

Zhijian Tan

List of Publications by Year in descending order

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50
papers

1,587
citations

236612

25
h-index

301761

39
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51
all docs

51
docs citations

51
times ranked

1621
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Eutectic Supramolecular Polymers: Bulk Supramolecular Materials. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11871-11875.	7.2	112
2	Extraction and purification of chlorogenic acid from ramie (<i>Boehmeria nivea</i> L. Gaud) leaf using an ethanol/salt aqueous two-phase system. <i>Separation and Purification Technology</i> , 2014, 132, 396-400.	3.9	76
3	Temperature-responsive deep eutectic solvents as green and recyclable media for the efficient extraction of polysaccharides from <i>Ganoderma lucidum</i> . <i>Journal of Cleaner Production</i> , 2020, 274, 123047.	4.6	72
4	Isolation and purification of aloe anthraquinones based on an ionic liquid/salt aqueous two-phase system. <i>Separation and Purification Technology</i> , 2012, 98, 150-157.	3.9	70
5	Applications of choline amino acid ionic liquid in extraction and separation of flavonoids and pectin from ponkan peels. <i>Separation Science and Technology</i> , 2016, 51, 1093-1102.	1.3	58
6	Deep eutectic solvents used as the green media for the efficient extraction of caffeine from Chinese dark tea. <i>Separation and Purification Technology</i> , 2019, 227, 115723.	3.9	56
7	Physical and Degradable Properties of Mulching Films Prepared from Natural Fibers and Biodegradable Polymers. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 147.	1.3	55
8	Choline chloride-based deep eutectic solvent systems as a pretreatment for nanofibrillation of ramie fibers. <i>Cellulose</i> , 2019, 26, 3069-3082.	2.4	55
9	Salting-out extraction of allicin from garlic (<i>Allium sativum</i> L.) based on ethanol/ammonium sulfate in laboratory and pilot scale. <i>Food Chemistry</i> , 2017, 217, 91-97.	4.2	53
10	Extraction and preliminary purification of polysaccharides from <i>Camellia oleifera</i> Abel. seed cake using a thermoseparating aqueous two-phase system based on EOPO copolymer and deep eutectic solvents. <i>Food Chemistry</i> , 2020, 313, 126164.	4.2	51
11	Green extraction of cannabidiol from industrial hemp (<i>Cannabis sativa</i> L.) using deep eutectic solvents coupled with further enrichment and recovery by macroporous resin. <i>Journal of Molecular Liquids</i> , 2019, 287, 110957.	2.3	50
12	Extraction, Preconcentration and Isolation of Flavonoids from <i>Apocynum venetum</i> L. Leaves Using Ionic Liquid-Based Ultrasonic-Assisted Extraction Coupled with an Aqueous Biphasic System. <i>Molecules</i> , 2016, 21, 262.	1.7	47
13	An effective method for the extraction and purification of chlorogenic acid from ramie (<i>Boehmeria</i>) Tj ETQq1 1 0.784314 rgBT /Overlo 2.5 44	2.5	44
14	Extraction of Oil from Flaxseed (<i>Linum usitatissimum</i> L.) Using Enzyme-Assisted Three-Phase Partitioning. <i>Applied Biochemistry and Biotechnology</i> , 2016, 179, 1325-1335.	1.4	42
15	Assessment of the cytotoxicity of ionic liquids on <i>Spodoptera frugiperda</i> 9 (Sf-9) cell lines via in vitro assays. <i>Journal of Hazardous Materials</i> , 2018, 348, 1-9.	6.5	42
16	Direct pretreatment of raw ramie fibers using an acidic deep eutectic solvent to produce cellulose nanofibrils in high purity. <i>Cellulose</i> , 2021, 28, 175-188.	2.4	42
17	Chiral separation of mandelic acid enantiomers using an aqueous two-phase system based on a thermo-sensitive polymer and dextran. <i>Separation and Purification Technology</i> , 2017, 172, 382-387.	3.9	40
18	Deep eutectic solvents used as adjuvants for improving the salting-out extraction of ursolic acid from <i>Cynomorium songaricum</i> Rupr. in aqueous two-phase system. <i>Separation and Purification Technology</i> , 2019, 209, 112-118.	3.9	40

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19	Biphasic recognition chiral extraction of threonine enantiomers in a two-phase system formed by hydrophobic and hydrophilic deep-eutectic solvents. <i>Separation and Purification Technology</i> , 2019, 215, 102-107.	3.9	40
20	Comparison of Deep Eutectic Solvents on Pretreatment of Raw Ramie Fibers for Cellulose Nanofibril Production. <i>ACS Omega</i> , 2020, 5, 5580-5588.	1.6	38
21	Assessment of the toxicity and biodegradation of amino acid-based ionic liquids. <i>RSC Advances</i> , 2019, 9, 10100-10108.	1.7	37
22	Separation and Purification of Aloe Anthraquinones Using PEG/Salt Aqueous Two-Phase System. <i>Separation Science and Technology</i> , 2011, 46, 1503-1510.	1.3	36
23	Ultrasonic-assisted extraction of sinomenine from <i>Sinomenium acutum</i> using magnetic ionic liquids coupled with further purification by reversed micellar extraction. <i>Process Biochemistry</i> , 2017, 58, 282-288.	1.8	35
24	Ionic Liquid-Based Ultrasonic-Assisted Extraction of Secoisolariciresinol Diglucoside from Flaxseed (<i>Linum usitatissimum</i> L.) with Further Purification by an Aqueous Two-Phase System. <i>Molecules</i> , 2015, 20, 17929-17943.	1.7	32
25	Phase behavior of aqueous biphasic systems composed of novel choline amino acid ionic liquids and salts. <i>Journal of Molecular Liquids</i> , 2016, 222, 836-844.	2.3	29
26	On-Site Supramolecular Adhesion to Wet and Soft Surfaces via Solvent Exchange. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53083-53090.	4.0	27
27	A novel combined process for extracting, separating and recovering flavonoids from flos sophorae immaturus. <i>Separation and Purification Technology</i> , 2017, 172, 422-432.	3.9	25
28	Comparative transcriptomics provide insight into the morphogenesis and evolution of fistular leaves in <i>Allium</i> . <i>BMC Genomics</i> , 2017, 18, 60.	1.2	24
29	Enantioselective Extraction of Phenylalanine Enantiomers Using Environmentally Friendly Aqueous Two-Phase Systems. <i>Processes</i> , 2018, 6, 212.	1.3	24
30	Supramolecular Adhesive Materials from Natural Acids and Sugars with Tough and Organic Solvent-Resistant Adhesion. <i>CCS Chemistry</i> , 2021, 3, 1690-1700.	4.6	24
31	Three-phase partitioning based on CO ₂ -responsive deep eutectic solvents for the green and sustainable extraction of lipid from <i>Nannochloropsis</i> sp. <i>Separation and Purification Technology</i> , 2021, 279, 119685.	3.9	22
32	Deep-eutectic solvents simultaneously used as the phase-forming components and chiral selectors for enantioselective liquid-liquid extraction of tryptophan enantiomers. <i>Journal of Molecular Liquids</i> , 2020, 319, 114106.	2.3	21
33	Enantioselective liquid-liquid extraction of valine enantiomers in the aqueous two-phase system formed by the cholinium amino acid ionic liquid copper complexes and salt. <i>Journal of Molecular Liquids</i> , 2019, 294, 111599.	2.3	20
34	PEGylated Thermo-Sensitive Bionic Magnetic Core-Shell Structure Molecularly Imprinted Polymers Based on Halloysite Nanotubes for Specific Adsorption and Separation of Bovine Serum Albumin. <i>Polymers</i> , 2020, 12, 536.	2.0	20
35	Ultrasonic Assisted Extraction of Paclitaxel from <i>Taxus x media</i> Using Ionic Liquids as Adjuvants: Optimization of the Process by Response Surface Methodology. <i>Molecules</i> , 2017, 22, 1483.	1.7	19
36	Two birds with one stone: Porous poly(ionic liquids) membrane with high efficiency for the separation of amino acids mixture and its antibacterial properties. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 866-874.	5.0	16

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37	Salting-out extraction of sinomenine from <i>Sinomenium acutum</i> by an alcohol/salt aqueous two-phase system using ionic liquids as additives. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1925-1930.	1.6	14
38	Light-colored cellulose nanofibrils produced from raw sisal fibers without costly bleaching. <i>Industrial Crops and Products</i> , 2021, 172, 114009.	2.5	13
39	Ionic liquids simultaneously used as accelerants, stabilizers and extractants for improving the cannabidiol extraction from industrial hemp. <i>Industrial Crops and Products</i> , 2020, 155, 112796.	2.5	9
40	Deep Eutectic Supramolecular Polymers: Bulk Supramolecular Materials. <i>Angewandte Chemie</i> , 2020, 132, 11969-11973.	1.6	8
41	Selective separation of the homologues of baicalin and baicalein from <i>Scutellaria baicalensis</i> Georgi using a recyclable ionic liquid-based liquid-liquid extraction system. <i>Process Biochemistry</i> , 2021, 103, 1-8.	1.8	7
42	Enantioselective liquid-liquid extraction of tryptophan enantiomers by a recyclable aqueous biphasic system based on stimuli-responsive polymers. <i>Journal of Chromatography A</i> , 2021, 1656, 462532.	1.8	7
43	A Biodegradable Ramie Fiber-Based Nonwoven Film Used for Increasing Oxygen Supply to Cultivated Soil. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1813.	1.3	6
44	A LCST-type ionic liquid used as the recyclable extractant for the extraction and separation of liquiritin and glycyrrhizic acid from licorice (<i>Glycyrrhiza uralensis</i> Fisch). <i>Journal of Molecular Liquids</i> , 2021, 340, 117295.	2.3	6
45	β -Cyclodextrin-based poly(ionic liquids) membranes enable the efficient separation of the amino acids mixture. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 103, 322-328.	2.9	6
46	Simultaneous Extraction, Enrichment and Removal of Dyes from Aqueous Solutions Using a Magnetic Aqueous Micellar Two-Phase System. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1257.	1.3	5
47	Effects of applying ramie fiber nonwoven films on root-zone soil nutrient and bacterial community of rice seedlings for mechanical transplanting. <i>Scientific Reports</i> , 2020, 10, 3440.	1.6	4
48	Recyclable aqueous two-phase system formed by two temperature-responsive polymers for the chiral resolution of mandelic acid enantiomers. <i>Journal of Molecular Liquids</i> , 2022, 352, 118738.	2.3	4
49	Polarity-controlled deep eutectic solvents-based biphasic system for the selective separation of geniposidic acid and aucubin from <i>Eucommia ulmoides</i> male flowers. <i>Journal of Molecular Liquids</i> , 2022, 358, 119200.	2.3	3
50	Preparation and Corresponding Properties of a Novel Aqueous Derivative of Lutein. <i>Chemistry Letters</i> , 2016, 45, 586-588.	0.7	1