

Jiyou Gu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

1,046
citations

19
h-index

30
g-index

59
ext. papers

1,286
ext. citations

4.3
avg, IF

4.61
L-index

#	Paper	IF	Citations
57	Engineered Latex Particles Using CoreShell Emulsion Polymerization: From a Strawberry-like Surface Pattern to a Shape-Memory Film. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 1276-1285	4.3	2
56	Novel dopamine-modified cellulose acetate ultrafiltration membranes with improved separation and antifouling performances.. <i>Journal of Materials Science</i> , 2022 , 57, 1-13	4.3	0
55	Converting soy protein isolate into biomass-based polymer electrolyte by grafting modification for high-performance supercapacitors.. <i>International Journal of Biological Macromolecules</i> , 2022 , 209, 268-278 ⁹	7.9	0
54	Synthesis of isocyanate microcapsules as functional crosslinking agent for wood adhesive 2021 , 97, 38-52		6
53	Development and investigation of novel antifouling cellulose acetate ultrafiltration membrane based on dopamine modification. <i>International Journal of Biological Macromolecules</i> , 2020 , 160, 652-659 ^{7.9}	7.9	13
52	Performances of an epoxy-amine network after introducing the MWCNTs: rheology, thermal and electrical conductivity, mechanical properties. <i>Journal of Adhesion Science and Technology</i> , 2019 , 33, 382-394	2.394	4
51	A Crosslinked Soybean Protein Isolate Gel Polymer Electrolyte Based on Neutral Aqueous Electrolyte for a High-Energy-Density Supercapacitor. <i>Polymers</i> , 2019 , 11,	4.5	15
50	Performances of epoxy-based composites with multi-wall carbon nanotubes and acrylic tri-block copolymer. <i>Nanocomposites</i> , 2019 , 5, 28-35	3.4	1
49	Crosslinked quaternized poly(arylene ether sulfone) copolymer membrane applied in an electric double-layer capacitor for high energy density. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47759	2.9	6
48	Shape memory effect of chitosan/glycerol composite film in mixed water/ethanol solution. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47037	2.9	7
47	Construction of Polymer Electrolyte Based on Soybean Protein Isolate and Hydroxyethyl Cellulose for a Flexible Solid-State Supercapacitor. <i>Polymers</i> , 2019 , 11,	4.5	17
46	Mechanical stability and biodegradability balance of wood fiber reinforced soybean protein composites. <i>Polymer Composites</i> , 2019 , 40, 1228-1238	3	4
45	Physicochemical properties of starch adhesives enhanced by esterification modification with dodecenyl succinic anhydride. <i>International Journal of Biological Macromolecules</i> , 2018 , 112, 1257-1263	7.9	30
44	Soil burial-induced chemical and thermal changes in starch/poly (lactic acid) composites. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 338-344	7.9	13
43	Preparation of high performance adhesives matrix based on epoxy resin modified by bis-hydroxy terminated polyphenylene oxide. <i>Journal of Adhesion Science and Technology</i> , 2018 , 32, 1224-1238	2	7
42	High-performance thermosets with tailored properties derived from methacrylated eugenol and epoxy-based vinyl ester. <i>Polymer International</i> , 2018 , 67, 544-549	3.3	17
41	Soybean-Oil-Based Thermosetting Resins with Methacrylated Vanillyl Alcohol as Bio-Based, Low-Viscosity Comonomer. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700278	3.9	22

40	Co Ray Irradiation Crosslinking of Chitosan/Graphene Oxide Composite Film: Swelling, Thermal Stability, Mechanical, and Antibacterial Properties. <i>Polymers</i> , 2018 , 10,	4.5	25
39	Preparation of plasticized poly (lactic acid) and its influence on the properties of composite materials. <i>PLoS ONE</i> , 2018 , 13, e0193520	3.7	42
38	Thermal and mechanical properties of cyanate ester resin modified with acid-treated multiwalled carbon nanotubes. <i>High Performance Polymers</i> , 2018 , 30, 38-46	1.6	5
37	Properties of grafted wood flour filled poly (lactic acid) composites by reactive extrusion. <i>Journal of Adhesion Science and Technology</i> , 2018 , 32, 429-438	2	3
36	Effect of Shell Growth on the Morphology of Polyvinyl Acetate/Polystyrene Inverted Core-Shell Latex Fabricated by Acrylonitrile Grafting. <i>Materials</i> , 2018 , 11,	3.5	3
35	Vitamin E Encapsulation in Plant-Based Nanoemulsions Fabricated Using Dual-Channel Microfluidization: Formation, Stability, and Bioaccessibility. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 10532-10542	5.7	40
34	Thermal and mechanical performance of electrospun chitosan/poly(vinyl alcohol) nanofibers with graphene oxide. <i>Advanced Composites and Hybrid Materials</i> , 2018 , 1, 722-730	8.7	15
33	Physicochemical evolutions of starch/poly (lactic acid) composite biodegraded in real soil. <i>Journal of Environmental Management</i> , 2018 , 228, 223-231	7.9	17
32	Enhanced durability of sustainable poly (lactic acid)-based composites with renewable starch and wood flour. <i>Journal of Cleaner Production</i> , 2018 , 203, 328-339	10.3	16
31	The morphology, rheological, and mechanical properties of wood flour/starch/poly(lactic acid) blends. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	11
30	Exploration of zwitterionic cellulose acetate antifouling ultrafiltration membrane for bovine serum albumin (BSA) separation. <i>Carbohydrate Polymers</i> , 2017 , 165, 266-275	10.3	58
29	Study on benzoxazine-based film adhesive and its adhesion properties with CFPR composites. <i>Journal of Adhesion Science and Technology</i> , 2017 , 31, 1796-1806	2	9
28	Microstructure analysis of polylactic acid-based composites during degradation in soil. <i>International Biodeterioration and Biodegradation</i> , 2017 , 122, 53-60	4.8	27
27	Rational design and synthesis of transition layer-mediated structured latex particles with poly(vinyl acetate) cores and poly(styrene) shells. <i>Colloid and Polymer Science</i> , 2017 , 295, 353-362	2.4	5
26	A Rapid and Efficient Route to Preparation of Isocyanate Microcapsules. <i>Polymers</i> , 2017 , 9,	4.5	15
25	Biodegradation behavior and modelling of soil burial effect on degradation rate of PLA blended with starch and wood flour. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 159, 800-808	6	46
24	Preparation, characterization and thermal analysis of urea-formaldehyde foam. <i>RSC Advances</i> , 2017 , 7, 36223-36230	3.7	5
23	The UV aging properties of maleic anhydride esterified starch/polylactic acid composites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017 , 32, 971-977	1	5

22	Effects of alkali treatment on the properties of WF/PLA composites. <i>Journal of Adhesion Science and Technology</i> , 2017 , 31, 1151-1161	2	5
21	An effective approach to fabrication of antifouling ultrafiltration membrane based on zwitterionic polyimide. <i>High Performance Polymers</i> , 2017 , 29, 1006-1015	1.6	6
20	Effect of acidity and manner of addition of HZSM-5 catalyst on the aromatic products during catalytic upgrading of biomass pyrolysis. <i>BioResources</i> , 2017 , 12, 8286-8305	1.3	6
19	Fabrication and morphological evolution of inverse core/shell structural latex particles of poly(vinyl acetate)/polystyrene by maleic anhydride grafting. <i>Colloid and Polymer Science</i> , 2016 , 294, 1117-1128	2.4	5
18	Modification of wood flour/PLA composites by reactive extrusion with maleic anhydride. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	23
17	Preparation and properties of a polyvinyl alcohol toughened urea-formaldehyde foam for thermal insulation applications. <i>Construction and Building Materials</i> , 2016 , 120, 104-111	6.7	20
16	Preparation and properties of isocyanate prepolymer/corn starch adhesive. <i>Journal of Adhesion Science and Technology</i> , 2015 , 29, 1368-1381	2	12
15	Fabrication and performance study of a zwitterionic polyimide antifouling ultrafiltration membrane. <i>RSC Advances</i> , 2015 , 5, 21316-21325	3.7	19
14	Thermoplastic starch prepared with different plasticizers: Relation between degree of plasticization and properties. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015 , 30, 423-428	1	24
13	Research on the Blocking Reaction Kinetics and Mechanism of Aqueous Polyurethane Micelles Blocked by 2,4,6-Trichlorophenol. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2015 , 52, 847-855	2.2	5
12	Effects of dry method esterification of starch on the degradation characteristics of starch/polylactic acid composites. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 391-402	7.9	55
11	Preparation and properties of a starch-based wood adhesive with high bonding strength and water resistance. <i>Carbohydrate Polymers</i> , 2015 , 115, 32-7	10.3	99
10	Effect of starch/polylactic acid ratio on the interdependence of two-phase and the properties of composites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015 , 30, 1108-1114	1	18
9	Effect of annealing on the thermal properties of poly (lactic acid)/starch blends. <i>International Journal of Biological Macromolecules</i> , 2015 , 74, 297-303	7.9	49
8	Aqueous poly(vinyl acetate)-based core/shell emulsion: synthesis, morphology, properties and application. <i>RSC Advances</i> , 2014 , 4, 27363	3.7	20
7	Preparation and characterization of dry method esterified starch/polylactic acid composite materials. <i>International Journal of Biological Macromolecules</i> , 2014 , 64, 174-80	7.9	37
6	Synthesis and characterization of maleic anhydride esterified corn starch by the dry method. <i>International Journal of Biological Macromolecules</i> , 2013 , 62, 241-7	7.9	71
5	Preparation and characterization of film of poly vinyl acetate ethylene copolymer emulsion. <i>Applied Surface Science</i> , 2013 , 276, 223-228	6.7	19

4	Preparation and Characterization of Blocked PAPI with Sodium Bisulfate. <i>Journal of Adhesion Science and Technology</i> , 2012 , 26, 1685-1698	2	9
3	Straw based particleboard bonded with composite adhesives. <i>BioResources</i> , 2011 , 6, 464-476	1.3	16
2	Nondestructive test and prediction of modulus of elasticity of veneer-overlaid particleboard composite. <i>Wood Science and Technology</i> , 2005 , 39, 439-447	2.5	16
1	Preparation of isocyanate microcapsules by interfacial polymerization/in-situ polymerization and their application in wood adhesives1-17		1