Lin Dai

List of Publications by Year in Descending Order

71 papers	1,767 citations	26 h-index	39 g-index
77 ext. papers	2,444 ext. citations	6.8 avg, IF	5.61 L-index

#	Paper	IF	Citations
71	Alkylation modification for lignin color reduction and molecular weight adjustment.. *International Journal of Biological Macromolecules*, **2022**, 201, 400-410	7.9	1
70	Lignin nanoparticles for hydrogel-based pressure sensor. *Industrial Crops and Products*, **2022**, 176, 114366	5.9	6
69	A Rapid and Reversible pH Control Process for the Formation and Dissociation of Lignin Nanoparticles.. *ChemSusChem*, **2022**, e202200449	8.3	0
68	Multifunctional Lignin-Silver Nanoparticles for Accelerating Polymerization and Cross-Linking of Sodium Polyacrylate. *ACS Applied Polymer Materials*, **2022**, 4, 2140-2148	4.3	1
67	Combined bactericidal process of lignin and silver in a hybrid nanoparticle on .. *Advanced Composites and Hybrid Materials*, **2022**, 1-11	8.7	0
66	Enabling dual valorization of lignocellulose by fluorescent lignin carbon dots and biochar-supported persulfate activation: Towards waste-treats-pollutant. *Journal of Hazardous Materials*, **2022**, 435, 129072	12.8	1
65	Lignin fractionation-inspired carbon dots to enable trimodule fluorescent sensing of pH, silver ion and cysteine. *Industrial Crops and Products*, **2022**, 185, 115127	5.9	0
64	pH-Responsive Lignin Hydrogel for Lignin Fractionation. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 13972-13978	8.3	3
63	A lignocellulose-based nanocomposite hydrogel with pH-sensitive and potent antibacterial activity for wound healing. *International Journal of Biological Macromolecules*, **2021**, 191, 1249-1254	7.9	3
62	Green and stable piezoresistive pressure sensor based on lignin-silver hybrid nanoparticles/polyvinyl alcohol hydrogel. *International Journal of Biological Macromolecules*, **2021**, 176, 78-86	7.9	16
61	Tandem Character of Liquid Hot Water and Deep Eutectic Solvent to Enhance Lignocellulose Deconstruction. *ChemSusChem*, **2021**, 14, 2740-2748	8.3	13
60	A flow-through reactor for fast fractionation and production of structure-preserved lignin. *Industrial Crops and Products*, **2021**, 164, 113350	5.9	5
59	Cellulose-assisted construction of high surface area Z-scheme C-doped g-CN/WO for improved tetracycline degradation. *Carbohydrate Polymers*, **2021**, 255, 117343	10.3	19
58	Novel and Efficient Lignin Fractionation Processes for Tailing Lignin-Based Materials **2021**, 363-387		
57	Lignin-based materials for drug and gene delivery **2021**, 327-370		0
56	A well-defined lignin-based filler for tuning the mechanical properties of polymethyl methacrylate. *Green Chemistry*, **2021**, 23, 2329-2335	10	19
55	A scalable waste-free biorefinery inspires revenue from holistic lignocellulose valorization. *Green Chemistry*, **2021**, 23, 6008-6019	10	3

54	A multifunctional nanocellulose-based hydrogel for strain sensing and self-powering applications. *Carbohydrate Polymers*, **2021**, 268, 118210	10.3	10
53	A functional lignin-based nanofiller for flame-retardant blend. *International Journal of Biological Macromolecules*, **2021**, 190, 390-395	7.9	4
52	Size-controlled lignin nanoparticles for tuning the mechanical properties of poly(vinyl alcohol). *Industrial Crops and Products*, **2021**, 172, 114012	5.9	10
51	Towards a waste-free biorefinery: A cascade valorization of bamboo for efficient fractionation, enzymatic hydrolysis and lithium-sulfur cathode. *Industrial Crops and Products*, **2020**, 149, 112364	5.9	12
50	All-Lignin-Based Hydrogel with Fast pH-Stimuli Responsiveness for Mechanical Switching and Actuation. *Chemistry of Materials*, **2020**, 32, 4324-4330	9.6	55
49	Lignin-Based Micro- and Nanomaterials and their Composites in Biomedical Applications. *ChemSusChem*, **2020**, 13, 4266-4283	8.3	52
48	A simple and effective approach to fabricate lignin nanoparticles with tunable sizes based on lignin fractionation. *Green Chemistry*, **2020**, 22, 2011-2017	10	55
47	Novel lignin-based phenolic nanosphere supported palladium nanoparticles with highly efficient catalytic performance and good reusability. *Industrial Crops and Products*, **2020**, 145, 112164	5.9	56
46	High efficient recovery of L-lactide with lignin-based filler by thermal degradation. *Industrial Crops and Products*, **2020**, 143, 111954	5.9	32
45	Conductive cellulose nanofibrils-reinforced hydrogels with synergetic strength, toughness, self-adhesion, flexibility and adjustable strain responsiveness. *Carbohydrate Polymers*, **2020**, 250, 117010	10.3	26
44	Biomass Fractionation and Lignin Fractionation towards Lignin Valorization. *ChemSusChem*, **2020**, 13, 4284-4295	8.3	72
43	Lignin-Based Nanoparticles Stabilized Pickering Emulsion for Stability Improvement and Thermal-Controlled Release of trans-Resveratrol. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 13497-13504	8.3	60
42	Fabrication of thermo- and pH-sensitive cellulose nanofibrils-reinforced hydrogel with biomass nanoparticles. *Carbohydrate Polymers*, **2019**, 215, 289-295	10.3	46
41	Green mussel-inspired lignin magnetic nanoparticles with high adsorptive capacity and environmental friendliness for chromium(III) removal. *International Journal of Biological Macromolecules*, **2019**, 132, 478-486	7.9	33
40	Reversible photo-controlled release of bovine serum albumin by azobenzene-containing cellulose nanofibrils-based hydrogel. *Advanced Composites and Hybrid Materials*, **2019**, 2, 462-470	8.7	21
39	A lignin-containing cellulose hydrogel for lignin fractionation. *Green Chemistry*, **2019**, 21, 5222-5230	10	54
38	Lignin-containing cellulose nanocrystals/sodium alginate beads as highly effective adsorbents for cationic organic dyes. *International Journal of Biological Macromolecules*, **2019**, 139, 640-646	7.9	19
37	Improving dispersion stability of hydrochloric acid hydrolyzed cellulose nano-crystals. *Carbohydrate Polymers*, **2019**, 222, 115037	10.3	21

36	A Facile Preparation of Super Long-Term Stable Lignin Nanoparticles from Black Liquor. *ChemSusChem*, **2019**, 12, 5239	8.3	36
35	Recent Advances on Cellulose-Based Nano-Drug Delivery Systems: Design of Prodrugs and Nanoparticles. *Current Medicinal Chemistry*, **2019**, 26, 2410-2429	4.3	22
34	A Facile Preparation of Super Long-Term Stable Lignin Nanoparticles from Black Liquor. *ChemSusChem*, **2019**, 12, 5216	8.3	2
33	A novel functional lignin-based filler for pyrolysis and feedstock recycling of poly(L-lactide). *Green Chemistry*, **2018**, 20, 1777-1783	10	42
32	A novel self-assembled pH-sensitive targeted nanoparticle platform based on antibody-4arm-polyethylene glycol-pterostilbene conjugates for co-delivery of anticancer drugs. *Journal of Materials Chemistry B*, **2018**, 6, 656-665	7.3	6
31	Antibacterial and hemostatic hydrogel via nanocomposite from cellulose nanofibers. *Carbohydrate Polymers*, **2018**, 195, 63-70	10.3	106
30	Lignin-Containing Self-Nanoemulsifying Drug Delivery System for Enhance Stability and Oral Absorption of trans-Resveratrol. *Particle and Particle Systems Characterization*, **2018**, 35, 1700447	3.1	14
29	"Nano-Ginseng" for Enhanced Cytotoxicity AGAINST Cancer Cells. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	9
28	Drug-loaded poly(L-lactide)/lignin stereocomplex film for enhancing stability and sustained release of trans-resveratrol. *International Journal of Biological Macromolecules*, **2018**, 119, 1129-1136	7.9	20
27	Multifunctional pH-Responsive Sprayable Hydrogel Based on Chitosan and Lignin-Based Nanoparticles. *Particle and Particle Systems Characterization*, **2018**, 35, 1800145	3.1	14
26	Mussel-Inspired Cellulose-Based Nanocomposite Fibers for Adsorption and Photocatalytic Degradation. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15756-15763	8.3	33
25	Self-assembled PEG□arboxymethylcellulose nanoparticles/□yclodextrin hydrogels for injectable and thermosensitive drug delivery. *RSC Advances*, **2017**, 7, 2905-2912	3.7	21
24	Fabrication of high-performance poly(l-lactic acid)/lignin-graft-poly(d-lactic acid) stereocomplex films. *Materials Science and Engineering C*, **2017**, 80, 397-403	8.3	28
23	Injectable and thermosensitive supramolecular hydrogels by inclusion complexation between binary-drug loaded micelles and □yclodextrin. *Materials Science and Engineering C*, **2017**, 76, 966-974	8.3	23
22	Lignin Nanoparticle as a Novel Green Carrier for the Efficient Delivery of Resveratrol. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 8241-8249	8.3	195
21	Cellulose-graft-poly(methyl methacrylate) nanoparticles with high biocompatibility for hydrophobic anti-cancer drug delivery. *Materials Letters*, **2017**, 207, 213-216	3.3	22
20	Lignin-graft-poly(acrylic acid) for enhancement of heavy metal ion biosorption. *Journal of Materials Science*, **2017**, 52, 13689-13699	4.3	19
19	Simple and green fabrication of AgCl/Ag-cellulose paper with antibacterial and photocatalytic activity. *Carbohydrate Polymers*, **2017**, 174, 450-455	10.3	27

18	Self-assembled targeted nanoparticles based on transferrin-modified eight-arm-polyethylene glycol-dihydroartemisinin conjugate. *Scientific Reports*, **2016**, 6, 29461	4.9	45
17	Characterization of adsorbent microspheres of cellulose and acrylic acid and its adsorption behaviors for metal ions. *Desalination and Water Treatment*, **2016**, 57, 5821-5827		4
16	Ginsenoside nanoparticle: a new green drug delivery system. *Journal of Materials Chemistry B*, **2016**, 4, 529-538	7.3	31
15	A novel self-assembled targeted nanoparticle platform based on carboxymethylcellulose co-delivery of anticancer drugs. *Journal of Materials Chemistry B*, **2015**, 3, 6605-6617	7.3	34
14	A self-assembled nanoparticle platform based on poly(ethylene glycol)–diosgenin conjugates for co-delivery of anticancer drugs. *RSC Advances*, **2015**, 5, 74828-74834	3.7	11
13	A surfactant template-assisted strategy for synthesis of ZIF-8 hollow nanospheres. *Materials Letters*, **2015**, 161, 682-685	3.3	17
12	Design, synthesis and in vivo antitumor efficacy of novel eight-arm-polyethylene glycol–pterostilbene prodrugs. *RSC Advances*, **2015**, 5, 51592-51599	3.7	11
11	Self-assembled targeted folate-conjugated eight-arm-polyethylene glycol-betulinic acid nanoparticles for co-delivery of anticancer drugs. *Journal of Materials Chemistry B*, **2015**, 3, 3754-3766	7.3	41
10	Self-assembled serum albumin–poly(L-lactic acid) nanoparticles: a novel nanoparticle platform for drug delivery in cancer. *RSC Advances*, **2015**, 5, 15612-15620	3.7	24
9	Novel multiarm polyethylene glycol-dihydroartemisinin conjugates enhancing therapeutic efficacy in non-small-cell lung cancer. *Scientific Reports*, **2014**, 4, 5871	4.9	40
8	Study on thermal degradation kinetics of cellulose-graft-poly(l-lactic acid) by thermogravimetric analysis. *Polymer Degradation and Stability*, **2014**, 99, 233-239	4.7	44
7	Water soluble multiarm-polyethylene glycol–betulinic acid prodrugs: design, synthesis, and in vivo effectiveness. *Polymer Chemistry*, **2014**, 5, 5775-5783	4.9	27
6	Fabrication of ZIF-8@super-macroporous poly(glycidyl methacrylate) microspheres. *Inorganic Chemistry Communication*, **2014**, 50, 65-69	3.1	13
5	Cellulose-graft-poly(l-lactic acid) nanoparticles for efficient delivery of anti-cancer drugs. *Journal of Materials Chemistry B*, **2014**, 2, 6749-6757	7.3	31
4	Synthesis of Cellulose-Graft-Poly (L-Lactide) via Ring-Opening Polymerization and Degradability Research. *Advanced Materials Research*, **2013**, 652-654, 398-401	0.5	1
3	Degradation of graft polymer and blend based on cellulose and poly(L-lactide). *Journal of Applied Polymer Science*, **2013**, 130, 2257-2264	2.9	14
2	Dissolution of Cellulose and Synthesis of Cellulose-Graft-Poly (L-Lactide) via Ring-Opening Polymerization in an Ionic Liquid. *Advanced Materials Research*, **2012**, 476-478, 1897-1900	0.5	2
1	The Synthesis of Cellulose-graft-poly (L-lactide) by Ring-opening Polymerization and the Study of Its Degradability. *Bulletin of the Korean Chemical Society*, **2012**, 33, 4122-4126	1.2	8