

# Yi-Xin Guan

## List of Publications by Year in descending order

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60  
papers

1,226  
citations

331670

21  
h-index

414414

32  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1359  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of ibuprofen-loaded chitosan films for oral mucosal drug delivery using supercritical solution impregnation. <i>International Journal of Pharmaceutics</i> , 2014, 473, 434-441.	5.2	79
2	Enantiomeric separation of (R, S)-naproxen by recycling high speed counter-current chromatography with hydroxypropyl- $\beta$ -cyclodextrin as chiral selector. <i>Journal of Chromatography A</i> , 2011, 1218, 5434-5440.	3.7	77
3	Microparticle formation of sodium cellulose sulfate using supercritical fluid assisted atomization introduced by hydrodynamic cavitation mixer. <i>Chemical Engineering Journal</i> , 2010, 159, 220-229.	12.7	65
4	Supercritical fluid assisted atomization introduced by hydrodynamic cavitation mixer (SAA-HCM) for micronization of levofloxacin hydrochloride. <i>Journal of Supercritical Fluids</i> , 2008, 43, 524-534.	3.2	47
5	11 $\beta$ -Hydroxylation of 16 $\beta$ ,17-epoxyprogesterone by <i>Rhizopus nigricans</i> in a biphasic ionic liquid aqueous system. <i>Bioresource Technology</i> , 2011, 102, 9368-9373.	9.6	47
6	Enantioseparation of phenylsuccinic acid by high speed counter-current chromatography using hydroxypropyl- $\beta$ -cyclodextrin as chiral selector. <i>Journal of Chromatography A</i> , 2011, 1218, 5602-5608.	3.7	45
7	Controllable preparation and formation mechanism of BSA microparticles using supercritical assisted atomization with an enhanced mixer. <i>Journal of Supercritical Fluids</i> , 2011, 56, 97-104.	3.2	40
8	Separation of $\beta$ -cyclohexylmandelic acid enantiomers using biphasic chiral recognition high-speed counter-current chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 3044-3052.	3.7	37
9	Supercritical Fluid Extraction and Micronization of Ginkgo Flavonoids from Ginkgo Biloba Leaves. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 5461-5466.	3.7	35
10	Supercritical fluid assisted atomization introduced by an enhanced mixer for micronization of lysozyme: Particle morphology, size and protein stability. <i>International Journal of Pharmaceutics</i> , 2011, 421, 258-268.	5.2	34
11	Preparation of pH-responsive DOX-loaded chitosan nanoparticles using supercritical assisted atomization with an enhanced mixer. <i>International Journal of Pharmaceutics</i> , 2019, 558, 82-90.	5.2	33
12	Preparative separation of isomeric caffeoylquinic acids from <i>Flos Lonicerae</i> by pH-zone-refining counter-current chromatography. <i>Journal of Chromatography A</i> , 2008, 1212, 48-53.	3.7	31
13	Coexpression of chaperonin GroEL/GroES markedly enhanced soluble and functional expression of recombinant human interferon-gamma in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 1065-1074.	3.6	31
14	Formulation of insulin-loaded N -trimethyl chitosan microparticles with improved efficacy for inhalation by supercritical fluid assisted atomization. <i>International Journal of Pharmaceutics</i> , 2016, 505, 223-233.	5.2	31
15	On-Column Refolding of Recombinant Human Interferon- $\beta$ with an Immobilized Chaperone Fragment. <i>Biotechnology Progress</i> , 2003, 19, 915-920.	2.6	30
16	Preparation of chitosan microparticles with diverse molecular weights using supercritical fluid assisted atomization introduced by hydrodynamic cavitation mixer. <i>Powder Technology</i> , 2014, 254, 416-424.	4.2	28
17	Poly(hydroxyethyl methacrylate)-based composite cryogel with embedded macroporous cellulose beads for the separation of human serum immunoglobulin and albumin. <i>Journal of Separation Science</i> , 2013, 36, 3813-3820.	2.5	27
18	Preparation of Roxithromycin-Loaded Poly(L-lactic Acid) Films with Supercritical Solution Impregnation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 13813-13818.	3.7	26

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19	Microbial Side-Chain Cleavage of Phytosterols by Mycobacteria in Vegetable Oil/Aqueous Two-Phase System. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 522-533.	2.9	24
20	Inactivation of Microorganisms in Carbon Dioxide at Elevated Pressure and Ambient Temperature. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 6345-6352.	3.7	23
21	Solubility of Dexamethasone in Supercritical Carbon Dioxide with and without a Cosolvent. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 3359-3364.	1.9	21
22	Fabrication of bimodal porous PLGA scaffolds by supercritical CO <sub>2</sub> foaming/particle leaching technique. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	21
23	Preparative enantioseparation of $\beta$ -blocker drugs by counter-current chromatography using dialkyl l-tartrate as chiral selector based on borate coordination complex. <i>Journal of Chromatography A</i> , 2012, 1263, 74-83.	3.7	20
24	A novel two-species whole-cell immobilization system composed of marine-derived fungi and its application in wastewater treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1733-1740.	3.2	20
25	Refolding and purification of recombinant human interferon- $\beta$ expressed as inclusion bodies in <i>Escherichia coli</i> using size exclusion chromatography. <i>Biotechnology and Bioengineering</i> , 2005, 10, 122-127.	2.6	19
26	Bioactive insulin microparticles produced by supercritical fluid assisted atomization with an enhanced mixer. <i>International Journal of Pharmaceutics</i> , 2013, 454, 174-182.	5.2	19
27	Chromatographic refolding of recombinant human interferon gamma by an immobilized sht GroEL191-345 column. <i>Journal of Chromatography A</i> , 2006, 1107, 192-197.	3.7	18
28	On-column refolding of recombinant human interferon- $\beta$ inclusion bodies by expanded bed adsorption chromatography. <i>Biotechnology and Bioengineering</i> , 2006, 93, 755-760.	3.3	18
29	Preparation of micrometric powders of parathyroid hormone (PTH1-34)-loaded chitosan oligosaccharide by supercritical fluid assisted atomization. <i>International Journal of Pharmaceutics</i> , 2018, 545, 389-394.	5.2	18
30	Supercritical fluid assisted production of micrometric powders of the labile trypsin and chitosan/trypsin composite microparticles. <i>International Journal of Pharmaceutics</i> , 2015, 489, 226-236.	5.2	17
31	Evaluation of Biocompatible Ionic Liquids for Their Application in Phytosterols Bioconversion by <i>Mycobacterium</i> sp. Resting Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10702-10709.	6.7	16
32	Chromatographic separation of phenyllactic acid from crude broth using cryogels with dual functional groups. <i>Journal of Chromatography A</i> , 2018, 1554, 92-100.	3.7	15
33	Sodium cellulose sulfate: A promising biomaterial used for microcarriers™ designing. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 46-58.	4.4	15
34	Refolding of lysozyme at high concentration in batch and fedbatch operation. <i>Korean Journal of Chemical Engineering</i> , 2002, 19, 871-875.	2.7	14
35	Refolding of lysozyme <i>in vitro</i> assisted by colloidal thermosensitive poly( <i>N</i> -isopropylacrylamide) brushes grafted onto the surface of uniform polystyrene cores. <i>Journal of Applied Polymer Science</i> , 2009, 114, 1270-1277.	2.6	14
36	Side-chain cleavage of phytosterols by <i>Mycobacterium</i> sp. MB 3683 in a biphasic ionic liquid/aqueous system. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2631-2637.	3.2	14

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37	A Combined Refolding Technique for Recombinant Human Interferon- $\beta$ Inclusion Bodies by Ion-exchange Chromatography with a Urea Gradient. <i>World Journal of Microbiology and Biotechnology</i> , 2005, 21, 797-802.	3.6	13
38	Supercritical fluid assisted production of chitosan oligomers micrometric powders. <i>Carbohydrate Polymers</i> , 2014, 102, 400-408.	10.2	13
39	Chromatographic adsorption of serum albumin and antibody proteins in cryogels with benzyl-quaternary amine ligands. <i>Journal of Chromatography A</i> , 2015, 1381, 173-183.	3.7	13
40	A Complex Process of Asymmetric Synthesis of $\beta$ -Hydroxy Ester by Baker's Yeast Accompanied by Resin Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 5411-5416.	3.7	10
41	Co-expression of disulfide oxidoreductases DsbA/DsbC markedly enhanced soluble and functional expression of reteplase in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2014, 192, 197-203.	3.8	10
42	Effect of Cholinium Amino Acids Ionic Liquids As Cosolvents on the Bioconversion of Phytosterols by <i>Mycobacterium</i> sp. Resting Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17124-17132.	6.7	10
43	Thermosensitive poly(N-isopropylacrylamide) hydrogel for refolding of recombinant bovine prethrombin-2 from <i>E. coli</i> inclusion bodies. <i>Journal of Applied Polymer Science</i> , 2005, 96, 1734-1740.	2.6	9
44	Development of metformin hydrochloride loaded dissolving tablets with novel carboxymethylcellulose/poly-L-lysine/TPP complex. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 411-420.	7.5	9
45	On-column refolding of denatured lysozyme by the conjoint chromatography composed of SEC and immobilized recombinant DsbA. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 2971-2977.	2.3	8
46	Sustained release of dexamethasone from drug-loading PLGA scaffolds with specific pore structure fabricated by supercritical CO <sub>2</sub> foaming. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46207.	2.6	8
47	Supercritical CO <sub>2</sub> assisted preparation of chitosan-based nano-in-microparticles with potential for efficient pulmonary drug delivery. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 46, 101486.	6.8	8
48	Lysozyme refolding at high concentration by dilution and size-exclusion chromatography. <i>Journal of Zhejiang University: Science A</i> , 2003, 4, 136-141.	2.4	7
49	Dehydrogenation of 11 $\beta$ -hydroxy-16 $\beta$ , 17 $\alpha$ -epoxyprogesterone by encapsulated <i>Arthrobacter simplex</i> cells in an aqueous/organic solvent two-phase system. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 208-214.	3.2	7
50	Effect of the SA content of a novel thermo-sensitive P(NIPAM-co-SA) copolymer on denatured lysozyme refolding in vitro. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2597-2605.	2.6	7
51	Production of Minichaperone (shT GroEL191-345) and Its Function in the Refolding of Recombinant Human Interferon Gamma. <i>Protein and Peptide Letters</i> , 2005, 12, 85-88.	0.9	6
52	A combined process of biocatalysis and cell activity regeneration for the asymmetric reduction of $\beta$ -keto ester with immobilized baker's yeast. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 186-191.	3.2	5
53	Refolding of recombinant human interferon gamma inclusion bodies in vitro assisted by colloidal thermo-sensitive poly(N-isopropylacrylamide) brushes grafted onto the surface of uniform polystyrene cores. <i>Biochemical Engineering Journal</i> , 2013, 74, 20-26.	3.6	4
54	Adsorption Performance of Proteins to CM Sepharose FF and DEAE Sepharose FF Adsorbents. <i>Korean Journal of Chemical Engineering</i> , 2003, 20, 93-98.	2.7	3

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55	Preparation, Characterization and Refolding in Vitro of a Recombinant Human Cyclophilin A Mutant: Effect of a Single Pro/Ser Substitution on Cyclophilin A Structure and Properties. <i>Biotechnology Progress</i> , 2008, 24, 302-310.	2.6	3
56	Supercritical CO2 assisted micronization of curcumin-loaded oil-in-water emulsion promising in colon targeted delivery. <i>Journal of CO2 Utilization</i> , 2022, 59, 101966.	6.8	3
57	Statistical optimization and multiple objective programming of lysozyme refolding catalyzed by recombinant DsbA in vitro. <i>Process Biochemistry</i> , 2012, 47, 1268-1276.	3.7	1
58	ISOELECTRIC PRECIPITATION OF BOVINE SERUM ALBUMIN AT THE PRESSURIZED CARBON DIOXIDE. , 2004, , .		0
59	PREPARATION AND REFOLDING OF RECOMBINANT HUMAN INTERFERON-GAMMA INCLUSION BODIES. , 2004, , .		0
60	RENATURATION OF RECOMBINANT HUMAN INTERFERON GAMMA IN THE PRESENCE OF MINICHAPERONE GROEL 191-345. , 2004, , .		0