Jun Xu

List of Publications by Year
in descending order

105 papers	3,249 citations	126907 33 h-index	182427 51 g-index
106 all docs	106 docs citations	106 times ranked	3534 citing authors

#	Article	IF	Citations
1	Research on cellulose nanocrystals produced from cellulose sources with various polymorphs. RSC Advances, 2017, 7, 33486-33493.	3.6	322
2	A novel visual ratiometric fluorescent sensing platform for highly-sensitive visual detection of tetracyclines by a lanthanide- functionalized palygorskite nanomaterial. Journal of Hazardous Materials, 2018, 342, 158-165.	12.4	119
3	Dual-Mode, Color-Tunable, Lanthanide-Doped Coreâ€“Shell Nanoarchitectures for Anti-Counterfeiting Inks and Latent Fingerprint Recognition. ACS Applied Materials & Interfaces, 2019, 11, 35294-35304.	8.0	113
4	A stick-like intelligent multicolor nano-sensor for the detection of tetracycline: The integration of nano-clay and carbon dots. Journal of Hazardous Materials, 2021, 413, 125296.	12.4	99
5	Structural characterization and antioxidant activities of Bletilla striata polysaccharide extracted by different methods. Carbohydrate Polymers, 2021, 266, 118149.	10.2	90
6	Controlled Release and Long-Term Antibacterial Activity of Dialdehyde Nanofibrillated Cellulose/Silver Nanoparticle Composites. ACS Sustainable Chemistry and Engineering, 2019, 7, 1146-1158.	6.7	85
7	Optimization of coagulationâ€“flocculation process for papermaking-reconstituted tobacco slice wastewater treatment using response surface methodology. Journal of Industrial and Engineering Chemistry, 2014, 20, 391-396.	5.8	69
8	A smartphone-integrated method for visual detection of tetracycline. Chemical Engineering Journal, 2021, 416, 127741.	12.7	69
9	Metal-enhanced fluorescence detection and degradation of tetracycline by silver nanoparticle-encapsulated halloysite nano-lumen. Journal of Hazardous Materials, 2020, 386, 121630.	12.4	68
10	Ultrasensitive and visual detection of tetracycline based on dual-recognition units constructed multicolor fluorescent nano-probe. Journal of Hazardous Materials, 2021, 409, 124935.	12.4	68
11	Ternary copper(II) complexes with amino acid chains and heterocyclic bases: DNA binding, cytotoxic and cell apoptosis induction properties. Journal of Inorganic Biochemistry, 2015, 144, 38-46.	3.5	62
12	A water solvent-assisted condensation polymerization strategy of superhydrophobic lignocellulosic fibers for efficient oil/water separation. Journal of Materials Chemistry A, 2019, 7, 16447-16457.	10.3	61
13	Biodegradable sandwich-architectured films derived from pea starch and polylactic acid with enhanced shelf-life for fruit preservation. Carbohydrate Polymers, 2021, 251, 117117.	10.2	58
14	Pretreatment of pine lignocelluloses by recyclable deep eutectic solvent for elevated enzymatic saccharification and lignin nanoparticles extraction. Carbohydrate Polymers, 2021, 269, 118321.	10.2	57
15	Ultralight, flexible and conductive silver nanowire/nanofibrillated cellulose aerogel for multifunctional strain sensor. Chemical Engineering Journal, 2021, 424, 130565.	12.7	55
16	Chiral Photonic Liquid Crystal Films Derived from Cellulose Nanocrystals. Small, 2021, 17, e2007306.	10.0	54
17	Facile ratiometric fluorapatite nanoprobes for rapid and sensitive bacterial spore biomarker detection. Biosensors and Bioelectronics, 2017, 87, 991-997.	10.1	53
18	Preparation, characterization and acetylation of cellulose nanocrystal allomorphs. Cellulose, 2018, 25, 4905-4918.	4.9	53

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19	Preparation of nanocellulose in high yield via chemi-mechanical synergy. Carbohydrate Polymers, 2021, 251, 117094.	10.2	50
20	Thermal pyrolysis characteristics and kinetics of hemicellulose isolated from Camellia Oleifera Shell. Bioresource Technology, 2019, 282, 228-235.	9.6	47
21	Scalable and Robust Bacterial Cellulose Carbon Aerogels as Reusable Absorbents for High-Efficiency Oil/Water Separation. ACS Applied Bio Materials, 2020, 3, 7483-7491.	4.6	45
22	Synthesis, crystal structures, DNA-binding properties, cytotoxic and antioxidation activities of several new ternary copper(II) complexes of N,Nâ€²-(p-xylylene)di-alanine acid and 1,10-phenanthroline. Inorganica Chimica Acta, 2010, 363, 855-865.	2.4	44
23	Synthesis, characterization, and antitumor activity of three ternary dinuclear copper (II) complexes with a reduced Schiff base ligand and diimine coligands in vitro and in vivo. Journal of Inorganic Biochemistry, 2016, 159, 107-119.	3.5	44
24	A Ratiometric Fluorescent Nano-Probe for Rapid and Specific Detection of Tetracycline Residues Based on a Dye-Doped Functionalized Nanoscaled Metalâ€“Organic Framework. Nanomaterials, 2019, 9, 976.	4.1	44
25	Deconstruction of cellulosic fibers to fibrils based on enzymatic pretreatment. Bioresource Technology, 2018, 267, 426-430.	9.6	43
26	Thermal pyrolysis characteristics of macroalgae Cladophora glomerata. Bioresource Technology, 2017, 243, 212-217.	9.6	42
27	A smartphone-integrated multicolor fluorescence probe of bacterial spore biomarker: The combination of natural clay material and metal-organic frameworks. Journal of Hazardous Materials, 2021, 402, 123776.	12.4	40
28	Flexible and Hierarchical 3D Interconnected Silver Nanowires/Cellulosic Paper-Based Thermoelectric Sheets with Superior Electrical Conductivity and Ultrahigh Thermal Dispersion Capability. ACS Applied Materials & Interfaces, 2019, 11, 39088-39099.	8.0	39
29	Chameleon Luminophore for Erasable Encrypted and Decrypted Devices: From Dual-Channel, Programmable, Smart Sensory Lanthanide Hydrogel to Logic Devices. ACS Applied Materials & Interfaces, 2020, 12, 19955-19964.	8.0	39
30	Intelligent multicolor nano-sensor based on nontoxic dual fluoroprobe and MOFs for colorful consecutive detection of Hg2+ and cysteine. Journal of Hazardous Materials, 2022, 430, 128478.	12.4	39
31	Waterborne fluorescent dual anti-counterfeiting ink based on Yb/Er-carbon quantum dots grafted with dialdehyde nano-fibrillated cellulose. Carbohydrate Polymers, 2020, 247, 116721.	10.2	37
32	Mechanically Flexible Carbon Aerogel with Wavy Layers and Springboard Elastic Supporting Structure for Selective Oil/Organic Solvent Recovery. ACS Applied Materials & Interfaces, 2021, 13, 15910-15924.	8.0	37
33	Catalytic transformation of cellulose into short rod-like cellulose nanofibers and platform chemicals over lignin-based solid acid. Applied Catalysis B: Environmental, 2020, 268, 118732.	20.2	36
34	Multifunctional nanocomposite based on halloysite nanotubes for efficient luminescent bioimaging and magnetic resonance imaging. International Journal of Nanomedicine, 2016, Volume 11, 4765-4776.	6.7	33
35	Acetylated cellulose nanocrystals with high-crystallinity obtained by one-step reaction from the traditional acetylation of cellulose. Carbohydrate Polymers, 2020, 229, 115553.	10.2	33
36	Visible light sensitized attapulgite-based lanthanide composites: microstructure, photophysical behaviour and biological application. Dalton Transactions, 2011, 40, 12909.	3.3	31

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37	Effect of retention rate of fluorescent cellulose nanofibrils on paper properties and structure. Carbohydrate Polymers, 2018, 186, 73-81.	10.2	31
38	Lignin-derived sulfonated porous carbon from cornstalk for efficient and selective removal of cationic dyes. Industrial Crops and Products, 2021, 159, 113071.	5.2	31
39	Bio-based polyurethane foam preparation employing lignin from corn stalk enzymatic hydrolysis residues. RSC Advances, 2018, 8, 15754-15761.	3.6	30
40	A water resistant solid-phase microextraction fiber with high selectivity prepared by a metal organic framework with perfluorinated pores. Journal of Chromatography A, 2016, 1441, 16-23.	3.7	27
41	Adsorption of Cu(<scp>ii</scp>) ions in aqueous solution by aminated lignin from enzymatic hydrolysis residues. RSC Advances, 2017, 7, 44751-44758.	3.6	27
42	Influence of binding mechanism on labeling efficiency and luminous properties of fluorescent cellulose nanocrystals. Carbohydrate Polymers, 2017, 175, 105-112.	10.2	27
43	Europium-based aminoclay containing carbon dots: A new visual fluorescence platform for visual point-of-care testing of tetracycline in various real samples. Journal of Luminescence, 2022, 241, 118497.	3.1	26
44	A ratiometric nanosensor based on lanthanide-functionalized attapulgite nanoparticle for rapid and sensitive detection of bacterial spore biomarker. Dyes and Pigments, 2018, 148, 44-51.	3.7	25
45	Silver nanoparticles immobilized on cellulose nanofibrils for starch-based nanocomposites with high antibacterial, biocompatible, and mechanical properties. Cellulose, 2021, 28, 855-869.	4.9	25
46	The fabrication of water-stable perovskite-europium hybrid polychromatic fluorescence nanosensor for fast visual sensing of tetracycline. Applied Surface Science, 2022, 592, 153170.	6.1	25
47	Characterization of the pretreatment liquor of biomass from the perennial grass, Eulaliopsis binata, for the production of dissolving pulp. Bioresource Technology, 2013, 129, 548-552.	9.6	24
48	The mechanism of Cu (II) adsorption onto 2,3-dialdehyde nano-fibrillated celluloses. Carbohydrate Polymers, 2020, 230, 115631.	10.2	24
49	A multifunctional nanosensor based on silica nanoparticles and biological applications in living cells. Chemical Communications, 2012, 48, 11017.	4.1	23
50	AuPd Bimetallic Nanocrystals Embedded in Magnetic Halloysite Nanotubes: Facile Synthesis and Catalytic Reduction of Nitroaromatic Compounds. Nanomaterials, 2017, 7, 333.	4.1	23
51	The effect of surface modification on chemical and crystalline structure of the cellulose III nanocrystals. Carbohydrate Polymers, 2020, 235, 115962.	10.2	23
52	Visible light-induced lanthanide polymer nanocomposites based on clays for bioimaging applications. Journal of Materials Science, 2016, 51, 1324-1332.	3.7	22
53	Janus applications: A mutifunctional nano-platform with integrated visual detection and photodegradation of tetracyclines. Applied Surface Science, 2019, 484, 1-10.	6.1	22
54	Effect of lignin content on the microstructural characteristics of lignocellulose nanofibrils. Cellulose, 2020, 27, 1327-1340.	4.9	22

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55	Phosphotungstic acid assisted with neutral deep eutectic solvent boost corn straw pretreatment for enzymatic saccharification and lignin extraction. Industrial Crops and Products, 2021, 172, 114058.	5.2	21
56	Colorimetric determination of mercury(II) based on the inhibition of the aggregation of gold nanorods coated with 6-mercaptopurine. Mikrochimica Acta, 2017, 184, 3961-3967.	5.0	20
57	Facile synthesis of fluorine-free cellulosic paper with excellent oil and grease resistance. Cellulose, 2020, 27, 7009-7022.	4.9	20
58	A lanthanide-based magnetic nanosensor as an erasable and visible platform for multi-color point-of-care detection of multiple targets and the potential application by smartphone. Journal of Materials Chemistry B, 2019, 7, 734-743.	5.8	18
59	Cellulose nanocrystal dye as reinforcement matrix of lipstick for inhibiting color migration. Cellulose, 2020, 27, 905-913.	4.9	18
60	Source apportionment of pulping wastewater and application of mechanical vapor recompression: Environmental and economic analyses. Journal of Environmental Management, 2021, 292, 112740.	7.8	18
61	The Enhanced Catalytic Activities of Asymmetric Au-Ni Nanoparticle Decorated Halloysite-Based Nanocomposite for the Degradation of Organic Dyes. Nanoscale Research Letters, 2016, 11, 72.	5.7	17
62	Bottomâ€Up Ecofriendly Strategy for Construction of Sustainable Bacterial Cellulose Bioaerogel with Multifunctional Properties. Advanced Materials Interfaces, 2021, 8, 2002101.	3.7	17
63	Silver-Nanoparticle-Embedded Hybrid Nanopaper with Significant Thermal Conductivity Enhancement. ACS Applied Materials & Interfaces, 2021, 13, 36171-36181.	8.0	17
64	Dual-Channel Probe of Carbon Dots Cooperating with Lanthanide Complex Employed for Simultaneously Distinguishing and Sequentially Detecting Tetracycline and Oxytetracycline. Nanomaterials, 2022, 12, 128.	4.1	16
65	Removal of tungsten from electroplating wastewater by acid- and heat-treated sepiolite. Desalination and Water Treatment, 2015, 56, 232-238.	1.0	15
66	Synthesis, characterization and antitumor activity of Ln(III) complexes with hydrazone Schiff base derived from 2-acetylpyridine and isonicotinohydrazone. Oncology Letters, 2017, 13, 4413-4419.	1.8	15
67	Cellulose II nanocrystal: a promising bio-template for porous or hollow nano SiO2 fabrication. Cellulose, 2020, 27, 3167-3179.	4.9	15
68	Synthesis, Characterization, Cytotoxic Activities, and DNA-Binding Studies of Ternary Copper(II) Complexes with New Coumarin Derivatives. Chemical and Pharmaceutical Bulletin, 2010, 58, 1003-1008.	1.3	14
69	Syntheses, crystal structures, antitumor and antioxidant activities of two hydrazideâ€“hydrazone-based transition metal complexes. Transition Metal Chemistry, 2015, 40, 485-491.	1.4	14
70	Synthesis, characterization and anticancer activities of transition metal complexes with a nicotinohydrazone ligand. Oncology Letters, 2017, 13, 3169-3176.	1.8	14
71	The use of lignin as cross-linker for polyurethane foam for potential application in adsorbing materials. BioResources, 2017, 12, 8653-8671.	1.0	14
72	Mineralization of Recalcitrant Organic Pollutants in Pulp and Paper Mill Wastewaters through Ozonation Catalyzed by Cu-Ce Supported on Al2O3. BioResources, 2018, 13, .	1.0	14

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73	Crystalline stability of cellulose III nanocrystals in the hydrothermal treatment and NaOH solution. Carbohydrate Polymers, 2020, 249, 116827.	10.2	13
74	Colorimetric response of lysine-caped gold/silver alloy nanocomposites for mercury(II) ion detection. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111846.	5.0	13
75	Study on visual multicolor intelligent detection of tetracycline antibiotics in various environmental samples by palygorskite-based fluorescent nano-probe. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128690.	4.7	13
76	Using fluorescently-labeled magnetic nanocomposites as a dual contrast agent for optical and magnetic resonance imaging. Biomaterials Science, 2017, 5, 1090-1100.	5.4	12
77	Cytotoxic, cell apoptosis and DNA binding properties of some ternary Cu(II) complexes with a reduced Schiff base ligand and heterocyclic bases. Inorganic Chemistry Communication, 2013, 35, 16-18.	3.9	10
78	Ternary Dinuclear Copper(II) Complexes of a Reduced Schiff Base Ligand with Diimine Coligands: DNA Binding, Cytotoxic Cell Apoptosis, and Apoptotic Mechanism. Chemical Biology and Drug Design, 2016, 87, 398-408.	3.2	10
79	Design and synthesis of novel N(4)-substituted thiosemicarbazones bearing a pyrrole unit as potential anticancer agents. Oncology Letters, 2017, 13, 4493-4500.	1.8	10
80	Synthesis and characterization of PdRu alloy-coated palygorskite-based nanocomposites as a magnetically recyclable multifunctional catalyst for reduction of nitroarenes and azo dyes. Materials Letters, 2017, 197, 24-27.	2.6	9
81	GdPO₄-Based Nanoprobe for Bioimaging and Selective Recognition of Dipicolinic Acid and Cysteine by a Sensing Ensemble Approach. ACS Biomaterials Science and Engineering, 2019, 5, 996-1004.	5.2	9
82	Killing two birds with one stone: Construction of a rare earth hybrid dual-channel fluorescent biosensor with intelligent broadcasting function and visualized synchronous assessment of multi-objectives. Sensors and Actuators B: Chemical, 2022, 369, 132341.	7.8	9
83	Generation and thermally adjustable catalysis of silver nanoparticle immobilized temperature-sensitive nanocomposite. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	8
84	Palygorskite Supported AuPd Alloy Nanoparticles as Efficient Nano-Catalysts for the Reduction of Nitroarenes and Dyes at Room Temperature. Nanomaterials, 2018, 8, 1000.	4.1	8
85	Development of a visible-light-sensitized THA-based lanthanide nanocomposite for cell imaging. Materials Letters, 2015, 161, 644-647.	2.6	7
86	Enhanced Removal of COD and Color in Paper-making Wastewater by Ozonation Catalyzed by Fe Supported on Activated Carbon. BioResources, 2016, 11, .	1.0	7
87	Facile Fabrication of Highly Active Magnetic Aminoclay Supported Palladium Nanoparticles for the Room Temperature Catalytic Reduction of Nitrophenol and Nitroanilines. Nanomaterials, 2018, 8, 409.	4.1	7
88	Endoglucanase recycling for disintegrating cellulosic fibers to fibrils. Carbohydrate Polymers, 2019, 223, 115052.	10.2	7
89	Cleaner approach for medium consistency eucalyptus slab pulp production using ozone bleaching under turbulent mixing. Journal of Cleaner Production, 2020, 276, 124201.	9.3	7
90	A dual-stimuli-responsive intelligent layered lanthanide hydroxide for application in information security and latent fingerprint identification. Journal of Rare Earths, 2022, 40, 1715-1727.	4.8	7

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91	Novel Nanofibrillated Cellulose/Chitin Whisker Hybrid Nanocomposites and their Use for Mechanical Performance Enhancements. BioResources, 2018, 13, .	1.0	6
92	Efficient fractionation of cellulose nanofibers using spiral microchannel. Cellulose, 2020, 27, 4029-4041.	4.9	6
93	Distribution analysis of cellulose nanofibrils in paper handsheets: Dye-labeled Method. Carbohydrate Polymers, 2020, 239, 116226.	10.2	6
94	An effective method for determining the retention and distribution of cellulose nanofibrils in paper handsheets by dye labeling. Tappi Journal, 2018, 17, 157-164.	0.5	6
95	Stimulus response of HNT-CDs-Eu nano-sensor: Toward visual point-of-care monitoring of a bacterial spore biomarker with hypersensitive multi-color agarose gel based analytical device. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 639, 128356.	4.7	6
96	Clean Bleaching Engineering Practice for Bagasse Pulp: Totally Chlorine-Free and Elemental Chlorine-Free Bleaching Realized with the Same Production Line. BioResources, 2015, 10, .	1.0	4
97	The Critical Analysis of Catalytic Steam Explosion Pretreatment of Corn Stalk, Lignin Degradation, Recovery, and Characteristic Variations. BioResources, 2016, 12, .	1.0	4
98	The Fluidization Properties of Bagasse Pulp Suspensions in a Rotary Device. BioResources, 2015, 11, .	1.0	4
99	Heterogeneous catalytic ozonation of paper-making wastewater with Î±-Fe2O3/Î³-Al2O3 as a catalyst for increased TOC and color removals. , 0, 95, 192-199.		4
100	The Study of Kraft Continuous Cooking of Knenaf. Advanced Materials Research, 0, 236-238, 1212-1215.	0.3	2
101	Optimization of Pretreatment and Alkaline Cooking of Wheat Straw on its Pulpability Using Response Surface Methodology. BioResources, 2017, 13, .	1.0	2
102	Gas-trap Capturing of Enzyme Inhibitors in Explosion Gas from the Pretreatment of Corn Stalk with Dilute-Sulfuric Acid Steam. BioResources, 2016, 12, .	1.0	1
103	ECF Bleaching of Pre-Hydrolyzed Larix Kraft Pulp for Production of Dissolving Pulp. Advanced Materials Research, 0, 634-638, 386-390.	0.3	0
104	The Effect of Sugarcane BagassÃ¨s Size on the Properties of Pretreatment and Enzymatic Hydrolysis. IOP Conference Series: Materials Science and Engineering, 2017, 205, 012006.	0.6	0
105	Effect of turbulence generator structures to the performance of medium-consistency pump at high rotation speed excesses 2000â€‰rpm. Nordic Pulp and Paper Research Journal, 2020, 35, 50-60.	0.7	0