

Hongzhi Liu

List of Publications by Year in descending order

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63
papers

3,215
citations

236925

25
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149698

56
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docs citations

64
times ranked

3447
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ incorporating zwitterionic nanocellulose into polyamide nanofiltration membrane towards excellent perm-selectivity and antifouling performances. <i>Desalination</i> , 2022, 521, 115397.	8.2	32
2	A high-capacity nanocellulose aerogel uniformly immobilized with a high loading of nano-La(OH) ₃ for phosphate removal. <i>Chemical Engineering Journal</i> , 2022, 433, 134439.	12.7	23
3	Highly permeable polyamide nanofiltration membrane incorporated with phosphorylated nanocellulose for enhanced desalination. <i>Journal of Membrane Science</i> , 2022, 647, 120339.	8.2	26
4	A novel bioderived ϵ -CL type monomer from castor oil derivative for the preparation of fully biobased hyperbranched polyesters. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	1
5	Highly fibrillated and intrinsically flame-retardant nanofibrillated cellulose for transparent mineral filler-free fire-protective coatings. <i>Chemical Engineering Journal</i> , 2021, 419, 129440.	12.7	32
6	Three-dimensional macroscopic aminosilylated nanocellulose aerogels as sustainable bio-adsorbents for the effective removal of heavy metal ions. <i>International Journal of Biological Macromolecules</i> , 2021, 190, 170-177.	7.5	31
7	Nonleachable Antibacterial Nanocellulose with Excellent Cytocompatible and UV-Shielding Properties Achieved by Counterion Exchange with Nature-Based Phenolic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15755-15767.	6.7	8
8	Inhibited-nanophase-separation modulated polymerization for recoverable ultrahigh-strain biobased shape memory polymers. <i>Materials Horizons</i> , 2020, 7, 2760-2767.	12.2	10
9	Polyethylene glycol grafted with carboxylated graphene oxide as a novel interface modifier for polylactic acid/graphene nanocomposites. <i>Royal Society Open Science</i> , 2020, 7, 192154.	2.4	14
10	Facile and solvent-free synthesis of a novel bio-based hyperbranched polyester with excellent low-temperature flexibility and thermal stability. <i>Industrial Crops and Products</i> , 2020, 148, 112302.	5.2	7
11	Manipulating interphase reactions for mechanically robust, flame-retardant and sustainable polylactide biocomposites. <i>Composites Part B: Engineering</i> , 2020, 190, 107930.	12.0	81
12	Toward Fully Bio-based and Supertough PLA Blends via in Situ Formation of Cross-Linked Biopolyamide Continuity Network. <i>Macromolecules</i> , 2019, 52, 8415-8429.	4.8	88
13	Flame-Retardant and Smoke Suppression Properties of Nano MgAl-LDH Coating on Bamboo Prepared by an In Situ Reaction. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-12.	2.7	14
14	Influence of reactive blending temperature on impact toughness and phase morphologies of PLA ternary blend system containing magnesium ionomer. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47682.	2.6	11
15	Morphological and property characteristics of surface-quaternized nanofibrillated cellulose derived from bamboo pulp. <i>Cellulose</i> , 2019, 26, 1683-1701.	4.9	20
16	Flexible lignin-derived electrospun carbon nanofiber mats as a highly efficient and binder-free counter electrode for dye-sensitized solar cells. <i>Journal of Materials Science</i> , 2018, 53, 7637-7647.	3.7	23
17	Extraordinary toughness enhancement of poly(lactic acid) by incorporating very low loadings of noncovalent functionalized graphene-oxide via masterbatch-based melt blending. <i>Chemical Engineering Journal</i> , 2018, 334, 2014-2020.	12.7	23
18	Recyclable Oil-Absorption Foams via Secondary Phase Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13834-13843.	6.7	39

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19	Effects of Extraction Methods on Anti-Mould Property of Bamboo Strips. <i>BioResources</i> , 2018, 13, .	1.0	10
20	Facile synthesis of thermo-responsive nanogels less than 50Ånm in diameter via soap- and heat-free precipitation polymerization. <i>Journal of Materials Science</i> , 2018, 53, 12056-12064.	3.7	19
21	A reusable surface-quaternized nanocellulose-based hybrid cryogel loaded with N-doped TiO ₂ for self-integrated adsorption/photo-degradation of methyl orange dye. <i>RSC Advances</i> , 2017, 7, 17279-17288.	3.6	24
22	Surface-Tailored Nanocellulose Aerogels with Thiol-Functional Moieties for Highly Efficient and Selective Removal of Hg(II) Ions from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11715-11726.	6.7	135
23	Comparative characteristics of TEMPO-oxidized cellulose nanofibers and resulting nanopapers from bamboo, softwood, and hardwood pulps. <i>Cellulose</i> , 2017, 24, 4831-4844.	4.9	64
24	Charge-functionalized and mechanically durable composite cryogels from Q-NFC and CS for highly selective removal of anionic dyes. <i>Carbohydrate Polymers</i> , 2017, 174, 841-848.	10.2	30
25	Controllable domain morphology in coated poly(lactic acid) films for high-efficiency and high-precision transportation of water droplet arrays. <i>RSC Advances</i> , 2017, 7, 53525-53531.	3.6	13
26	Review on the Aerogel-Type Oil Sorbents Derived from Nanocellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 49-66.	6.7	270
27	Preparation and characteristics of TEMPO-oxidized cellulose nanofibrils from bamboo pulp and their oxygen-barrier application in PLA films. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 554-563.	4.4	44
28	Preparation and Characterization of Aldehyde-Functionalized Cellulosic Fibers through Periodate Oxidization of Bamboo Pulp. <i>BioResources</i> , 2016, 11, .	1.0	21
29	Novel Polyamide 6/Polystyrene In Situ Microfibrillar Blends Prepared by Anionic Polymerization of μ -Caprolactam via Reactive Extrusion. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1242-1247.	3.6	8
30	Thermo-responsive and compression properties of TEMPO-oxidized cellulose nanofiber-modified PNIPAm hydrogels. <i>Carbohydrate Polymers</i> , 2016, 147, 201-207.	10.2	73
31	Effect of surface charge content in the TEMPO-oxidized cellulose nanofibers on morphologies and properties of poly(N-isopropylacrylamide)-based composite hydrogels. <i>Industrial Crops and Products</i> , 2016, 92, 227-235.	5.2	45
32	Ploy (lactic acid)/organo-modified montmorillonite nanocomposites for improved eletret properties. <i>Journal of Electrostatics</i> , 2016, 80, 17-21.	1.9	8
33	Morphology, healing and mechanical performance of nanofibrillated cellulose reinforced poly(μ -caprolactone)/epoxy composites. <i>Composites Science and Technology</i> , 2016, 125, 62-70.	7.8	46
34	Nonsolvent-assisted fabrication of multi-scaled polylactide as superhydrophobic surfaces. <i>Soft Matter</i> , 2016, 12, 2766-2772.	2.7	27
35	A novel biodegradable hyperbranched polyester prepared from cellulose and tyrosine via the synthesis route of glycopeptides. <i>Polymer Chemistry</i> , 2015, 6, 2822-2826.	3.9	2
36	Synthesis, anti-oxidant activity, and biodegradability of a novel recombinant polysaccharide derived from chitosan and lactose. <i>Carbohydrate Polymers</i> , 2015, 118, 218-223.	10.2	28

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37	Use of eugenol and rosin as feedstocks for biobased epoxy resins and study of curing and performance properties. <i>Polymer International</i> , 2014, 63, 760-765.	3.1	143
38	Effects of Polyoxymethylene as a Polymeric Nucleating Agent on the Isothermal Crystallization and Visible Transmittance of Poly(lactic acid). <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16754-16762.	3.7	19
39	Effects of Metal Ion Type on Ionomer-Assisted Reactive Toughening of Poly(lactic acid). <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4787-4793.	3.7	26
40	Toughening Modification of Poly(lactic acid) via Melt Blending. <i>ACS Symposium Series</i> , 2012, , 27-46.	0.5	7
41	Compatibilizing Effects of Maleated Poly(lactic acid) (PLA) on Properties of PLA/Soy Protein Composites. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7786-7792.	3.7	79
42	Effects of reactive blending temperature on impact toughness of poly(lactic acid) ternary blends. <i>Polymer</i> , 2012, 53, 272-276.	3.8	57
43	Effects of ionomer characteristics on reactions and properties of poly(lactic acid) ternary blends prepared by reactive blending. <i>Polymer</i> , 2012, 53, 2476-2484.	3.8	49
44	Interaction of Microstructure and Interfacial Adhesion on Impact Performance of Polylactide (PLA) Ternary Blends. <i>Macromolecules</i> , 2011, 44, 1513-1522.	4.8	283
45	Bio-based nanocomposites by in situ cure of phenolic prepolymers with cellulose whiskers. <i>Cellulose</i> , 2011, 18, 619-630.	4.9	35
46	Research progress in toughening modification of poly(lactic acid). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 1051-1083.	2.1	620
47	Rice straw fiber reinforced high density polyethylene composite: Effect of coupled compatibilizing and toughening treatment. <i>Journal of Applied Polymer Science</i> , 2011, 119, 2214-2222.	2.6	24
48	Different Effects of Water and Glycerol on Morphology and Properties of Poly(lactic acid)/Soy Protein Concentrate Blends. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 123-129.	3.6	9
49	A novel wood flour-filled composite based on microfibrillar high-density polyethylene (HDPE)/Nylon-6 blends. <i>Bioresource Technology</i> , 2010, 101, 3295-3297.	9.6	24
50	Super Toughened Poly(lactic acid) Ternary Blends by Simultaneous Dynamic Vulcanization and Interfacial Compatibilization. <i>Macromolecules</i> , 2010, 43, 6058-6066.	4.8	279
51	Synergetic Effect of Dual Compatibilizers on in Situ Formed Poly(Lactic Acid)/Soy Protein Composites. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6399-6406.	3.7	47
52	Novel multimonomer-grafted polypropylene preparation and application in polypropylene/poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.6	3
53	Effect of ionomer on clay dispersions in polypropylene-layered silicate nanocomposites. <i>Journal of Applied Polymer Science</i> , 2007, 104, 4024-4034.	2.6	17
54	Crystallization Behaviors of Polypropylene/Polyamide-6 Blends Modified by a Maleated Thermoplastic Elastomer. <i>Polymer Journal</i> , 2006, 38, 21-30.	2.7	25

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55	Preparation and characterization of thermoplastic polyurethane elastomer and polyamide 6 blends by in situ anionic ring-opening polymerization of ϵ -caprolactam. <i>Polymer Engineering and Science</i> , 2006, 46, 1196-1203.	3.1	19
56	Phase morphology development in PP/PA6 blends induced by a maleated thermoplastic elastomer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1050-1061.	2.1	13
57	Toughening and compatibilization of polypropylene/polyamide-6 blends with a maleated grafted ethylene-co-vinyl acetate. <i>Journal of Applied Polymer Science</i> , 2006, 99, 3300-3307.	2.6	18
58	Property transitions in high-density polyethylene/maleated poly(ethylene octene)/calcium carbonate ternary composites. <i>Journal of Applied Polymer Science</i> , 2006, 101, 3361-3366.	2.6	7
59	EFFECT OF INTERFACIAL INTERACTION ON THE TOUGHNESS OF HDPE/POEg/CaCO ₃ TERNARY COMPOSITES. <i>Acta Polymerica Sinica</i> , 2006, 006, 53-58.	0.0	3
60	Melting behavior and nonisothermal crystallization kinetics of polyamide 6/polyamide 66 molecular composites via in situ polymerization. <i>Journal of Applied Polymer Science</i> , 2005, 98, 2172-2177.	2.6	16
61	Synergistically toughening high-density polyethylene with calcium carbonate and elastomer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3213-3221.	2.1	11
62	Isothermal and nonisothermal crystallization kinetics of a semicrystalline copolyterephthalamide based on poly(decamethylene terephthalamide). <i>Journal of Applied Polymer Science</i> , 2004, 94, 819-826.	2.6	17
63	Dynamic Rheological Properties of Polypropylene/Polyamide-6 Blends Modified with a Maleated Thermoplastic Elastomer. <i>Polymer Journal</i> , 2004, 36, 754-760.	2.7	12