Dagang Liu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3027641/publications.pdf

Version: 2024-02-01

50 papers	3,149 citations	201674 27 h-index	189892 50 g-index
51 all docs	51 docs citations	51 times ranked	4054 citing authors

#	Article	IF	Citations
1	Bamboo fiber and its reinforced composites: structure and properties. Cellulose, 2012, 19, 1449-1480.	4.9	288
2	Starch composites reinforced by bamboo cellulosic crystals. Bioresource Technology, 2010, 101, 2529-2536.	9.6	264
3	Transitional properties of starch colloid with particle size reduction from micro- to nanometer. Journal of Colloid and Interface Science, 2009, 339, 117-124.	9.4	233
4	Preparation and characterization of nano-cellulose with new shape from different precursor. Carbohydrate Polymers, 2013, 98, 562-567.	10.2	215
5	Structure and rheology of nanocrystalline cellulose. Carbohydrate Polymers, 2011, 84, 316-322.	10.2	192
6	Effects of cellulose nanofibrils on the structure and properties on PVA nanocomposites. Cellulose, 2013, 20, 2981-2989.	4.9	167
7	Recycled chitosan nanofibril as an effective Cu(II), Pb(II) and Cd(II) ionic chelating agent: Adsorption and desorption performance. Carbohydrate Polymers, 2014, 111, 469-476.	10.2	141
8	Adsorption Behavior of Heavy Metal Ions from Aqueous Solution by Soy Protein Hollow Microspheres. Industrial & Engineering Chemistry Research, 2013, 52, 11036-11044.	3.7	119
9	Cellulose Nanocrystal/Poly(ethylene glycol) Composite as an Iridescent Coating on Polymer Substrates: Structure-Color and Interface Adhesion. ACS Applied Materials & Interfaces, 2016, 8, 32565-32573.	8.0	116
10	Biomimetic soy protein nanocomposites with calcium carbonate crystalline arrays for use as wood adhesive. Bioresource Technology, 2010, 101, 6235-6241.	9.6	114
11	Advances in Proteinous Biomaterials. Journal of Biobased Materials and Bioenergy, 2008, 2, 1-24.	0.3	111
12	Chitin nanofibrils for rapid and efficient removal of metal ions from water system. Carbohydrate Polymers, 2013, 98, 483-489.	10.2	102
13	Recent Progress in Heavy Metal Extraction by Supercritical CO₂ Fluids. Industrial & Engineering Chemistry Research, 2014, 53, 1866-1877.	3.7	80
14	Structure and Properties of Soy Protein Plastics Plasticized with Acetamide. Macromolecular Materials and Engineering, 2006, 291, 820-828.	3.6	74
15	Structureâ€“color mechanism of iridescent cellulose nanocrystal films. RSC Advances, 2014, 4, 39322-39331.	3.6	73
16	Graphene oxide/chitin nanofibril composite foams as column adsorbents for aqueous pollutants. Carbohydrate Polymers, 2016, 144, 230-237.	10.2	69
17	Cholesteric film of Cu(II)-doped cellulose nanocrystals for colorimetric sensing of ammonia gas. Carbohydrate Polymers, 2017, 174, 531-539.	10.2	57
18	Biodegradable Poly(vinyl alcohol) Foams Supported by Cellulose Nanofibrils: Processing, Structure, and Properties. Langmuir, 2014, 30, 9544-9550.	3.5	56

#	Article	IF	Citations
19	Structure and properties of soy protein films plasticized with hydroxyamine. Journal of Applied Polymer Science, 2009, 111, 1549-1556.	2.6	49
20	Liquid crystal microphase separation of cellulose nanocrystals in wet-spun PVA composite fibers. RSC Advances, 2014, 4, 30784.	3.6	41
21	Vapor sensing with color-tunable multilayered coatings of cellulose nanocrystals. Carbohydrate Polymers, 2017, 174, 39-47.	10.2	40
22	Carbon materials derived from chitosan/cellulose cryogel-supported zeolite imidazole frameworks for potential supercapacitor application. Carbohydrate Polymers, 2017, 175, 223-230.	10.2	39
23	Phosphate adsorption and precipitation on calcite under calco-carbonic equilibrium condition. Chemosphere, 2017, 183, 419-428.	8.2	37
24	Structure and Properties of Blend Films Prepared from Castor Oil-Based Polyurethane/Soy Protein Derivative. Industrial & Engineering Chemistry Research, 2008, 47, 9330-9336.	3.7	33
25	Chitosan colloidal suspension composed of mechanically disassembled nanofibers. Journal of Colloid and Interface Science, 2011, 354, 637-643.	9.4	31
26	Preparation and application of magnetic chitosan in environmental remediation and other fields: A review. Journal of Applied Polymer Science, 2021, 138, 51241.	2.6	30
27	Influence of different amides as plasticizer on the properties of soy protein plastics. Journal of Applied Polymer Science, 2007, 106, 130-137.	2.6	29
28	Fiber Alignment and Liquid Crystal Orientation of Cellulose Nanocrystals in the Electrospun Nanofibrous Mats. Biomacromolecules, 2017, 18, 3273-3279.	5.4	24
29	Self-assembled liquid crystal film from mechanically defibrillated chitosan nanofibers. Carbohydrate Polymers, 2011, 84, 686-689.	10.2	22
30	Coreâ€Shell Nanoblends from Soy Protein/Polystyrene by Emulsion Polymerization. Macromolecular Materials and Engineering, 2008, 293, 714-721.	3.6	21
31	Effects of Calcium Carbonate Polymorph on the Structure and Properties of Soy Proteinâ€Based Nanocomposites. Macromolecular Bioscience, 2008, 8, 401-409.	4.1	21
32	Flexible fibers wet-spun from formic acid modified chitosan. Carbohydrate Polymers, 2016, 136, 1137-1143.	10.2	21
33	Mesophase transition of cellulose nanocrystals aroused by the incorporation of two cellulose derivatives. Carbohydrate Polymers, 2020, 233, 115843.	10.2	21
34	Facile Preparation of Soy Protein/Poly(vinyl alcohol) Blend Fibers with High Mechanical Performance by Wet-Spinning. Industrial & Engineering Chemistry Research, 2013, 52, 6177-6181.	3.7	20
35	Plasticizing effects of epoxidized sun flower oil on biodegradable polylactide films: A comparative study. Polymer Science - Series A, 2014, 56, 856-863.	1.0	19
36	Lyotropic liquid crystal self-assembly of H2O2-hydrolyzed chitin nanocrystals. Carbohydrate Polymers, 2018, 196, 66-72.	10.2	19

#	Article	IF	Citations
37	Nanofibrous Mats for Particulate Matter Filtration. Industrial & Engineering Chemistry Research, 2021, 60, 7517-7534.	3.7	17
38	Recent advances in bioâ€sourced polymeric carbohydrate/nanotube composites. Journal of Applied Polymer Science, 2014, 131, .	2.6	16
39	Structure and morphology of fractions separated from mechanical-assisted enzyme hydrolyzed chitin microfibrils. Cellulose, 2015, 22, 1-8.	4.9	15
40	Morphological, Mechanical and Thermal Study of ZnO Nanoparticle Reinforced Chitosan Based Transparent Biocomposite Films. Journal of the Institution of Engineers (India): Series D, 2014, 95, 35-41.	1.0	14
41	Anisotropic Structure and Properties of Chitin and Chitosan Nanofibril-Supported Starch Foams. ACS Sustainable Chemistry and Engineering, 2020, 8, 17387-17396.	6.7	14
42	Selfâ€Assembly of Nano Hydroxyapatite or Aragonite Induced by Molecular Recognition to Soy Globulin 7S or 11S. Macromolecular Rapid Communications, 2009, 30, 1498-1503.	3.9	13
43	Non-isothermal crystallization kinetics of polyvinyl alcohol plasticized with glycerol and pentaerythritol. Journal of Polymer Research, 2020, 27, 1.	2.4	11
44	Chromium (III) coordination capacity of chitosan. International Journal of Biological Macromolecules, 2020, 148, 785-792.	7.5	11
45	Comparative study of carboxylic acid adsorption on calcite: l-malic acid, d-malic acid and succinic acid. Carbonates and Evaporites, 2019, 34, 1131-1139.	1.0	10
46	Structure Color Tuners of Cholesteric Cellulose Nanocrystal. Industrial & Engineering Chemistry Research, 2021, 60, 8776-8787.	3.7	10
47	Liquid Transport in Fibrillar Channels of Ion-Associated Cellular Nanowood Foams. ACS Applied Materials & Interfaces, 2020, 12, 58212-58222.	8.0	9
48	Sustainable iridescence of cast and shear coatings of cellulose nanocrystals. Carbohydrate Polymers, 2021, 273, 118628.	10.2	8
49	Effects of the coagulation temperature on the properties of wetâ€spun poly(vinyl alcohol)â€“graphene oxide fibers. Journal of Applied Polymer Science, 2017, 134, 45463.	2.6	7
50	Microfibrillar Polysaccharide-Derived Biochars as Sodium Benzoate Adsorbents. ACS Omega, 2017, 2, 2959-2966.	3.5	6