Xu Xu

List of Publications by Year
in descending order

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81 papers	2,295 citations	172207 29 h-index	233125 45 g-index
81 all docs	81 docs citations	81 times ranked	2020 citing authors

#	Article	IF	Citations
1	Current progress in production of biopolymeric materials based on cellulose, cellulose nanofibers, and cellulose derivatives. RSC Advances, 2018, 8, 825-842.	1.7	284
2	A fully bio-based epoxy vitrimer: Self-healing, triple-shape memory and reprocessing triggered by dynamic covalent bond exchange. Materials and Design, 2020, 186, 108248.	3.3	234
3	Preparation of non-isocyanate polyurethanes from epoxy soybean oil: dual dynamic networks to realize self-healing and reprocessing under mild conditions. Green Chemistry, 2021, 23, 6349-6355.	4.6	78
4	Self-healing polyurethane with high strength and toughness based on a dynamic chemical strategy. Journal of Materials Chemistry A, 2022, 10, 10139-10149.	5.2	75
5	Properties of novel polyvinyl alcohol/cellulose nanocrystals/silver nanoparticles blend membranes. Carbohydrate Polymers, 2013, 98, 1573-1577.	5.1	67
6	Fully Bio-Based Polyhydroxyurethanes with a Dynamic Network from a Terpene Derivative and Cyclic Carbonate Functional Soybean Oil. ACS Sustainable Chemistry and Engineering, 2021, 9, 4175-4184.	3.2	66
7	Enhancement of Hydrophobic Properties of Cellulose Fibers via Grafting with Polymeric Epoxidized Soybean Oil. ACS Sustainable Chemistry and Engineering, 2017, 5, 1619-1627.	3.2	61
8	Preparation and Characterization of Cellulose Grafted with Epoxidized Soybean Oil Aerogels for Oil-Absorbing Materials. Journal of Agricultural and Food Chemistry, 2019, 67, 637-643.	2.4	59
9	Design, synthesis and anticancer activity of novel nopinone-based thiosemicarbazone derivatives. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2360-2363.	1.0	56
10	A Novel Camphor-Based â€œTurn-onâ€•Fluorescent Probe with High Specificity and Sensitivity for Sensing Mercury(II) in Aqueous Medium and Its Bioimaging Application. ACS Sustainable Chemistry and Engineering, 2020, 8, 12348-12359.	3.2	55
11	Boron nitrideâ€“nanosheet enhanced cellulose nanofiber aerogel with excellent thermal management properties. Carbohydrate Polymers, 2020, 241, 116425.	5.1	54
12	Novel eco-friendly maleopimaric acid based polysiloxane flame retardant and application in rigid polyurethane foam. Composites Science and Technology, 2020, 198, 108272.	3.8	47
13	Biobased Phosphorus Siloxane-Containing Polyurethane Foam with Flame-Retardant and Smoke-Suppressant Performances. ACS Sustainable Chemistry and Engineering, 2021, 9, 8623-8634.	3.2	46
14	Synthesis of a pH-responsive nano-cellulose/sodium alginate/MOFs hydrogel and its application in the regulation of water and N-fertilizer. International Journal of Biological Macromolecules, 2021, 187, 262-271.	3.6	46
15	Synthesis and characteristics of tung oil-based acrylated-alkyd resin modified by isobornyl acrylate. RSC Advances, 2017, 7, 30439-30445.	1.7	44
16	A TEMPO-oxidized cellulose nanofibers/MOFs hydrogel with temperature and pH responsiveness for fertilizers slow-release. International Journal of Biological Macromolecules, 2021, 191, 483-491.	3.6	44
17	Preparation and Characterization of Room-Temperature-Vulcanized Silicone Rubber Using Acrylpimaric Acid-Modified Aminopropyltriethoxysilane as a Cross-Linking Agent. ACS Sustainable Chemistry and Engineering, 2019, 7, 4964-4974.	3.2	43
18	A novel nopinone-based colorimetric and ratiometric fluorescent probe for detection of bisulfite and its application in food and living cells. Dyes and Pigments, 2019, 171, 107702.	2.0	42

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19	Construction of antimicrobial and biocompatible cotton textile based on quaternary ammonium salt from rosin acid. International Journal of Biological Macromolecules, 2020, 150, 1-8.	3.6	38
20	Porous aerogels prepared by crosslinking of cellulose with 1,4-butanediol diglycidyl ether in NaOH/urea solution. RSC Advances, 2016, 6, 42854-42862.	1.7	37
21	The effect of atmospheric pressure plasma pretreatment with various gases on the structural characteristics and chemical composition of wheat straw and applications to enzymatic hydrolysis. Energy, 2019, 176, 195-210.	4.5	35
22	A novel isolongifolanone based fluorescent probe with super selectivity and sensitivity for hypochlorite and its application in bio-imaging. Analytica Chimica Acta, 2019, 1051, 169-178.	2.6	32
23	Mechanical reinforcement of room-temperature-vulcanized silicone rubber using modified cellulose nanocrystals as cross-linker and nanofiller. Carbohydrate Polymers, 2020, 229, 115509.	5.1	32
24	Development of a ratiometric fluorescent probe with large Stokes shift and emission wavelength shift for real-time tracking of hydrazine and its multiple applications in environmental analysis and biological imaging. Journal of Hazardous Materials, 2022, 422, 126891.	6.5	32
25	An easily available camphor-derived ratiometric fluorescent probe with AIE feature for sequential Ga3+ and ATP sensing in a near-perfect aqueous media and its bio-imaging in living cells and mice. Sensors and Actuators B: Chemical, 2020, 320, 128249.	4.0	32
26	Synthesis and properties of novel rosinâ€based waterâ€borne polyurethane. Polymer International, 2011, 60, 1521-1526.	1.6	31
27	Thermo-/pH-responsive preservative delivery based on TEMPO cellulose nanofiber/cationic copolymer hydrogel film in fruit packaging. International Journal of Biological Macromolecules, 2021, 183, 1911-1924.	3.6	31
28	Flame-retarded polyurethane foam conferred by a bio-based nitrogenâ€'phosphorus-containing flame retardant. Reactive and Functional Polymers, 2021, 168, 105057.	2.0	31
29	Recyclable non-isocyanate polyurethanes containing a dynamic covalent network derived from epoxy soybean oil and CO₂. Materials Chemistry Frontiers, 2021, 5, 6160-6170.	3.2	30
30	Cellulose-based polymeric emulsifier stabilized poly(N-vinylcaprolactam) hydrogel with temperature and pH responsiveness. International Journal of Biological Macromolecules, 2020, 143, 190-199.	3.6	29
31	Novel Bis-Camphor-Derived Colorimetric and Fluorescent Probe for Rapid and Visual Detection of Cysteine and Its Versatile Applications in Food Analysis and Biological Imaging. Journal of Agricultural and Food Chemistry, 2022, 70, 669-679.	2.4	29
32	Nopinone-based AIE-active dual-functional fluorescent chemosensor for Hg²⁺ and Cu²⁺ and its environmental and biological applications. Dalton Transactions, 2020, 49, 15299-15309.	1.6	27
33	Factors influencing the morphology and adsorption performance of cellulose nanocrystal/iron oxide nanorod composites for the removal of arsenic during water treatment. International Journal of Biological Macromolecules, 2020, 156, 1418-1424.	3.6	21
34	BODIPY derivatives bearing borneol moieties: Enhancing cell membrane permeability for living cell imaging. Dyes and Pigments, 2019, 164, 105-111.	2.0	20
35	A novel hexahydroquinazolin-2-amine-based fluorescence sensor for Cu²⁺ from isolongifolanone and its biological applications. RSC Advances, 2017, 7, 33263-33272.	1.7	19
36	A pH-responsive/sustained release nitrogen fertilizer hydrogel based on aminated cellulose nanofiber/cationic copolymer for application in irrigated neutral soils. Journal of Cleaner Production, 2022, 368, 133098.	4.6	19

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37	Highly efficient coumarin-derived colorimetric chemosensors for sensitive sensing of fluoride ions and their applications in logic circuits. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 255, 119718.	2.0	18
38	Two-component waterborne polyurethane modified with terpene derivative-based polysiloxane for coatings via a thiol-ene click reaction. Industrial Crops and Products, 2021, 171, 113903.	2.5	18
39	Synthesis, optical properties, and cellular imaging of novel quinazolin-2-amine nopinone derivatives. Dyes and Pigments, 2016, 128, 75-83.	2.0	17
40	Novel Nopinone-Based Turn-on Fluorescent Probe for Hydrazine in Living Cells with High Selectivity. Industrial & Engineering Chemistry Research, 2019, 58, 22754-22762.	1.8	17
41	A nopinone based multi-functional probe for colorimetric detection of Cu2+ and ratiometric detection of Ag+. Photochemical and Photobiological Sciences, 2020, 19, 49-55.	1.6	17
42	Terpene derivative-containing silicone two-component waterborne polyurethane for coatings. Progress in Organic Coatings, 2021, 153, 106137.	1.9	17
43	A simple camphor based AIE fluorescent probe for highly specific and sensitive detection of hydrazine and its application in living cells. Analytical Methods, 2019, 11, 3958-3965.	1.3	16
44	Truxene-BODIPY dyads and triads: Synthesis, spectroscopic characterization, one and two-photon absorption properties and electrochemistry. Dyes and Pigments, 2020, 179, 108380.	2.0	16
45	Modified cellulose nanocrystals are used to enhance the performance of self-healing siloxane elastomers. Carbohydrate Polymers, 2021, 273, 118529.	5.1	16
46	Quantitatively analysis and detection of CNâ˜ in three food samples by a novel nopinone-based fluorescent probe. Food Chemistry, 2022, 379, 132153.	4.2	15
47	A pinene-based silane crosslinker for improved mechanical strength/transparency of room-temperature vulcanizing silicone rubber. Materials Chemistry and Physics, 2020, 247, 122868.	2.0	14
48	Using Î±-Pinene-Modified Triethoxysilane as the New Cross-Linking Agent To Improve the Silicone Rubber Properties. ACS Omega, 2019, 4, 11921-11927.	1.6	12
49	Performance improvement of rosin-based room temperature vulcanized silicone rubber using nanofiller fumed silica. Polymer Degradation and Stability, 2021, 183, 109422.	2.7	12
50	A novel tetrahydroquinazolin-2-amine-based high selective fluorescent sensor for Zn2+ from nopinone. Tetrahedron, 2016, 72, 4503-4509.	1.0	11
51	Preparation and properties of room temperature vulcanized silicone rubber using triethoxy(2-(4-methylcyclohex-3-en-1-yl)propyl)silane as a novel cross-linking agent. Polymer Degradation and Stability, 2020, 173, 109068.	2.7	11
52	A novel AIE-active camphor-based fluorescent probe for simultaneous detection of Al³⁺ and Zn²⁺ at dual channels in living cells and zebrafish. Analyst, The, 2021, 147, 87-100.	1.7	11
53	Innovative two-phase air plasma activation approach for green and efficient functionalization of nanofibrillated cellulose surfaces from wheat straw. Journal of Cleaner Production, 2021, 297, 126664.	4.6	10
54	Preparation and characterization of UV-curable waterborne polyurethane using isobornyl acrylate modified via copolymerization. Polymer Degradation and Stability, 2021, 184, 109474.	2.7	9

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55	Synthesis, optical properties, and acidâ€“base indicating performance of novel ketene hydroxybenzylidene nopinone derivatives. RSC Advances, 2016, 6, 111760-111766.	1.7	8
56	Discovery of a novel camphor-based fluorescent probe for Co2+ in fresh vegetables with high selectivity and sensitivity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 248, 119213.	2.0	8
57	Fluorescence staining of salicylaldehyde azine, and applications in the determination of potassium tert-butoxide. RSC Advances, 2016, 6, 30636-30641.	1.7	7
58	Synthesis and Antibacterial, Antitumor Activity of 2,6,6-Thrimethyl-bicyclo[3,1,1]heptan-3-(4-aryl-2-thiazoyl)hydrazones. Chinese Journal of Organic Chemistry, 2014, 34, 2146.	0.6	7
59	Synthesis and Biological Activity of Novel Pinanyl Thiazole Derivatives. Chinese Journal of Organic Chemistry, 2016, 36, 2489.	0.6	7
60	Aggregation-Induced Emission-Active Fluorescent Probe for Zn²⁺ Based on Isolongifolanone and Its Application in Plant-Cell Imaging. Chinese Journal of Organic Chemistry, 2018, 38, 1401.	0.6	7
61	Synthesis, optical properties and application of a set of novel pyrazole nopinone derivatives. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 183, 60-67.	2.0	6
62	A novel ratiometric fluorescent chemosensor for detecting malononitrile and application assisted with smartphone. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 262, 120135.	2.0	6
63	Synthesis and Biological Activity of Novel Pinanyl Pyrazole Acetamide Derivatives. Chinese Journal of Organic Chemistry, 2017, 37, 218.	0.6	6
64	Synthesis and determination of Zn2+, S2â^' and live cellular imaging of a benzhydrazide derivative. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 396, 112544.	2.0	5
65	16-Isopropyl-5,9-dimethyltetracyclo[10.2.2.01,10.04,9]hexadec-15-ene-5,14-dicarboxylic acid ethanol hemisolvate. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o1521-o1521.	0.2	5
66	Synthesis and Antibacterial Activity of New Pinanyl Nitrogen-Containing Heterocycles. Chinese Journal of Organic Chemistry, 2013, 33, 2196.	0.6	5
67	Synthesis and Biological Activities of Novel 4-Aryl-5,6,7,8-tetrahydroquinazolin-2-amine Derivatives. Chinese Journal of Organic Chemistry, 2014, 34, 2130.	0.6	5
68	Rosinâ€Based Si/Pâ€Containing Flame Retardant Toward Enhanced Fire Safety Polyurethane Foam. Advanced Engineering Materials, 2022, 24, 2101044.	1.6	5
69	2-Hydroxy-6,6-dimethylbicyclo[3.1.1]heptane-2-carboxylic acid. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2748-o2748.	0.2	4
70	Oxidative Esterification of Aldehydes and Alcohols Catalyzed by Camphor-Based Imidazolium Salts. Catalysis Letters, 2020, 150, 1812-1820.	1.4	4
71	Rational design of a facile camphor-based fluorescence turn-on probe for real-time tracking of hypochlorous acid in vivo and in vitro. Analyst, The, 2022, 147, 2080-2088.	1.7	4
72	Investigation on the Utilization Possibility of Orange (Citrus sinensis var. Valencia) Oil Extracted by Microwave Pretreatment-Improved Steam Distillation as Natural Flavoring Agent Based on its Characteristics Analysis. Journal of Essential Oil-bearing Plants: JEOP, 2018, 21, 298-316.	0.7	3

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73	Synthesis, optical properties, determination and imaging in living cells and bamboo of cinnamaldehyde derivatives. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 255, 119730.	2.0	3
74	15-Hydroxyethyl-19-isopropyl-5,9-dimethyl-14,16-dioxo-15-azapentacyclo[10.5.2.01,10.04,9.013,17]nonadec-18-ene-5-carboxylic acid. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2443-o2443.	0.2	2
75	Preparation and Properties of Bio-Based Waterborne Polyurethane Modified by Zinc Oxide. Advanced Materials Research, 2011, 183-185, 1827-1831.	0.3	2
76	Syntheses, structures, and properties of coordination polymers based on acrylpimaric acid. Inorganica Chimica Acta, 2013, 405, 477-484.	1.2	2
77	Synthesis, structure, and luminescence of a coordination polymer from fumaropimaric acid and a water cluster. Journal of Coordination Chemistry, 2015, 68, 1238-1250.	0.8	1
78	16-Isopropyl-5,9-dimethyltetracyclo[10.2.2.01,10.04,9]hexadec-15-ene-5,13,14-tricarboxylic acid dimethylformamide disolvate. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1318-o1318.	0.2	0
79	4-Isopropyl-N-phenylcyclohexa-1,3-diene-1-carboxamide. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o2490-o2490.	0.2	0
80	Synthesis and Ultraviolet Absorption Characteristics of 4-Arylidene-2-hydroxy-3-pinanones. Chinese Journal of Organic Chemistry, 2012, 32, 2287.	0.6	0
81	Synthesis and Ultraviolet Absorption Characteristics of Chiral 3- arylidenenopinones from β-pinene. Letters in Drug Design and Discovery, 2014, 11, 380-386.	0.4	0