

# Xuejun Cao

## List of Publications by Year in descending order

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84  
papers

1,378  
citations

393982

19  
h-index

433756

31  
g-index

86  
all docs

86  
docs citations

86  
times ranked

1628  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective extraction of tylosin and spiramycin from fermentation broth using thermo-responsive ethylene oxide/propylene oxide aqueous two-phase systems. <i>Journal of Separation Science</i> , 2022, 45, 570-581.	1.3	1
2	Separation of antibody IgG201 by an aqueous two-phase system with recyclable pH-responsive polymers. <i>Process Biochemistry</i> , 2022, 113, 125-133.	1.8	6
3	MoS <sub>2</sub> and Fe <sub>2</sub> O <sub>3</sub> co-modify g-C <sub>3</sub> N <sub>4</sub> to improve the performance of photocatalytic hydrogen production. <i>Scientific Reports</i> , 2022, 12, 3261.	1.6	20
4	Conversion of Calcium Citrate to Citric Acid with Compressed CO <sub>2</sub> . <i>ACS Omega</i> , 2022, 7, 683-687.	1.6	6
5	Synthesis of Core@Brush Microspheres by Atom Transfer Radical Polymerization for Capturing Phosphoprotein $\beta^2$ -casein utilizing Iron Ion Chelation and Schiff Base Bio-conjugation. <i>Separation and Purification Technology</i> , 2022, , 121252.	3.9	0
6	Synthesis of molecularly imprinted polymers based on boronate affinity for diol-containing macrolide antibiotics with hydrophobicity-balanced and pH-responsive cavities. <i>Journal of Chromatography A</i> , 2021, 1642, 461969.	1.8	19
7	Partition of Tea Saponin with a Novel Recyclable Thermo-pH Aqueous Two-Phase Systems. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 3062-3078.	1.4	8
8	Synthesis of ursodeoxycholic acid by electrochemical stereoselective reduction of 7-ketolithocholic acid in aprotic solvents. <i>Scientific Reports</i> , 2021, 11, 16273.	1.6	6
9	Dosage-Dependent Antimicrobial Activity of DNA-Histone Microwebs Against <i>Staphylococcus Aureus</i> . <i>Advanced Materials Interfaces</i> , 2021, 8, 2100717.	1.9	4
10	Study of lincomycin partition in a recyclable thermo-pH responsive aqueous two-phase system. <i>Process Biochemistry</i> , 2021, 109, 27-36.	1.8	6
11	Separation of recombinant monoclonal antibodies IgG201 from a cell culture supernatant using an integrated aqueous two-phase system with thermo-separating EOPO. <i>Separation and Purification Technology</i> , 2021, 275, 119246.	3.9	7
12	Computational design of a molecularly imprinted polymer compatible with an aqueous environment for solid phase extraction of chenodeoxycholic acid. <i>Journal of Chromatography A</i> , 2020, 1609, 460490.	1.8	23
13	Polymer-supported graphene-TiO <sub>2</sub> doped with nonmetallic elements with enhanced photocatalytic reaction under visible light. <i>Journal of Materials Science</i> , 2020, 55, 1577-1591.	1.7	17
14	Preparation of a recyclable novel thermoresponsive affinity copolymer and its application towards $\beta$ -polylysine purification. <i>Process Biochemistry</i> , 2020, 88, 204-212.	1.8	10
15	Partition of spiramycin in a recyclable aqueous two-phase system based on pH-responsive and thermosensitive polymers. <i>Process Biochemistry</i> , 2020, 99, 254-264.	1.8	12
16	Study of Microbial Transglutaminase Partitioning in Thermo-pH-Responsive Aqueous Two-Phase Systems. <i>Applied Biochemistry and Biotechnology</i> , 2020, 192, 1176-1190.	1.4	9
17	Rational design and synthesis of molecularly imprinted polymers (MIP) for purifying tylosin by seeded precipitation polymerization. <i>Process Biochemistry</i> , 2020, 94, 329-339.	1.8	32
18	Partitioning of tylosin in recyclable aqueous two-phase systems based on two pH-responsive polymers. <i>Process Biochemistry</i> , 2019, 87, 204-212.	1.8	13

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19	Synthesis of pH-responsive polymers forming recyclable aqueous two-phase systems and application to the extraction of demeclocycline. <i>Biochemical Engineering Journal</i> , 2019, 142, 89-96.	1.8	14
20	Synthesis of two pH-responsive copolymers in pilot scale and its application in aqueous two-phase system. <i>Process Biochemistry</i> , 2019, 79, 185-194.	1.8	10
21	Synthesis of core-shell molecularly imprinted polymers (MIP) for spiramycin I and their application in MIP chromatography. <i>Process Biochemistry</i> , 2018, 70, 168-178.	1.8	27
22	Recyclable aqueous two-phase system based on two pH-responsive copolymers and its application to porcine circovirus type 2 Cap protein purification. <i>Journal of Chromatography A</i> , 2018, 1555, 113-123.	1.8	14
23	Separation of transglutaminase using aqueous two-phase systems composed of two pH-response polymers. <i>Journal of Chromatography A</i> , 2018, 1555, 106-112.	1.8	19
24	Application of nickel (II) thermo-responsive affinity polymer to porcine circovirus type 2 (PCV2) cap protein purification and interaction analysis by X-ray photoelectron spectroscopy (XPS). <i>Process Biochemistry</i> , 2018, 69, 216-223.	1.8	3
25	Preparation and Characterization of a pH-responsive Polymer that Interacts with Microbial Transglutaminase during Affinity Precipitation. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 31-38.	1.4	5
26	Biosynthesis of cefprozil in an aqueous two-phase system composed of pH-responsive copolymers and its crystallization analysis. <i>Process Biochemistry</i> , 2018, 64, 124-129.	1.8	8
27	Polymerization of a new thermo-responsive copolymer with N-vinylcaprolactam and its application in recyclable aqueous two-phase systems with another thermo-responsive polymer. <i>Bioresources and Bioprocessing</i> , 2018, 5, .	2.0	7
28	Novel polymer supported graphene and molybdenum sulfide as highly efficient cocatalyst for photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18105-18114.	3.8	12
29	Development of pH-responsive polymer and citrate aqueous two-phase system for extractive bioconversion of cefprozil. <i>Talanta</i> , 2017, 174, 256-264.	2.9	23
30	Metal-Chelate Affinity Precipitation with Thermo-Responsive Polymer for Purification of $\hat{\mu}$ -Poly-L-Lysine. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 1254-1264.	1.4	7
31	Molecular interaction mechanisms in reverse micellar extraction of microbial transglutaminase. <i>Journal of Chromatography A</i> , 2017, 1511, 25-36.	1.8	3
32	Preparation of pH-responsive metal chelate affinity polymer for adsorption and desorption of insulin. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 1590-1595.	1.6	7
33	Prediction of the Reverse Micellar Extraction of Papain Using Dissipative Particle Dynamics Simulation. <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 1338-1346.	1.4	2
34	Preparation of novel alkaline pH-responsive copolymers for the formation of recyclable aqueous two-phase systems and their application in the extraction of lincomycin. <i>Journal of Separation Science</i> , 2016, 39, 584-594.	1.3	10
35	Synthesis of thermo-responsive polymers recycling aqueous two-phase systems and phase formation mechanism with partition of $\hat{\mu}$ -polylysine. <i>Journal of Chromatography A</i> , 2016, 1472, 44-54.	1.8	20
36	Separation of transglutaminase by thermo-responsive affinity precipitation using l-thyroxin as ligand. <i>SpringerPlus</i> , 2016, 5, 37.	1.2	7

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37	Synthesis of surface molecularly imprinting polymers for cordycepin and its application in separating cordycepin. <i>Process Biochemistry</i> , 2016, 51, 517-527.	1.8	20
38	Immobilization of cellulase onto a recyclable thermo-responsive polymer as bioconjugate. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 128, 39-45.	1.8	30
39	Polymer supported graphene@CdS composite catalyst with enhanced photocatalytic hydrogen production from water splitting under visible light. <i>Chemical Engineering Journal</i> , 2016, 283, 816-825.	6.6	82
40	Preparation of ursodeoxycholic acid from 7-ketone lithocholic acid by stereoselective electroreduction. <i>Bioresources and Bioprocessing</i> , 2015, 2, .	2.0	4
41	Preparation of core-shell molecular imprinting polymer for lincomycin A and its application in chromatographic column. <i>Process Biochemistry</i> , 2015, 50, 1136-1145.	1.8	23
42	pH recycling aqueous two-phase systems applied in extraction of Maitake $\beta$ -Glucan and mechanism analysis using low-field nuclear magnetic resonance. <i>Journal of Chromatography A</i> , 2015, 1405, 40-48.	1.8	6
43	Microbial Transglutaminase Separation by pH-Responsive Affinity Precipitation with Crocein Orange G as the Ligand. <i>Applied Biochemistry and Biotechnology</i> , 2015, 177, 253-266.	1.4	7
44	Characterization and mechanism of MoS <sub>2</sub> /CdS composite photocatalyst used for hydrogen production from water splitting under visible light. <i>Chemical Engineering Journal</i> , 2015, 260, 642-648.	6.6	220
45	Biodegradation of cellulose by $\beta$ -glucosidase and cellulase immobilized on a pH-responsive copolymer. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 829-837.	1.4	12
46	Lipase purification by affinity precipitation with a thermo-responsive polymer immobilized Cibacron Blue F3GA ligand. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 892-899.	1.4	7
47	Synthesis of cefprozil using penicillin G acylase in recyclable aqueous two-phase systems. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 844-850.	1.4	2
48	Application of docking methods for metal chelate affinity precipitation of endo-glucanase using pH-response polymer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 412-420.	2.5	7
49	Effect of Chaotropes on Lipase Back Extraction Recovery in the Process of Reverse Micellar Extraction. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 3287-3296.	1.4	5
50	Phase diagram of novel recycling aqueous two-phase systems composed of two pH-response polymers: Experiment and modeling. <i>Fluid Phase Equilibria</i> , 2014, 364, 42-47.	1.4	11
51	Separation of lysozyme from salted duck egg white by affinity precipitation using pH-responsive polymer with an L-thyroxin ligand. <i>Separation and Purification Technology</i> , 2014, 138, 153-160.	3.9	26
52	Separation of ursodeoxycholic acid by silylation crystallization. <i>Bioresources and Bioprocessing</i> , 2014, 1, .	2.0	3
53	Preparation of ursodeoxycholic acid by direct electro-reduction of 7-ketolithocholic acid. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1276-1280.	1.2	5
54	Synthesis of two thermo-responsive copolymers forming recyclable aqueous two-phase systems and its application in cefprozil partition. <i>Journal of Chromatography A</i> , 2014, 1349, 30-36.	1.8	12

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55	Extraction of tea polysaccharides (TPS) using anionic reverse micellar system. Separation and Purification Technology, 2014, 122, 306-314.	3.9	16
56	Synthesis of two thermo-sensitive copolymers forming aqueous two-phase systems. Separation and Purification Technology, 2014, 122, 217-224.	3.9	10
57	Enzymatic synthesis of Cephalexin in recyclable aqueous two-phase systems composed by two pH responsive polymers. Biochemical Engineering Journal, 2014, 90, 301-306.	1.8	20
58	Biodegradation of microcrystalline cellulose in pH-responsive recyclable aqueous two-phase systems with water-soluble immobilized cellulase. Biochemical Engineering Journal, 2013, 79, 136-143.	1.8	9
59	Catalytic transfer hydrogenation of 7-ketolithocholic acid to ursodeoxycholic acid with Raney nickel. Journal of Industrial and Engineering Chemistry, 2013, 19, 606-613.	2.9	8
60	Affinity precipitation of cellulase using pH-response polymer with Cibacron Blue F3GA. Separation and Purification Technology, 2013, 102, 136-141.	3.9	18
61	Affinity precipitation of human serum albumin using a thermo-response polymer with an L-thyroxin ligand. BMC Biotechnology, 2013, 13, 109.	1.7	18
62	Preparation of aqueous two-phase systems composed of two pH-response polymers and liquid-liquid extraction of demeclocycline. Journal of Chromatography A, 2012, 1245, 39-45.	1.8	17
63	Biodegradation of cellulose in novel recyclable aqueous two-phase systems with water-soluble immobilized cellulase. Process Biochemistry, 2012, 47, 1998-2004.	1.8	12
64	Preparation of a pH-sensitive polyacrylate amphiphilic copolymer and its application in cellulase immobilization. Bioresource Technology, 2012, 116, 140-146.	4.8	58
65	Effect of chaotropes in reverse micellar extraction of kallikrein. Process Biochemistry, 2012, 47, 229-233.	1.8	19
66	Bioconversion of cephalosporin-G to 7-ADCA in a pH-thermo sensitive recycling aqueous two-phase systems. Process Biochemistry, 2011, 46, 1753-1758.	1.8	13
67	Production of lovastatin by a self-resistant mutant of <i>Aspergillus terreus</i> . Annals of Microbiology, 2011, 61, 615-621.	1.1	7
68	Synthesis of thermo-sensitive copolymer with affinity butyl ligand and its application in lipase purification. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 1025-1030.	1.2	6
69	Preliminary application of light-pH sensitive recycling aqueous two-phase systems to purification of lipase. Process Biochemistry, 2010, 45, 598-601.	1.8	17
70	Synthesis and application of two light-sensitive copolymers forming recyclable aqueous two-phase systems. Process Biochemistry, 2010, 45, 1928-1936.	1.8	12
71	Partition of several model bioproducts in recycling aqueous two-phase systems with pH/light responsive copolymers. Separation and Purification Technology, 2010, 76, 104-109.	3.9	6
72	Enhancement of Lovastatin Production by Supplementing Polyketide Antibiotics to the Submerged Culture of <i>Aspergillus terreus</i> . Applied Biochemistry and Biotechnology, 2010, 160, 2014-2025.	1.4	24

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73	Synthesis of 7-ketolithocholic acid via indirect electrooxidation of chenodeoxycholic acid. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 1307-1316.	1.5	7
74	Effects of porogens on the morphology and enantioselectivity of core-shell molecularly imprinted polymers with ursodeoxycholic acid. <i>Separation and Purification Technology</i> , 2010, 72, 208-216.	3.9	17
75	Preparation of a novel thermo-sensitive copolymer forming recyclable aqueous two-phase systems and its application in bioconversion of Penicillin G. <i>Separation and Purification Technology</i> , 2010, 75, 156-164.	3.9	25
76	Prediction of phase diagrams for new pH-thermo sensitive recycling aqueous two-phase systems. <i>Fluid Phase Equilibria</i> , 2010, 298, 206-211.	1.4	13
77	Bioreactors and Bioseparation. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010, 122, 105-150.	0.6	3
78	Effects of carbon sources on fungal morphology and lovastatin biosynthesis by submerged cultivation of <i>Aspergillus terreus</i> . <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 672-677.	0.8	24
79	Effects of divalent metal cations on lovastatin biosynthesis from <i>Aspergillus terreus</i> in chemically defined medium. <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 1235-1241.	1.7	20
80	Phase diagram prediction of recycling aqueous two-phase systems formed by a light-sensitive copolymer and dextran. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 147-152.	1.2	2
81	Preparation of a pH-sensitive affinity precipitation polymer and its application in purification of trypsin. <i>Separation and Purification Technology</i> , 2009, 68, 172-177.	3.9	7
82	Preparation of a novel light-sensitive copolymer and its application in recycling aqueous two-phase systems. <i>Journal of Chromatography A</i> , 2008, 1205, 171-176.	1.8	50
83	Preparation of a Light-Sensitive and Reversible Dissolution Copolymer and Its Application in Lysozyme Purification. <i>Biotechnology Progress</i> , 2007, 23, 0-0.	1.3	7
84	Concentration of 6-aminopenicillanic acid from penicillin bioconversion solution and its mother liquor by nanofiltration membrane. <i>Biotechnology and Bioprocess Engineering</i> , 2001, 6, 200-204.	1.4	19