

Hui Lin Ong

List of Publications by Year in descending order

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59
papers

820
citations

566801

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525886

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60
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Modification of Thin Film Composite Pressure Retarded Osmosis Membrane by Polyethylene Glycol with Different Molecular Weights. <i>Membranes</i> , 2022, 12, 282.	1.4	2
2	Unit operations applied to drying microalgal biomass. , 2022, , 213-224.		0
3	Bioinspired Crosslinked Nanocomposites of Polyvinyl Alcohol-Reinforced Cellulose Nanocrystals Extracted from Rice Straw with Ethanedioic Acid. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-16.	1.5	6
4	Hydrogen adsorption on calcium, potassium, and magnesium-decorations aluminene using density functional theory. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16676-16684.	3.8	7
5	A Review on Nanocellulose and Its Application in Supercapacitors. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100556.	1.7	16
6	Biomass-derived cellulose nanofibrils membrane from rice straw as sustainable separator for high performance supercapacitor. <i>Industrial Crops and Products</i> , 2021, 170, 113694.	2.5	54
7	Optimal Design of SMPMSM Using SD-model based on Genetic Algorithm. , 2021, , .		0
8	Design and Optimization of Electromagnetic Torque for a Surface-Mounted PMSM by using Subdomain Model and GA in Electric Vehicle Application. , 2021, , .		1
9	Revealing the Water Resistance, Thermal and Biodegradation Properties of Citrus aurantifolia Crosslinked Tapioca Starch/Nanocellulose Bionanocomposites. <i>Journal of Polymers and the Environment</i> , 2020, 28, 3256-3269.	2.4	15
10	Hydrogen adsorption on calcium-decorated planar aluminene using density functional theory. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 463, 012104.	0.2	3
11	Density functional theory investigation on hydrogen adsorption on buckled aluminene. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 463, 012105.	0.2	5
12	Chemical reactivity and bioactivity properties of pyrazinamide analogs of acetylsalicylic acid and salicylic acid using conceptual density functional theory. <i>Heliyon</i> , 2020, 6, e04239.	1.4	6
13	Graphene Oxide Incorporated Polysulfone Substrate for Flat Sheet Thin Film Nanocomposite Pressure Retarded Osmosis Membrane. <i>Membranes</i> , 2020, 10, 416.	1.4	16
14	Swelling, Tensile and Thermal Behaviors of Citric Acid Crosslinked Tapioca Starch/Cellulose Biocomposite Films. <i>Materials Science Forum</i> , 2020, 1010, 514-519.	0.3	0
15	First principles investigation on the nitrogen-doped planar aluminene for hydrogen storage application. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 463, 012103.	0.2	2
16	Investigation the optimum performance of the surface-mounted PMSM under different magnetization patterns. <i>Journal of Physics: Conference Series</i> , 2020, 1432, 012005.	0.3	3
17	Investigation on water adsorption on 3-crosslinked circular polyacrylamide membrane using ab initio, molecular dynamics and monte carlo calculations for dewatering microalgae. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 268, 012144.	0.2	2
18	Unveiling the physicochemical properties of natural Citrus aurantifolia crosslinked tapioca starch/nanocellulose bionanocomposites. <i>Industrial Crops and Products</i> , 2019, 139, 111548.	2.5	36

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19	First Principles Investigation on H ₂ Adsorption on the Pristine 2-Dimensional Hexagonal Aluminum. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012135.	0.2	8
20	Investigation of reverse ionic diffusion in forward-osmosis-aided dewatering of microalgae: A molecular dynamics study. Bioresource Technology, 2019, 279, 181-188.	4.8	21
21	First Principles Investigation on the Elastic Properties of Mg, Ca, K-decorated Planar Aluminene. , 2019, , .		0
22	Elastic Properties of B, C, N-decorated on Planar Aluminene using Density Functional Theory. , 2019, , .		0
23	Optical Band Gap and Electrical Conductivity of Doped Conducting Polypyrrole. , 2019, , .		1
24	H ₂ O Absorptivity on a Fully 4-crosslinked Polyacrylamide Membrane via Density Functional Theory and Monte Carlo Calculations for Draw Solution Recovery in Forward Osmosis. , 2019, , .		0
25	Swelling behavior and chemical stability of chitosan/nanocellulose biocomposites. Polymer Composites, 2018, 39, E561.	2.3	19
26	Surface functionalized nanocellulose as a veritable inclusionary material in contemporary bioinspired applications: A review. Journal of Applied Polymer Science, 2018, 135, 46065.	1.3	70
27	Density Functional Theory-based modeling and calculations of a polyamide molecular unit for studying forward-osmosis-dewatering of microalgae. , 2018, , .		3
28	Effect of Mesoporous Nanoparticles from LCD Glass Panels Waste toward Polypropylene Based Hybrid Composites. , 2018, , .		0
29	Cover Image, Volume 67, Issue 12. Polymer International, 2018, 67, i-i.	1.6	0
30	Physicochemical properties of reduced graphite oxide conglomerated polyethylene nanocomposites. Polymer International, 2018, 67, 1638-1647.	1.6	3
31	Unveiling the thermal kinetics and scissoring mechanism of neolatty polyethylene/reduced graphite oxide nanocomposites. Journal of Analytical and Applied Pyrolysis, 2017, 123, 20-29.	2.6	15
32	DFT Investigation on the Electronic and Water Adsorption Properties of Pristine and N-Doped TiO ₂ Nanotubes for Photocatalytic Water Splitting Applications. Journal of Electronic Materials, 2017, 46, 3592-3602.	1.0	24
33	Extraction of microcrystalline cellulose from rice straw and its effect on polyvinyl alcohol biocomposites film. AIP Conference Proceedings, 2017, , .	0.3	9
34	A comparative study of green composites based on tapioca starch and celluloses. AIP Conference Proceedings, 2017, , .	0.3	2
35	Design of size-tunable molecularly imprinted polymer for selective adsorption of acetaminophen. Clean Technologies and Environmental Policy, 2017, 19, 243-250.	2.1	11
36	Course-grained molecular dynamics investigation on the effects of uniform electric field on DPPC lipid bilayer: With and without vacuum space. , 2017, , .		0

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37	Tailoring the Chemical and Structural Properties of Graphene Oxide Nanoplatelets Synthesised at Room Temperature with Different Processing Times. <i>Journal of Physical Science</i> , 2017, 28, 19-40.	0.5	5
38	Effects of polypropylene methyl polyhedral oligomeric silsesquioxanes and polypropylene-grafted maleic anhydride compatibilizers on the properties of palm kernel shell reinforced polypropylene biocomposites. <i>Polimeros</i> , 2016, 26, 228-235.	0.2	12
39	Comparative Study of Microcelluloses Isolated From Two Different Biomasses with Commercial Cellulose. <i>BioResources</i> , 2016, 11, .	0.5	8
40	Microwave drying characteristics of microalgae (<i>Chlorella vulgaris</i>) for biofuel production. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2441-2451.	2.1	42
41	Characterization of nanocellulose recovery from <i>Elaeis guineensis</i> frond for sustainable development. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2503-2512.	2.1	63
42	Investigation of the drying characteristics of microalgae using microwave irradiation. , 2015, , .		2
43	Crystallinity and Morphological of Cellulose Extraction from <i>Elaeis guineensis</i> Jacquin Frond. <i>Materials Science Forum</i> , 2015, 819, 251-255.	0.3	0
44	Production of epoxy spherical mesoporous as a spherical membrane separator. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 149-155.	2.2	3
45	Thermal Properties of Polypropylene/Palm Kernel Shell Biocomposites: Effects of Amino Silane (APTES). <i>Materials Science Forum</i> , 2014, 803, 250-254.	0.3	1
46	Effect of Polypropylene-Methyl Polyhedral Oligomeric Silsesquioxane Compatibilizer in Polypropylene/Silica Nanocomposites: Mechanical, Morphological and Thermal Studies. <i>Materials Science Forum</i> , 2014, 803, 265-268.	0.3	6
47	Effect of compatibiliser on the accelerated weathering performance of polypropylene-silica nanocomposites. <i>Materials Research Innovations</i> , 2014, 18, S6-433-S6-438.	1.0	5
48	Analysis of Ground Dolomite: Effect of Grinding Time on the Production of Submicron Particles. <i>Applied Mechanics and Materials</i> , 2014, 679, 145-148.	0.2	4
49	Thermal Properties of Linear-Low Density Polyethylene (LLDPE)/Soya Spent Powder Blends with the Addition of Epoxidised Natural Rubber. <i>Advanced Materials Research</i> , 2013, 795, 433-437.	0.3	1
50	Preparation and Characterization of Polypropylene Biocomposites Reinforced Palm Fruitlet Fiber. <i>Advanced Materials Research</i> , 2013, 795, 281-285.	0.3	0
51	Surface-activated nanosilica treated with silane coupling agents/polypropylene composites: Mechanical, morphological, and thermal studies. <i>Polymer Composites</i> , 2011, 32, 1568-1583.	2.3	65
52	Comparative Study between PP-g-MAH and PP-methyl-POSS as Compatibilizer for NanoSiO ₂ /PP Composites: Mechanical and Morphological Properties. <i>Advanced Composites Letters</i> , 2009, 18, 096369350901800.	1.3	2
53	Characterization and properties of activated nanosilica/polypropylene composites with coupling agents. <i>Polymer Composites</i> , 2009, 30, 1693-1700.	2.3	51
54	Preparation and properties of nanosilica-filled polypropylene composites with PP-methyl POSS as compatibiliser. <i>Materials & Design</i> , 2009, 30, 748-751.	5.1	35

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55	Thermal Properties of Microsilica and Nanosilica Filled Polypropylene Composite with Epoxy as Dispersing Aid. <i>Journal of Reinforced Plastics and Composites</i> , 2007, 26, 761-770.	1.6	20
56	Effect of Inorganic Fillers on the Flammability Behavior of Polypropylene Composites. <i>Journal of Thermoplastic Composite Materials</i> , 2007, 20, 195-205.	2.6	21
57	Effect of Various Coupling Agents on Properties of Alumina-filled PP Composites. <i>Journal of Reinforced Plastics and Composites</i> , 2006, 25, 745-759.	1.6	33
58	Grafting of sodium carboxymethylcellulose (CMC) with glycidyl methacrylate and development of UV curable coatings from CMC-g-GMA induced by cationic photoinitiators. <i>Carbohydrate Polymers</i> , 2005, 59, 57-69.	5.1	66
59	Utilization of Modified Palm Kernel Shell for Biocomposites Production. <i>Key Engineering Materials</i> , 0, 700, 60-69.	0.4	13