Hui Lin Ong

List of Publications by Year
in descending order

59	820	566801 15	525886 27
papers	citations	h-index	g-index

60	60	60	1111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Grafting of sodium carboxymethylcellulose (CMC) with glycidyl methacrylate and development of UV curable coatings from CMC-g-GMA induced by cationic photoinitiators. Carbohydrate Polymers, 2005, 59, 57-69.	5.1	66
3	Surfaceâ€activated nanosilica treated with silane coupling agents/polypropylene composites: Mechanical, morphological, and thermal studies. Polymer Composites, 2011, 32, 1568-1583.	2.3	65
4	Characterization of nanocellulose recovery from Elaeis guineensis frond for sustainable development. Clean Technologies and Environmental Policy, 2016, 18, 2503-2512.	2.1	63
5	Biomassâ€“derived cellulose nanofibrils membrane from rice straw as sustainable separator for high performance supercapacitor. Industrial Crops and Products, 2021, 170, 113694.	2.5	54
6	Characterization and properties of activated nanosilica/polypropylene composites with coupling agents. Polymer Composites, 2009, 30, 1693-1700.	2.3	51
7	Microwave drying characteristics of microalgae (Chlorella vulgaris) for biofuel production. Clean Technologies and Environmental Policy, 2016, 18, 2441-2451.	2.1	42
8	Unveiling the physicochemical properties of natural Citrus aurantifolia crosslinked tapioca starch/nanocellulose bionanocomposites. Industrial Crops and Products, 2019, 139, 111548.	2.5	36
9	Preparation and properties of nanosilica-filled polypropylene composites with PP-methyl POSS as compatibiliser. Materials & Design, 2009, 30, 748-751.	5.1	35
10	Effect of Various Coupling Agents on Properties of Alumina-filled PP Composites. Journal of Reinforced Plastics and Composites, 2006, 25, 745-759.	1.6	33
11	DFT Investigation on the Electronic and Water Adsorption Properties of Pristine and N-Doped TiO2 Nanotubes for Photocatalytic Water Splitting Applications. Journal of Electronic Materials, 2017, 46, 3592-3602.	1.0	24
12	Effect of Inorganic Fillers on the Flammability Behavior of Polypropylene Composites. Journal of Thermoplastic Composite Materials, 2007, 20, 195-205.	2.6	21
13	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
14	Thermal Properties of Microsilica and Nanosilica Filled Polypropylene Composite with Epoxy as Dispersing Aid. Journal of Reinforced Plastics and Composites, 2007, 26, 761-770.	1.6	20
15	Swelling behavior and chemical stability of chitosan/nanocellulose biocomposites. Polymer Composites, 2018, 39, E561.	2.3	19
16	Graphene Oxide Incorporated Polysulfone Substrate for Flat Sheet Thin Film Nanocomposite Pressure Retarded Osmosis Membrane. Membranes, 2020, 10, 416.	1.4	16
17	A Review on Nanocellulose and Its Application in Supercapacitors. Macromolecular Materials and Engineering, 2021, 306, 2100556.	1.7	16
18	Unveiling the thermal kinetics and scissoring mechanism of neolatry polyethylene/reduced graphite oxide nanocomposites. Journal of Analytical and Applied Pyrolysis, 2017, 123, 20-29.	2.6	15

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19	Revealing the Water Resistance, Thermal and Biodegradation Properties of Citrus aurantifolia Crosslinked Tapioca Starch/Nanocellulose Bionanocomposites. Journal of Polymers and the Environment, 2020, 28, 3256-3269.	2.4	15
20	Utilization of Modified Palm Kernel Shell for Biocomposites Production. Key Engineering Materials, 0, 700, 60-69.	0.4	13
21	Effects of polypropylene methyl polyhedral oligomeric silsesquioxanes and polypropylene-grafted maleic anhydride compatibilizers on the properties of palm kernel shell reinforced polypropylene biocomposites. Polimeros, 2016, 26, 228-235.	0.2	12
22	Design of size-tunable molecularly imprinted polymer for selective adsorption of acetaminophen. Clean Technologies and Environmental Policy, 2017, 19, 243-250.	2.1	11
23	Extraction of microcrystalline cellulose from rice straw and its effect on polyvinyl alcohol biocomposites film. AIP Conference Proceedings, 2017, , .	0.3	9
24	Comparative Study of Microcelluloses Isolated From Two Different Biomasses with Commercial Cellulose. BioResources, 2016, 11, .	0.5	8
25	First Principles Investigation on H2 Adsorption on the Pristine 2-Dimensional Hexagonal Aluminum. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012135.	0.2	8
26	Hydrogen adsorption on calcium, potassium, and magnesium-decorations aluminene using density functional theory. International Journal of Hydrogen Energy, 2021, 46, 16676-16684.	3.8	7
27	Effect of Polypropylene-Methyl Polyhedral Oligomeric Silsesquioxane Compatibilizer in Polypropylene/Silica Nanocomposites: Mechanical, Morphological and Thermal Studies. Materials Science Forum, 2014, 803, 265-268.	0.3	6
28	Chemical reactivity and bioactivity properties of pyrazinamide analogs of acetylsalicylic acid and salicylic acid using conceptual density functional theory. Heliyon, 2020, 6, e04239.	1.4	6
29	Bioinspired Crosslinked Nanocomposites of Polyvinyl Alcohol-Reinforced Cellulose Nanocrystals Extracted from Rice Straw with Ethanedioic Acid. Journal of Nanomaterials, 2022, 2022, 1-16.	1.5	6
30	Effect of compatibiliser on the accelerated weathering performance of polypropyleneâ€“silica nanocomposites. Materials Research Innovations, 2014, 18, S6-433-S6-438.	1.0	5
31	Density functional theory investigation on hydrogen adsorption on buckled aluminene. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012105.	0.2	5
32	Tailoring the Chemical and Structural Properties of Graphene Oxide Nanoplatelets Synthesised at Room Temperature with Different Processing Times. Journal of Physical Science, 2017, 28, 19-40.	0.5	5
33	Analysis of Ground Dolomite: Effect of Grinding Time on the Production of Submicron Particles. Applied Mechanics and Materials, 2014, 679, 145-148.	0.2	4
34	Production of epoxy spherical mesoporous as a spherical membrane separator. Microporous and Mesoporous Materials, 2015, 204, 149-155.	2.2	3
35	Density Functional Theory-based modeling and calculations of a polyamide molecular unit for studying forward-osmosis-dewatering of microalgae. , 2018, , .		3
36	Physicochemical properties of reduced graphite oxide conglomerated polyethylene nanocomposites. Polymer International, 2018, 67, 1638-1647.	1.6	3

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37	Hydrogen adsorption on calcium-decorated planar aluminene using density functional theory. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012104.	0.2	3
38	Investigation the optimum performance of the surface-mounted PMSM under different magnetization patterns. Journal of Physics: Conference Series, 2020, 1432, 012005.	0.3	3
39	Comparative Study between PP-g-MAH and PP-methyl-POSS as Compatibilizer for NanoSiO₂/PP Composites: Mechanical and Morphological Properties. Advanced Composites Letters, 2009, 18, 096369350901800.	1.3	2
40	Investigation of the drying characteristics of microalgae using microwave irradiation. , 2015, , .		2
41	A comparative study of green composites based on tapioca starch and celluloses. AIP Conference Proceedings, 2017, , .	0.3	2
42	Investigation on water adsorption on 3-crosslinked circular polyacrylamide membrane using ab initio, molecular dynamics and monte carlo calculations for dewatering microalgae. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012144.	0.2	2
43	First principles investigation on the nitrogen-doped planar aluminene for hydrogen storage application. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012103.	0.2	2
44	Modification of Thin Film Composite Pressure Retarded Osmosis Membrane by Polyethylene Glycol with Different Molecular Weights. Membranes, 2022, 12, 282.	1.4	2
45	Thermal Properties of Linear-Low Density Polyethylene (LLDPE)/Soya Spent Powder Blends with the Addition of Epoxidised Natural Rubber. Advanced Materials Research, 2013, 795, 433-437.	0.3	1
46	Thermal Properties of Polypropylene/Palm Kernel Shell Biocomposites: Effects of Amino Silane (APTES). Materials Science Forum, 2014, 803, 250-254.	0.3	1
47	Optical Band Gap and Electrical Conductivity of Doped Conducting Polypyrrole. , 2019, , .		1
48	Design and Optimization of Electromagnetic Torque for a Surface-Mounted PMSM by using Subdomain Model and GA in Electric Vehicle Application. , 2021, , .		1
49	Preparation and Characterization of Polypropylene Biocomposites Reinforced Palm Fruitlet Fiber. Advanced Materials Research, 2013, 795, 281-285.	0.3	0
50	Crystallinity and Morphological of Cellulose Extraction from Elaeis guineensis Jacquin Frond. Materials Science Forum, 2015, 819, 251-255.	0.3	0
51	Course-grained molecular dynamics investigation on the effects of uniform electric field on DPPC lipid bilayer: With and without vacuum space. , 2017, , .		0
52	Effect of Mesoporous Nanoparticles from LCD Glass Panels Waste toward Polypropylene Based Hybrid Composites. , 2018, , .		0
53	Cover Image, Volume 67, Issue 12. Polymer International, 2018, 67, i-i.	1.6	0
54	First Principles Investigation on the Elastic Properties of Mg, Ca, K-decorated Planar Aluminene. , 2019, , .		0

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55	Elastic Properties of B, C, N-decorated on Planar Aluminene using Density Functional Theory. , 2019, , .		0
56	Swelling, Tensile and Thermal Behaviors of Citric Acid Crosslinked Tapioca Starch/Cellulose Biocomposite Films. Materials Science Forum, 2020, 1010, 514-519.	0.3	0
57	H2O 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
58	Optimal Design of SMPMSM Using SD-model based on Genetic Algorithm. , 2021, , .		0
59	Unit operations applied to drying microalgal biomass. , 2022, , 213-224.		0