Chiâ€˜Hui Tsou

List of Publications by Year
in descending order

58 papers	2,154 citations	361413 20 h-index	233421 45 g-index
60 all docs	60 docs citations	60 times ranked	2407 citing authors

#	Article	IF	Citations
1	Cross-Linking with Diamine Monomers To Prepare Composite Graphene Oxide-Framework Membranes with Varying d-Spacing. Chemistry of Materials, 2014, 26, 2983-2990.	6.7	644
2	Effect of microstructure of graphene oxide fabricated through different self-assembly techniques on 1-butanol dehydration. Journal of Membrane Science, 2015, 477, 93-100.	8.2	278
3	Study on the Crystallization, Miscibility, Morphology, Properties of Poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 662 Td (	1.9	109
4	Compatible and crystallization properties of poly(lactic acid)/poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (adipateâ€	2.6	84
5	Synthesis and properties of biodegradable polycaprolactone/polyurethanes byÂusing 2,6-pyridinedimethanol as a chain extender. Polymer Degradation and Stability, 2013, 98, 643-650.	5.8	66
6	Preparation and Characterization of Bioplastic-Based Green Renewable Composites from Tapioca with Acetyl Tributyl Citrate as a Plasticizer. Materials, 2014, 7, 5617-5632.	2.9	66
7	Rendering polypropylene biocomposites antibacterial through modification with oyster shell powder. Polymer, 2019, 160, 265-271.	3.8	61
8	Fabrication, characterization, and application of biocomposites from poly(lactic acid) with renewable rice husk as reinforcement. Journal of Polymer Research, 2019, 26, 1.	2.4	53
9	Antibacterial Property and Cytotoxicity of a Poly(lactic acid)/Nanosilver-Doped Multiwall Carbon Nanotube Nanocomposite. Polymers, 2017, 9, 100.	4.5	49
10	Synthesis and properties of antibacterial polyurethane with novel Bis(3-pyridinemethanol) silver chain extender. Polymer, 2016, 85, 96-105.	3.8	47
11	Innovative Plasma Process of Grafting Methyl Diallyl Ammonium Salt onto Polypropylene to Impart Antibacterial and Hydrophilic Surface Properties. Industrial & Engineering Chemistry Research, 2018, 57, 2537-2545.	3.7	44
12	Infusing High-density Polyethylene with Graphene-Zinc Oxide to Produce Antibacterial Nanocomposites with Improved Properties. Chinese Journal of Polymer Science (English Edition), 2020, 38, 898-907.	3.8	40
13	Antibacterial nanocomposite films of poly(vinyl alcohol) modified with zinc oxide-doped multiwalled carbon nanotubes as food packaging. Polymer Bulletin, 2022, 79, 3847-3866.	3.3	36
14	Biodegradable composition of poly(lactic acid) from renewable wood flour. Polymer Science - Series B, 2015, 57, 473-480.	0.8	34
15	Conductivity and mechanical properties of carbon black-reinforced poly(lactic acid) (PLA/CB) composites. Iranian Polymer Journal (English Edition), 2021, 30, 1251-1262.	2.4	34
16	Evaluating distillers grains as bio-fillers for high-density polyethylene. Journal of Polymer Research, 2020, 27, 1.	2.4	33
17	Preparation and characterization of renewable composites from Polylactide and Rice husk for 3D printing applications. Journal of Polymer Research, 2019, 26, 1.	2.4	29
18	Characterization of network bonding created by intercalated functionalized graphene and polyvinyl alcohol in nanocomposite films for reinforced mechanical properties and barrier performance. Nanotechnology, 2020, 31, 385703.	2.6	24

#	Article	IF	Citations
19	Synthetic Environmentally Friendly Castor Oil Based-Polyurethane with Carbon Black as a Microphase Separation Promoter. Polymers, 2019, 11, 1333.	4.5	22
20	Thermal Properties and Barrier Performance of Antibacterial High-Density Polyethylene Reinforced with Carboxyl Graphene-Grafted Modified High-Density Polyethylene. Industrial & Engineering Chemistry Research, 2021, 60, 12911-12922.	3.7	21
21	The compatible and mechanical properties of biodegradable poly(Lactic Acid)/ethylene glycidyl methacrylate copolymer blends. Journal of Polymer Research, 2012, 19, 1.	2.4	20
22	Barrier performance and biodegradability of antibacterial poly(butylene adipate-co-terephthalate) nanocomposites reinforced with a new MWCNT-ZnO nanomaterial. Nanotechnology, 2021, 32, 485706.	2.6	20
23	Thermal properties and hydrophilicity of antibacterial poly(phenylene sulfide) nanocomposites reinforced with zinc oxide-doped multiwall carbon nanotubes. Journal of Polymer Research, 2022, 29, 1.	2.4	18
24	Ultradrawing properties of ultrahighâ€•molecular weight polyethylene/functionalized carbon nanotube fibers and transmittance properties of their gel solutions. Polymer Engineering and Science, 2011, 51, 2552-2563.	3.1	17
25	Antibacterial Nanocomposites of Polypropylene Modified with Silver-Decorated Multiwalled Carbon Nanotubes. Nano, 2020, 15, 2050112.	1.0	17
26	Preparation of Antibacterial Nanocomposites of Zinc Oxide-Doped Graphene Reinforced Polypropylene with High Comprehensive Properties. Nano, 2021, 16, 2150026.	1.0	17
27	Effects of different metals on the synthesis and properties of waterborne polyurethane composites containing pyridyl units. Polymer Bulletin, 2017, 74, 1121-1143.	3.3	16
28	High-performance antibacterial nanocomposite films with a 3D network structure prepared from carboxylated graphene and modified polyvinyl alcohol. Progress in Organic Coatings, 2022, 166, 106805.	3.9	16
29	Barrier properties of nanocomposites from high-density polyethylene reinforced with natural attapulgite. Current Research in Green and Sustainable Chemistry, 2022, 5, 100314.	5.6	16
30	New Composition of Maleic-Anhydride-Grafted Poly(Lactic Acid)/Rice Husk with Methylenediphenyl Diisocyanate. Medziagotyra, 2014, 20, .	0.2	15
31	Preparation and characterization of bio-based green renewable composites from poly(lactic acid) reinforced with corn stover. Journal of Polymer Research, 2021, 28, 1.	2.4	15
32	The preparation and performance of poly(butylene adipate) terephthalate/corn stalk composites. Current Research in Green and Sustainable Chemistry, 2022, 5, 100329.	5.6	15
33	Compatible and tearing properties of poly(lactic acid)/poly(ethylene glutaricâ€coâ€terephthalate) copolyester blends. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 913-920.	2.1	13
34	Preparation and characterization of poly(lactic acid) with adipate ester added as a plasticizer. Polymers and Polymer Composites, 2018, 26, 446-453.	1.9	13
35	Polyurethane/Nanosilver-Doped Halloysite Nanocomposites: Thermal, Mechanical Properties, and Antibacterial Properties. Polymers, 2020, 12, 2729.	4.5	13
36	Characterization of antibacterial nanocomposites of polyethylene terephthalate filled with nanosilver-doped carbon black. Polymers and Polymer Composites, 2021, 29, 797-806.	1.9	13

#	Article	IF	Citations
37	Barrier Properties and Hydrophobicity of Biodegradable Poly(lactic acid) Composites Reinforced with Recycled Chinese Spirits Distillerâ€™s Grains. Polymers, 2021, 13, 2861.	4.5	13
38	Synthesis of biodegradable polycaprolactone/polyurethane by curing with H2O. Polymer Bulletin, 2015, 72, 1545-1561.	3.3	12
39	Characterizing Attapulgite-Reinforced Nanocomposites of Poly(lactic acid). Polymer Science - Series A, 2020, 62, 732-743.	1.0	12
40	Preparation and characterization of biodegradable polyurethane composites containing oyster shell powder. Polymer Bulletin, 2020, 77, 3325-3347.	3.3	11
41	A New Application of Hollow Nanosilica Added to Modified Polypropylene to Prepare Nanocomposite Films. Nano, 0, , 2150117.	1.0	11
42	Drawing and ultimate tensile properties of nylon 6/nylon 6 clay composite fibers. Polymer Engineering and Science, 2012, 52, 1348-1355.	3.1	8
43	Biocompatibility and characterization of polylactic acid/styrene-ethylene-butylene-styrene composites. Bio-Medical Materials and Engineering, 2015, 26, S147-S154.	0.6	8
44	Preparation and physical properties of meltâ€blown nonwovens of biodegradable PLA/acetyl tributyl citrate/FePol copolyester blends. Journal of Applied Polymer Science, 2012, 125, E158.	2.6	6
45	Preparation and characterization of biodegradable polyurethanes composites filled with silver nanoparticles-decorated graphene. Journal of Polymer Research, 2016, 23, 1.	2.4	6
46	The effects of silver nitrate on the structure and properties of polyurethanes containing pyridyl units. Polymer Bulletin, 2014, 71, 2749-2767.	3.3	5
47	Study of the synthesis and properties of polyurethane containing pyridyl units for shape memory. Polymer Bulletin, 2016, 73, 1303-1320.	3.3	5
48	Polyester-based green renewable eco-composites by solar energy tube processing: characterization and assessment of properties. Journal of Polymer Research, 2018, 25, 1.	2.4	5
49	Organocatalyzed ring-opening copolymerization of Î±-bromo-Î³-butyrolactone with Îµ-caprolactone for the synthesis of functional aliphatic polyesters â€“ pre-polymers for graft copolymerization. Designed Monomers and Polymers, 2018, 21, 193-201.	1.6	4
50	The Properties and a New Preparation of Ethylene Propylene Diene Monomer/Montmorillonite Nanocomposites. Polymers and Polymer Composites, 2015, 23, 181-190.	1.9	3
51	Preparation and characterization of biodegradable polyurethanes composites containing thermally treated attapulgite nanorods. Polymer Bulletin, 2016, 73, 3119-3141.	3.3	3
52	Fabrication, characterization, cytocompatibility, and biological activity of lemon fiber-filled polyester composites. International Journal of Polymeric Materials and Polymeric Biomaterials, 2018, 67, 151-160.	3.4	3
53	Ultrahigh molecular weight polyethylene fibers prepared using conical dies with varying dimensions. Polymer Engineering and Science, 2013, 53, 1910-1919.	3.1	2
54	Isothermal Crystallization Kinetics Effect on the Tensile Properties of PLA/PTT Polymer Composites. Strength of Materials, 2017, 49, 171-179.	0.5	2

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55	Crystallization behavior and tensile property of poly(trimethyleneterephthalate)/styrene-ethylene-buthylene-styrene composites. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 474-480.	1.0	1
56	Preparation and physicochemical properties of digested collagen fragments with varying molecular weights. Journal of Polymer Research, 2012, 19, 1.	2.4	0
57	Preparation and Physical Properties of Polyethylene/Carbon Nanotubes/Nanosilver Composite. IOP Conference Series: Materials Science and Engineering, 2020, 774, 012120.	0.6	0
58	The Characterization of Nanocomposites from Poly(lactic acid) with Nanocarbon Black as the Reinforcement. , 2021, , .		0