

Lu Cui

List of Publications by Year in descending order

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87
papers

3,146
citations

168829

31
h-index

190340

53
g-index

90
all docs

90
docs citations

90
times ranked

3129
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystalline structure and reinforcement in hybrid PP composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 145-154.	2.0	6
2	Pomegranate extract for the processing stabilization of polyethylene. <i>Journal of Vinyl and Additive Technology</i> , 2022, 28, 321-330.	1.8	7
3	Impact modification of hybrid polypropylene composites with poly(vinyl alcohol) fibers. <i>Journal of Reinforced Plastics and Composites</i> , 2022, 41, 399-410.	1.6	1
4	Improved Release of a Drug with Poor Water Solubility by Using Electrospun Water-Soluble Polymers as Carriers. <i>Pharmaceutics</i> , 2022, 14, 34.	2.0	14
5	Quantitative analysis of factors determining the enzymatic degradation of poly(lactic acid). <i>International Journal of Biological Macromolecules</i> , 2022, 209, 1703-1709.	3.6	10
6	Melt stabilization of polyethylene with natural antioxidants: comparison of a natural extract and its main component. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 67-75.	2.0	7
7	The role of ionic clusters in the determination of the properties of partially neutralized ethylene-acrylic acid ionomers. <i>European Polymer Journal</i> , 2021, 142, 110110.	2.6	14
8	Effect of various organic fibers on the stiffness, strength and impact resistance of polypropylene; a comparison. <i>Polymer International</i> , 2021, 70, 145-153.	1.6	14
9	Impact modification of fiber reinforced polypropylene composites with flexible poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.6	8
10	Biobased PLA/sugarcane bagasse fiber composites: Effect of fiber characteristics and interfacial adhesion on properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 143, 106273.	3.8	38
11	Improvement of the impact resistance of natural fiber reinforced polypropylene composites through hybridization. <i>Polymers for Advanced Technologies</i> , 2021, 32, 2499-2507.	1.6	14
12	Rheology of PLA/regenerated cellulose nanocomposites prepared by the pickering emulsion process: Network formation and modeling. <i>Materials and Design</i> , 2021, 206, 109774.	3.3	13
13	Ring-opening polymerization of ϵ -caprolactone from cellulose acetate by reactive processing. <i>Cellulose</i> , 2021, 28, 9103-9116.	2.4	5
14	Entrapment of Phenylalanine Ammonia-Lyase in Nanofibrous Polylactic Acid Matrices by Emulsion Electrospinning. <i>Catalysts</i> , 2021, 11, 1149.	1.6	6
15	Physical and Chemical Aspects of the Preparation and Drug Release of Electrospun Scaffolds. <i>Pharmaceutics</i> , 2021, 13, 1645.	2.0	4
16	Poly- ϵ -Caprolactone/Halloysite Nanotube Composites for Resorbable Scaffolds: Effect of Processing Technology on Homogeneity and Electrospinning. <i>Polymers</i> , 2021, 13, 3772.	2.0	0
17	Controlled degradation of poly- ϵ -caprolactone for resorbable scaffolds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 186, 110678.	2.5	14
18	Physical ageing of Poly(Lactic acid): Factors and consequences for practice. <i>Polymer</i> , 2020, 186, 122014.	1.8	32

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19	Coupling of PMMA to the surface of a layered silicate by intercalative polymerization: processes, structure and properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 601, 124979.	2.3	7
20	Quantitative determination of release kinetics from fibrous poly(3-hydroxybutyrate) scaffolds. <i>Materials Science and Engineering C</i> , 2020, 114, 111026.	3.8	3
21	Reinforcement of PP with polymer fibers: Effect of matrix characteristics, fiber type and interfacial adhesion. <i>Polymer</i> , 2020, 190, 122203.	1.8	17
22	<p>Electrospun PLA Fibers Containing Metronidazole for Periodontal Disease</p>. <i>Drug Design, Development and Therapy</i> , 2020, Volume 14, 233-242.	2.0	18
23	Poly(lactic acid)/cellulose nanocrystal composites via the Pickering emulsion approach: Rheological, thermal and mechanical properties. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 197-204.	3.6	63
24	Enzymatic degradation of PLA/cellulose nanocrystal composites. <i>Industrial Crops and Products</i> , 2019, 141, 111799.	2.5	62
25	Deformation and failure of sugarcane bagasse reinforced PP. <i>European Polymer Journal</i> , 2019, 112, 153-160.	2.6	34
26	The role of enzyme adsorption in the enzymatic degradation of an aliphatic polyester. <i>Enzyme and Microbial Technology</i> , 2019, 120, 110-116.	1.6	8
27	Impact modification of PP/wood composites: A new approach using hybrid fibers. <i>EXPRESS Polymer Letters</i> , 2019, 13, 223-234.	1.1	31
28	Separation and kinetic analysis of the thermo-oxidative reactions of polyacrylonitrile upon heat treatment. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 1371-1378.	2.0	7
29	Melt stabilization of PE with natural antioxidants: Comparison of rutin and quercetin. <i>European Polymer Journal</i> , 2018, 103, 228-237.	2.6	21
30	Hips/zeolite hybrid composites as active packaging materials: Structure and functional properties. <i>European Polymer Journal</i> , 2018, 103, 88-94.	2.6	8
31	Enzymatic degradation of poly-[(R)-3-hydroxybutyrate]: Mechanism, kinetics, consequences. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 156-162.	3.6	22
32	Hydrogen bonding interactions in poly(ethylene-co-vinyl alcohol)/lignin blends. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 1203-1211.	3.6	26
33	Correlations among Miscibility, Structure, and Properties in Thermoplastic Polymer/Lignin Blends. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14323-14331.	3.2	38
34	The novel technique of vapor pressure analysis to monitor the enzymatic degradation of PHB by HPLC chromatography. <i>Analytical Biochemistry</i> , 2017, 521, 20-27.	1.1	5
35	Determination of the specific surface area of layered silicates by methylene blue adsorption: The role of structure, pH and layer charge. <i>Applied Clay Science</i> , 2017, 146, 50-55.	2.6	64
36	Natural antioxidants as melt stabilizers for PE: Comparison of silymarin and quercetin. <i>European Polymer Journal</i> , 2017, 90, 456-466.	2.6	16

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37	Coupling of poly(lactic acid) with a polyurethane elastomer by reactive processing. <i>European Polymer Journal</i> , 2017, 97, 409-417.	2.6	15
38	Competitive interactions, structure and properties in polymer/layered silicate nanocomposites. <i>EXPRESS Polymer Letters</i> , 2017, 11, 479-492.	1.1	20
39	Adsorption of an active molecule on the surface of halloysite for controlled release application: Interaction, orientation, consequences. <i>Applied Clay Science</i> , 2016, 132-133, 167-174.	2.6	13
40	Improvement of the impact strength of ethylene-propylene random copolymers by nucleation. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	16
41	Fracture resistance of hybrid PP/elastomer/wood composites. <i>Composite Structures</i> , 2016, 141, 146-154.	3.1	40
42	Competitive interactions and controlled release of a natural antioxidant from halloysite nanotubes. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 123-129.	5.0	10
43	Physical ageing and molecular mobility in PLA blends and composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 1423-1433.	2.0	35
44	Efficiency of curcumin, a natural antioxidant, in the processing stabilization of PE: Concentration effects. <i>Polymer Degradation and Stability</i> , 2015, 118, 17-23.	2.7	28
45	Effect of desiccant characteristics on the properties of PS/zeolite functional packaging materials. <i>Polymer Composites</i> , 2014, 35, 2112-2120.	2.3	12
46	Study of the effect of natural antioxidants in polyethylene: Performance of Î²-carotene. <i>Polymer Degradation and Stability</i> , 2014, 102, 33-40.	2.7	39
47	Efficient melt stabilization of polyethylene with quercetin, a flavonoid type natural antioxidant. <i>Polymer Degradation and Stability</i> , 2014, 102, 41-48.	2.7	61
48	PLA/lignocellulosic fiber composites: Particle characteristics, interfacial adhesion, and failure mechanism. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	52
49	Wood fiber reinforced multicomponent, multiphase PP composites: Structure, properties, failure mechanism. <i>Composites Science and Technology</i> , 2014, 103, 106-112.	3.8	22
50	Chain regularity of isotactic polypropylene determined by different thermal fractionation methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 235-245.	2.0	17
51	The role of solubility and critical temperatures for the efficiency of sorbitol clarifiers in polypropylene. <i>RSC Advances</i> , 2014, 4, 19737-19745.	1.7	31
52	Thermoplastic starch/wood composites: Interfacial interactions and functional properties. <i>Carbohydrate Polymers</i> , 2014, 102, 821-829.	5.1	46
53	Functional packaging materials: factors affecting the capacity and rate of water adsorption in desiccant composites. <i>Journal of Polymer Research</i> , 2013, 20, 1.	1.2	17
54	Effect of molecular architecture on the crystalline structure and stiffness of iPP homopolymers: Modeling based on annealing experiments. <i>Journal of Applied Polymer Science</i> , 2013, 130, 3365-3373.	1.3	28

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55	Effect of Clay Modification on the Mechanism of Local Deformations in PA6 Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 796-805.	1.7	3
56	Tensile and impact properties of three-component PP/wood/elastomer composites. <i>EXPRESS Polymer Letters</i> , 2012, 6, 224-236.	1.1	56
57	Adhesion and micromechanical deformation processes in PLA/CaSO ₄ composites. <i>Carbohydrate Polymers</i> , 2012, 89, 759-767.	5.1	28
58	Hierarchical structure of phase-separated segmented polyurethane elastomers and its effect on properties. <i>Polymer International</i> , 2011, 60, 529-536.	1.6	26
59	Atomic force microscopy based quantitative mapping of elastic moduli in phase separated polyurethanes and silica reinforced rubbers across the length scales. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1318, 1.	0.1	0
60	Micromechanical deformation processes in PP/wood composites: Particle characteristics, adhesion, mechanisms. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1653-1661.	3.8	86
61	Modification of cellulose acetate with oligomeric polycaprolactone by reactive processing: Efficiency, compatibility, and properties. <i>Journal of Applied Polymer Science</i> , 2009, 113, 3255-3263.	1.3	10
62	Thermal analysis of the structure of segmented polyurethane elastomers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 98, 825.	2.0	27
63	Deformation and failure of PP composites reinforced with lignocellulosic fibers: Effect of inherent strength of the particles. <i>Composites Science and Technology</i> , 2009, 69, 1653-1659.	3.8	63
64	Factors affecting the properties of PLA/CaSO ₄ composites: homogeneity and interactions. <i>EXPRESS Polymer Letters</i> , 2009, 3, 49-61.	1.1	40
65	Network Formation in PP/Layered Silicate Nanocomposites: Modeling and Analysis of Rheological Properties. <i>Macromolecular Symposia</i> , 2008, 267, 47-51.	0.4	9
66	Quantitative Characterization of the Structure of PP/Layered Silicate Nanocomposites at Various Length Scales. <i>Macromolecular Symposia</i> , 2008, 267, 52-56.	0.4	2
67	Aggregation of CaCO ₃ particles in PP composites: Effect of surface coating. <i>Composites Science and Technology</i> , 2007, 67, 1574-1583.	3.8	100
68	Micromechanical deformation processes in PA/layered silicate nanocomposites: Correlation of structure and properties. <i>Polymer Engineering and Science</i> , 2007, 47, 1235-1245.	1.5	16
69	Wood flour filled polypropylene composites: Interfacial adhesion and micromechanical deformations. <i>Polymer Engineering and Science</i> , 2007, 47, 1246-1255.	1.5	88
70	External and internal plasticization of cellulose acetate with caprolactone: Structure and properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 873-883.	2.4	45
71	Surface Characteristics of Layered Silicates: Influence on the Properties of Clay/Polymer Nanocomposites. <i>Langmuir</i> , 2006, 22, 7848-7854.	1.6	91
72	Poly(propylene)/montmorillonite/polypyrrole composites: structure and conductivity. <i>Polymers for Advanced Technologies</i> , 2006, 17, 715-726.	1.6	25

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73	Wood flour filled PP composites: adhesion, deformation, failure. <i>Polymers for Advanced Technologies</i> , 2006, 17, 967-974.	1.6	73
74	Viscoelastic properties of exfoliated polyamide-6/layered silicate nanocomposite. <i>Journal of Materials Science</i> , 2006, 41, 1843-1846.	1.7	11
75	Morphology Characterization of PP/Clay Nanocomposites Across the Length Scales of the Structural Architecture. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 858-868.	1.7	57
76	Formation and Detection of Clay Network Structure in Poly(propylene)/Layered Silicate Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2006, 27, 132-135.	2.0	53
77	High-density polyethylene/ultrahigh-molecular-weight polyethylene blend. I. The processing, thermal, and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2005, 97, 413-425.	1.3	87
78	Controlling the Deintercalation in Hydrogenated Nitrile Rubber (HNBR)/Organo-Montmorillonite Nanocomposites by Curing with Peroxide. <i>Macromolecular Rapid Communications</i> , 2005, 26, 915-919.	2.0	70
79	Comparison of the mechanical properties and interfacial interactions between talc, kaolin, and calcium carbonate filled polypropylene composites. <i>Journal of Applied Polymer Science</i> , 2004, 91, 3315-3326.	1.3	245
80	Morphology and Properties of Particulate Filled Polymers. <i>Macromolecular Symposia</i> , 2004, 214, 115-134.	0.4	55
81	Aggregation of particulate fillers: factors, determination, properties. <i>Macromolecular Symposia</i> , 2003, 194, 111-124.	0.4	20
82	Quantitative analysis of functional groups in HDPE powder by DRIFT spectroscopy. <i>Macromolecular Symposia</i> , 2003, 202, 97-116.	0.4	15
83	NUCLEATING EFFECT OF MONTMORILLONITE NANOPARTICLES IN POLYPROPYLENE. <i>Journal of Macromolecular Science - Physics</i> , 2002, 41, 1249-1265.	0.4	80
84	ON THE DEPENDENCE OF IMPACT BEHAVIOR ON THE CRYSTALLINE MORPHOLOGY IN POLYPROPYLENES. <i>Journal of Macromolecular Science - Physics</i> , 2002, 41, 1105-1119.	0.4	12
85	Modeling the Effect of a Soft Interlayer on the Stress Distribution around Fibers: Longitudinal and Transverse Loading. <i>Macromolecular Materials and Engineering</i> , 2002, 287, 139-148.	1.7	10
86	Miscibility-property correlations in blends of glassy amorphous polymers. <i>Macromolecular Symposia</i> , 2001, 170, 9-20.	0.4	17
87	Influence of interface interaction on the ultimate tensile properties of polymer composites. <i>Composites</i> , 1990, 21, 255-262.	0.9	452