

Songping Zhang

List of Publications by Year in descending order

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110
papers

3,294
citations

136950

32
h-index

168389

53
g-index

116
all docs

116
docs citations

116
times ranked

3910
citing authors

#	ARTICLE	IF	CITATIONS
1	Vegetable-oil-based polymers as future polymeric biomaterials. <i>Acta Biomaterialia</i> , 2014, 10, 1692-1704.	8.3	452
2	Tethering of Nicotinamide Adenine Dinucleotide Inside Hollow Nanofibers for High-Yield Synthesis of Methanol from Carbon Dioxide Catalyzed by Coencapsulated Multienzymes. <i>ACS Nano</i> , 2015, 9, 4600-4610.	14.6	142
3	Tumor microenvironment remodeling and tumor therapy based on M2-like tumor associated macrophage-targeting nano-complexes. <i>Theranostics</i> , 2021, 11, 2892-2916.	10.0	115
4	Extraction, purification and antioxidant activities of the polysaccharides from maca (<i>Lepidium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	10.2	110
5	Hybrid Cross-Linked Lipase Aggregates with Magnetic Nanoparticles: A Robust and Recyclable Biocatalysis for the Epoxidation of Oleic Acid. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 7179-7187.	5.2	89
6	Soybean oil-based polyurethane networks as candidate biomaterials: Synthesis and biocompatibility. <i>European Journal of Lipid Science and Technology</i> , 2012, 114, 1165-1174.	1.5	86
7	A novel vegetable oil-lactate hybrid monomer for synthesis of high-glycol polyurethanes. <i>Journal of Polymer Science Part A</i> , 2010, 48, 243-250.	2.3	76
8	An antimonene/Cp*Rh(phen)Cl/black phosphorus hybrid nanosheet-based Z-scheme artificial photosynthesis for enhanced photo/bio-catalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 323-333.	10.3	71
9	Synthesis of bio-based polyurethanes from epoxidized soybean oil and isopropanolamine. <i>Journal of Applied Polymer Science</i> , 2013, 127, 1929-1936.	2.6	70
10	Integration of Artificial Photosynthesis System for Enhanced Electronic Energy Transfer Efficacy: A Case Study for Solar Energy Driven Bioconversion of Carbon Dioxide to Methanol. <i>Small</i> , 2016, 12, 4753-4762.	10.0	70
11	Further studies on the contribution of electrostatic and hydrophobic interactions to protein adsorption on dye-ligand adsorbents. <i>Biotechnology and Bioengineering</i> , 2001, 75, 710-717.	3.3	67
12	Non-Magnetic Injectable Implant for Magnetic Field-Driven Thermochemotherapy and Dual Stimuli-Responsive Drug Delivery: Transformable Liquid Metal Hybrid Platform for Cancer Theranostics. <i>Small</i> , 2019, 15, e1900511.	10.0	65
13	Enabling multi-enzyme biocatalysis using coaxial-electrospun hollow nanofibers: redesign of artificial cells. <i>Journal of Materials Chemistry B</i> , 2014, 2, 181-190.	5.8	64
14	Size-exclusion HPLC provides a simple, rapid, and versatile alternative method for quality control of vaccines by characterizing the assembly of antigens. <i>Vaccine</i> , 2015, 33, 1143-1150.	3.8	58
15	Multifunctional biomimetic nanoparticles loading baicalin for polarizing tumor-associated macrophages. <i>Nanoscale</i> , 2019, 11, 20206-20220.	5.6	55
16	Artificial photosynthesis systems for solar energy conversion and storage: platforms and their realities. <i>Chemical Society Reviews</i> , 2022, 51, 6704-6737.	38.1	52
17	Iron nanoparticles augmented chemodynamic effect by alternative magnetic field for wound disinfection and healing. <i>Journal of Controlled Release</i> , 2020, 324, 598-609.	9.9	51
18	Study on protein adsorption kinetics to a dye-ligand adsorbent by the pore diffusion model. <i>Journal of Chromatography A</i> , 2002, 964, 35-46.	3.7	48

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19	High catalytic activity of immobilized laccase on core-shell magnetic nanoparticles by dopamine self-polymerization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 112, 15-24.	1.8	47
20	A hydrophobic interaction chromatography strategy for purification of inactivated foot-and-mouth disease virus. <i>Protein Expression and Purification</i> , 2015, 113, 23-29.	1.3	45
21	Porphyrin/SiO ₂ /Cp*Rh(bpy)Cl Hybrid Nanoparticles Mimicking Chloroplast with Enhanced Electronic Energy Transfer for Biocatalyzed Artificial Photosynthesis. <i>Advanced Functional Materials</i> , 2018, 28, 1705083.	14.9	45
22	WS ₂ /g-C ₃ N ₄ composite as an efficient heterojunction photocatalyst for biocatalyzed artificial photosynthesis. <i>RSC Advances</i> , 2018, 8, 20557-20567.	3.6	42
23	Improving stability of virus-like particles by ion-exchange chromatographic supports with large pore size: Advantages of gigaporous media beyond enhanced binding capacity. <i>Journal of Chromatography A</i> , 2014, 1331, 69-79.	3.7	41
24	Ready-to-use hollow nanofiber membrane-based glucose testing strips. <i>Analyst</i> , 2014, 139, 6467-6473.	3.5	41
25	Chemoenzymatic synthesis of oleic acid-based polyesters for use as highly stable biomaterials. <i>Journal of Polymer Science Part A</i> , 2008, 46, 4243-4248.	2.3	39
26	Effect of molecular mobility on coupled enzymatic reactions involving cofactor regeneration using nanoparticle-attached enzymes. <i>Journal of Biotechnology</i> , 2011, 154, 274-280.	3.8	39
27	Castor oil-based waterborne polyurethanes with tunable properties and excellent biocompatibility. <i>European Journal of Lipid Science and Technology</i> , 2016, 118, 1512-1520.	1.5	39
28	UV-curable enzymatic antibacterial waterborne polyurethane coating. <i>Biochemical Engineering Journal</i> , 2016, 113, 107-113.	3.6	39
29	Integration of functionalized two-dimensional TaS ₂ nanosheets and an electron mediator for more efficient biocatalyzed artificial photosynthesis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5511-5522.	10.3	38
30	Polyelectrolyte Doped Hollow Nanofibers for Positional Assembly of Bienzyme System for Cascade Reaction at O/W Interface. <i>ACS Catalysis</i> , 2014, 4, 4548-4559.	11.2	35
31	Purification and characterization of a novel glycoprotein from <i>Streptomyces</i> sp. ZX01. <i>International Journal of Biological Macromolecules</i> , 2015, 78, 195-201.	7.5	34
32	Magnetic field intensified bi-enzyme system with in situ cofactor regeneration supported by magnetic nanoparticles. <i>Journal of Biotechnology</i> , 2013, 168, 212-217.	3.8	33
33	Soybean Oil-Based Polyurethane Networks: Shape-Memory Effects and Surface Morphologies. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 1415-1421.	1.9	33
34	Laccase immobilized on magnetic nanoparticles by dopamine polymerization for 4-chlorophenol removal. <i>Green Energy and Environment</i> , 2017, 2, 393-400.	8.7	33
35	Mass spectrometric analysis of enzymatic digestion of denatured collagen for identification of collagen type. <i>Journal of Chromatography A</i> , 2006, 1114, 274-277.	3.7	30
36	Comparative evaluation of the physicochemical properties of nano-hydroxyapatite/collagen and natural bone ceramic/collagen scaffolds and their osteogenesis-promoting effect on MC3T3-E1 cells. <i>International Journal of Energy Production and Management</i> , 2019, 6, 361-371.	3.7	30

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37	On-line monitoring of the sol-gel transition temperature of thermosensitive chitosan/ β -glycerophosphate hydrogels by low field NMR. <i>Carbohydrate Polymers</i> , 2020, 238, 116196.	10.2	29
38	Soybean oil-based shape-memory polyurethanes: Synthesis and characterization. <i>European Journal of Lipid Science and Technology</i> , 2012, 114, 1345-1351.	1.5	28
39	Steric mass-action model for dye-ligand affinity adsorption of protein. <i>Journal of Chromatography A</i> , 2002, 957, 89-97.	3.7	27
40	TiO ₂ -Horseradish Peroxidase Hybrid Catalyst Based on Hollow Nanofibers for Simultaneous Photochemical-Enzymatic Degradation of 2,4-Dichlorophenol. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3634-3640.	6.7	27
41	Antimonene Nanosheets-Based Z-scheme Heterostructure with Enhanced Reactive Oxygen Species Generation and Photothermal Conversion Efficiency for Photonic Therapy of Cancer. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001835.	7.6	27
42	Ethylene glycol diglycidyl ether as a protein cross-linker: a case study for cross-linking of hemoglobin. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 767-775.	3.2	26
43	Enhanced Solar Energy Harvest and Electron Transfer through Intra- and Intermolecular Dual Channels in Chlorosome-Mimicking Supramolecular Self-Assemblies. <i>ACS Catalysis</i> , 2018, 8, 10732-10745.	11.2	26
44	Thermal-triggered packing of lipophilic NIR dye IR780 in hepatitis B core at critical ionic strength and cargo-host ratio for improved stability and enhanced cancer phototherapy. <i>Biomaterials</i> , 2021, 276, 121035.	11.4	25
45	Stabilization study of inactivated foot and mouth disease virus vaccine by size-exclusion HPLC and differential scanning calorimetry. <i>Vaccine</i> , 2017, 35, 2413-2419.	3.8	23
46	Boron-based nanosheets for combined cancer photothermal and photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4609-4619.	5.8	22
47	Stereoselective assembly of amino acid-based metal-biomolecule nanofibers. <i>Chemical Communications</i> , 2015, 51, 6329-6332.	4.1	21
48	Black phosphorus quantum dots encapsulated in anionic waterborne polyurethane nanoparticles for enhancing stability and reactive oxygen species generation for cancer PDT/PTT therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10650-10661.	5.8	20
49	Immobilization of glycerol dehydrogenase on magnetic silica nanoparticles for conversion of glycerol to value-added 1,3-dihydroxyacetone. <i>Biocatalysis and Biotransformation</i> , 2011, 29, 278-287.	2.0	19
50	Microcalorimetric study of adsorption and disassembling of virus-like particles on anion exchange chromatography media. <i>Journal of Chromatography A</i> , 2015, 1388, 195-206.	3.7	19
51	A Model for the Salt Effect on Adsorption Equilibrium of Basic Protein to Dye-Ligand Affinity Adsorbent. <i>Biotechnology Progress</i> , 2008, 20, 207-214.	2.6	18
52	Biocompatible cationic solid lipid nanoparticles as adjuvants effectively improve humoral and T cell immune response of foot and mouth disease vaccines. <i>Vaccine</i> , 2020, 38, 2478-2486.	3.8	18
53	An Apoferritin-Hemagglutinin Conjugate Vaccine with Encapsulated Nucleoprotein Antigen Peptide from Influenza Virus Confers Enhanced Cross Protection. <i>Bioconjugate Chemistry</i> , 2020, 31, 1948-1959.	3.6	17
54	Immobilization of native type I collagen on polypropylene fabrics as a substrate for HepG2 cell culture. <i>Journal of Biomaterials Applications</i> , 2017, 32, 93-103.	2.4	16

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55	A biomimetic VLP influenza vaccine with interior NP/interior M2e antigens constructed through a temperature shift-based encapsulation strategy. <i>Vaccine</i> , 2020, 38, 5987-5996.	3.8	16
56	Decellularized liver matrix-modified chitosan fibrous scaffold as a substrate for C3A hepatocyte culture. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 1041-1056.	3.5	16
57	Preparation and characterization of epoxidized soybean oil-based paper composite as potential water-resistant materials. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	15
58	Graphene Oxide and Polyelectrolyte Composed One-Way Expressway for Guiding Electron Transfer of Integrated Artificial Photosynthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3060-3069.	6.7	15
59	Efficient separation of homologous α -lactalbumin from transgenic bovine milk using optimized hydrophobic interaction chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 3668-3673.	3.7	14
60	Adsorption of virus-like particles on ion exchange surface: Conformational changes at different pH detected by dual polarization interferometry. <i>Journal of Chromatography A</i> , 2015, 1408, 161-168.	3.7	14
61	Denaturation of inactivated FMDV in ion exchange chromatography: Evidence by differential scanning calorimetry analysis. <i>Biochemical Engineering Journal</i> , 2017, 124, 99-107.	3.6	14
62	Crackled nanocapsules: the "imperfect" structure for enzyme immobilization. <i>Chemical Communications</i> , 2019, 55, 7155-7158.	4.1	14
63	Regulation of enzyme activity and stability through positional interaction with polyurethane nanofibers. <i>Biochemical Engineering Journal</i> , 2017, 121, 147-155.	3.6	13
64	Strong hydrophobicity enables efficient purification of HBc VLPs displaying various antigen epitopes through hydrophobic interaction chromatography. <i>Biochemical Engineering Journal</i> , 2018, 140, 157-167.	3.6	12
65	Unique stabilizing mechanism provided by biocompatible choline-based ionic liquids for inhibiting dissociation of inactivated foot-and-mouth disease virus particles. <i>RSC Advances</i> , 2019, 9, 13933-13939.	3.6	12
66	Identification of <i>Ophiocordyceps sinensis</i> and Its Artificially Cultured <i>Ophiocordyceps</i> Mycelia by Ultra-Performance Liquid Chromatography/Orbitrap Fusion Mass Spectrometry and Chemometrics. <i>Molecules</i> , 2018, 23, 1013.	3.8	11
67	Development of meningococcal polysaccharide conjugate vaccine that can elicit long-lasting and strong cellular immune response with hepatitis B core antigen virus-like particles as a novel carrier protein. <i>Vaccine</i> , 2019, 37, 956-964.	3.8	11
68	Positional assembly of multi-enzyme cascade reaction in polyelectrolyte doped microcapsule through electrospray and layer-by-layer assembly. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 206-213.	3.7	11
69	On-line separation and quantification of virus antigens of different serotypes in multivalent vaccines by capillary zone electrophoresis: A case study for quality control of foot-and-mouth disease virus vaccines. <i>Journal of Chromatography A</i> , 2021, 1637, 461834.	3.7	11
70	Purification design and practice for pertactin, the third component of acellular pertussis vaccine, from <i>Bordetella pertussis</i> . <i>Vaccine</i> , 2016, 34, 4032-4039.	3.8	10
71	A two-step heat treatment of cell disruption supernatant enables efficient removal of host cell proteins before chromatographic purification of HBc particles. <i>Journal of Chromatography A</i> , 2018, 1581-1582, 71-79.	3.7	10
72	Sandwiching multiple dehydrogenases and shared cofactor between double polyelectrolytes for enhanced communication of cofactor and enzymes. <i>Biochemical Engineering Journal</i> , 2018, 137, 40-49.	3.6	10

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73	Characterization and stabilization in process development and product formulation for super large proteinaceous particles. <i>Engineering in Life Sciences</i> , 2020, 20, 451-465.	3.6	10
74	In-situ and sensitive stability study of emulsion and aluminum adjuvanted inactivated foot-and-mouth disease virus vaccine by differential scanning fluorimetry analysis. <i>Vaccine</i> , 2020, 38, 2904-2912.	3.8	10
75	Construction of a stable w/o nano-emulsion as a potential adjuvant for foot and mouth disease virus vaccine. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017, 45, 897-906.	2.8	9
76	The potential of ionic liquids in biopharmaceutical engineering. <i>Chinese Journal of Chemical Engineering</i> , 2021, 30, 236-243.	3.5	9
77	Synthesis of red/black phosphorus-based composite nanosheets with a Z-scheme heterostructure for high-performance cancer phototherapy. <i>Nanoscale</i> , 2022, 14, 766-779.	5.6	9
78	Oil-in-ionic liquid nanoemulsion-based intranasal delivery system for influenza split-virus vaccine. <i>Journal of Controlled Release</i> , 2022, 346, 380-391.	9.9	9
79	Performance of agarose and gigaporous chromatographic media as function of pore-to-adsorbate size ratio over wide span from ovalbumin to virus like particles. <i>Journal of Chromatography A</i> , 2021, 1638, 461879.	3.7	8
80	Granum-Inspired Photoenzyme-Coupled Catalytic System via Stacked Polymeric Carbon Nitride. <i>ACS Catalysis</i> , 2021, 11, 9210-9220.	11.2	8
81	Local Destruction of Tumors for Systemic Immunoresponse: Engineering Antigen-Capturing Nanoparticles as Stimulus-Responsive Immunoadjuvants. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4995-5008.	8.0	8
82	Enzymatic waterborne polyurethane towards a robust and environmentally friendly anti-biofouling coating. <i>RSC Advances</i> , 2016, 6, 31698-31704.	3.6	7
83	A Novel Particulate Delivery System Based on Antigen-Zn ²⁺ Coordination Interactions Enhances Stability and Cellular Immune Response of Inactivated Foot and Mouth Disease Virus. <i>Molecular Pharmaceutics</i> , 2020, 17, 2952-2963.	4.6	7
84	Mechanism of bio-macromolecule denaturation on solid-liquid surface of ion-exchange chromatographic media – A case study for inactivated foot-and-mouth disease virus. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1142, 122051.	2.3	7
85	A Possible Action of Divalent Transition Metal Ions at the Interpentameric Interface of Inactivated Foot-and-Mouth Disease Virus Provides a Simple but Effective Approach To Enhance Stability. <i>Journal of Virology</i> , 2021, 95, .	3.4	7
86	Synthesis, characterization and adsorption performance of molecularly imprinted nanoparticles for tripterine by precipitation polymerization. <i>Analytical Methods</i> , 2014, 6, 684-689.	2.7	6
87	Selection of downstream steps by analysis of protein surface property: A case study for recombinant human lactoferrin purification from milk of transgenic cow. <i>Process Biochemistry</i> , 2015, 50, 1441-1448.	3.7	6
88	Polymeric Micelles Encapsulating a Small Molecule SO ₂ Fluorescent Probe Exhibiting Novel Analytical Performance and Enhanced Cellular Imaging Ability. <i>ACS Applied Bio Materials</i> , 2019, 2, 236-242.	4.6	5
89	Extraction and characterization of bovine collagen Type V and its effects on cell behaviors. <i>International Journal of Energy Production and Management</i> , 2022, 9, .	3.7	5
90	Mask-Like Symmetrical Microclusters through a Diffusion-Limited Assembly Approach. <i>Chemistry - A European Journal</i> , 2015, 21, 10185-10190.	3.3	4

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91	Effect of in vitro collagen fibrillogenesis on Langmuir-Blodgett (LB) deposition for cellular behavior regulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 179, 48-55.	5.0	4
92	Site-specific immobilization of lysozyme upon affinity chromatography resin by forecasting lysine activity and controlling pH and epoxy group density. <i>Journal of Chromatography A</i> , 2019, 1592, 192-196.	3.7	3
93	A novel thrombin inhibitory peptide discovered from leech using affinity chromatography combined with ultra-high performance liquid chromatography-high resolution mass spectroscopy. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1151, 122153.	2.3	3
94	Synergetic Enhancement of Mechanical Properties for Silk Fibers by a Green Feeding Approach with Nano-hydroxyapatite/collagen Composite Additive. <i>Journal of Natural Fibers</i> , 2022, 19, 5310-5320.	3.1	3
95	Preventive effect of swim bladder hydrolysates on cyclophosphamide-induced ovarian injury in mice. <i>Journal of Obstetrics and Gynaecology Research</i> , 2022, 48, 420-430.	1.3	3
96	Interaction of arginine with protein during refolding process probed by amide H/D exchange mass spectrometry and isothermal titration calorimetry. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 39-45.	2.3	2
97	Recovery of human serum albumin by dual-mode chromatography from the waste stream of Cohn fraction V supernatant. <i>Journal of Chromatography A</i> , 2020, 1630, 461451.	3.7	2
98	Effect of pore structure on protein adsorption mechanism on ion exchange media: A preliminary study using low field nuclear magnetic resonance. <i>Journal of Chromatography A</i> , 2021, 1639, 461904.	3.7	2
99	Apo ferritin nanoparticle based dual-antigen influenza conjugate vaccine with potential cross-protective efficacy against heterosubtypic influenza virus. <i>Particuology</i> , 2021, 64, 56-56.	3.6	2
100	Development and characterization of anti-HPV16 monoclonal antibodies for assembly of an HPV16 detection kit. <i>Biotechnology and Applied Biochemistry</i> , 2023, 70, 613-621.	3.1	2
101	Size exclusion chromatography using large pore size media induces adverse conformational changes of inactivated foot-and-mouth disease virus particles. <i>Journal of Chromatography A</i> , 2022, 1677, 463301.	3.7	2
102	Artificial Photosynthesis: Porphyrin/SiO ₂ /Cp*Rh(bpy)Cl Hybrid Nanoparticles Mimicking Chloroplast with Enhanced Electronic Energy Transfer for Biocatalyzed Artificial Photosynthesis (Adv. Funct. Mater. 9/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870061.	14.9	1
103	Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019, 35, 929-993.	4.4	1
104	Molecular dynamics study on the stability of foot-and-mouth disease virus particle in salt solution. <i>Molecular Simulation</i> , 2021, 47, 1104-1111.	2.0	1
105	Study on protein adsorption kinetics to a dye-ligand adsorbent by the pore diffusion model. <i>Journal of Chromatography A</i> , 2002, 964, 35-46.	3.7	1
106	Quantitation of Collagen Type V in Tissues by High-Performance Liquid Chromatography Coupled to Mass Spectrometry. <i>Tissue Engineering - Part C: Methods</i> , 2022, 28, 95-103.	2.1	1
107	Development of HPV58 type-specific antibodies and detection kit. <i>Preparative Biochemistry and Biotechnology</i> , 2023, 53, 223-229.	1.9	1
108	Facile purification and characterization of recombinant human antithrombin III from transgenic goat milk. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 1303-1309.	3.2	0

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109	Quantitative Detection of Isoflavones in the Extract of Red Clover by HPLC/ESI-MS. , 2007, , 101-108.		0
110	The Effect of Collagen Coating on Surface Biocompatibility of the Titanium Alloys. , 2021, , .		0