <i>Biomacromolecules</i> , 2009, 10, 320-327.	5.4	63
7	A novel one-step synthesis of gold nanoparticles in an alginate gel matrix by solution plasma sputtering. <i>RSC Advances</i> , 2014, 4, 1622-1629.	3.6	54
8	Fabrication of cellulose nanofiber/chitin whisker/silk sericin bionanocomposite sponges and characterizations of their physical and biological properties. <i>Composites Science and Technology</i> , 2014, 96, 88-96.	7.8	48
9	Benzopyran, Biphenyl, and Tetraoxygenated Xanthone Derivatives from the Twigs of <i>Garcinia nigrolineata</i> . <i>Journal of Natural Products</i> , 2005, 68, 1218-1221.	3.0	45
10	Enhanced degradation of chitosan by applying plasma treatment in combination with oxidizing agents for potential use as an anticancer agent. <i>Carbohydrate Polymers</i> , 2017, 167, 1-11.	10.2	44
11	Effect of polymer concentration on the depolymerization of sodium alginate by the solution plasma process. <i>Polymer Degradation and Stability</i> , 2013, 98, 1072-1080.	5.8	43
12	Release characteristic and stability of curcumin incorporated in β -chitin non-woven fibrous sheet using Tween 20 as an emulsifier. <i>European Polymer Journal</i> , 2012, 48, 512-523.	5.4	27
13	Verification of Radicals Formation in Ethanol-Water Mixture Based Solution Plasma and Their Relation to the Rate of Reaction. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11668-11673.	2.5	27
14	Chitosan whiskers from shrimp shells incorporated into dimethacrylate-based dental resin sealant. <i>Dental Materials Journal</i> , 2012, 31, 273-279.	1.8	26
15	Accelerated nanoparticles synthesis in alcohol-water-mixture-based solution plasma. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30255-30259.	2.8	25
16	Synthesis of colloidal MnO ₂ with a sheet-like structure by one-pot plasma discharge in permanganate aqueous solution. <i>RSC Advances</i> , 2016, 6, 2826-2834.	3.6	24
17	Crystallinity and surface state of cellulose in wet ball-milling process. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	22
18	Liquid-Phase Plasma-Assisted in Situ Synthesis of Amino-Rich Nanocarbon for Transition Metal Ion Adsorption. <i>ACS Applied Nano Materials</i> , 2020, 3, 218-228.	5.0	18

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19	Novel green synthesis of graphene oxide-manganese dioxide using solution plasma process for energy storage. <i>Chemical Engineering Journal</i> , 2022, 442, 136244.	12.7	16
20	Sericin-binded-deprotenized natural rubber film containing chitin whiskers as elasto-gel dressing. <i>International Journal of Biological Macromolecules</i> , 2017, 101, 417-426.	7.5	15
21	Synthesis of Au Nanoparticles in Natural Matrices by Liquid-Phase Plasma: Effects on Cytotoxic Activity against Normal and Cancer Cell Lines. <i>ACS Applied Nano Materials</i> , 2019, 2, 8051-8062.	5.0	13
22	Solution plasma process for synthesizing polydiacetylene materials: Toward industrial utilization of colorimetric sensors. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 106, 243-252.	5.8	13
23	New insights into vegetable oil pyrolysis by cold plasma technique. <i>Energy Procedia</i> , 2017, 138, 1153-1158.	1.8	12
24	Simple introduction of carboxyl head group with alkyl spacer onto multiwalled carbon nanotubes by solution plasma process. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 096202.	1.5	11
25	Solution plasma applications for the synthesis/modification of inorganic nanostructured materials and the treatment of natural polymers. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 0102A3.	1.5	11
26	Influence of the discharge time of solution plasma process on the formation of gold nanoparticles in alginate matrix. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 3099-3103.	5.3	10
27	Li-air battery and ORR activity of nanocarbons produced with good synthesis rate by solution plasma process. <i>Materials Advances</i> , 2021, 2, 2636-2641.	5.4	5
28	In situ plasma treatment of tomato and rice seeds in liquid to promote seed germination and seedling growth. <i>Plasma Processes and Polymers</i> , 2022, 19, .	3.0	5
29	Cellulose Conversion to Sugar Alcohol by Solution Plasma Processing. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1745, 22.	0.1	2
30	Synergistic Reinforcement of Cellulose Microfibers from Pineapple Leaf and Ionic Cross-Linking on the Properties of Hydrogels. <i>ACS Omega</i> , 2022, 7, 25321-25328.	3.5	2
31	In situ Preparation of Gold Nanoparticles in Alginate Gel Matrix by Solution Plasma Sputtering Process. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1569, 151-155.	0.1	1
32	Structure and properties of nanocarbons-encapsulated WC synthesized by solution plasma process in palm oils. <i>Materials Express</i> , 2021, 11, 1602-1607.	0.5	1
33	High electrical conductivity and oxidation reduction reaction activity of tungsten carbide/carbon nanocomposite synthesized from palm oil by solution plasma process. <i>Materials Express</i> , 2021, 11, 1587-1593.	0.5	1
34	Influences of Plasma Formation Parameters on Size of Zinc Oxides Nanoparticles Synthesized by Solution Plasma. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2017, 68, 147-152.	0.2	0