

Hu Zhang

List of Publications by Year in descending order

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147
papers

5,795
citations

76326

40
h-index

88630

70
g-index

150
all docs

150
docs citations

150
times ranked

7083
citing authors

#	ARTICLE	IF	CITATIONS
1	GSH-sensitive polymeric prodrug: Synthesis and loading with photosensitizers as nanoscale chemo-photodynamic anti-cancer nanomedicine. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 424-436.	12.0	72
2	Injection-Free Delivery of MSC-Derived Extracellular Vesicles for Myocardial Infarction Therapeutics. <i>Advanced Healthcare Materials</i> , 2022, 11, e2100312.	7.6	34
3	Synergistic Disruption of Metabolic Homeostasis through Hyperbranched Poly(ethylene glycol) Conjugates as Nanotherapeutics to Constrain Cancer Growth. <i>Advanced Materials</i> , 2022, 34, e2109036.	21.0	16
4	Nanostructured organic supports. , 2022, , 211-235.		0
5	Stimuli-Sensitive Linear-Dendritic Block Copolymer-Drug Prodrug as a Nanoplatfrom for Tumor Combination Therapy. <i>Advanced Materials</i> , 2022, 34, e2108049.	21.0	43
6	Branched Polymer-Based Redox/Enzyme-Activatable Photodynamic Nanoagent to Trigger STING-Dependent Immune Responses for Enhanced Therapeutic Effect. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	59
7	Dual stimuli-responsive dendronized prodrug derived from poly(oligo-(ethylene glycol)) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50 143, 320-332.	8.3	10
8	Chondrogenic preconditioning of mesenchymal stem/stromal cells within a magnetic scaffold for osteochondral repair. <i>Biofabrication</i> , 2022, 14, 025020.	7.1	11
9	A Dendritic Polymer-Based Nanosystem Mediates Drug Penetration and Irreversible Endoplasmic Reticulum Stresses in Tumor via Neighboring Effect. <i>Advanced Materials</i> , 2022, 34, e2201200.	21.0	29
10	A Transformable Amphiphilic and Block Polymer-Dendron Conjugate for Enhanced Tumor Penetration and Retention with Cellular Homeostasis Perturbation via Membrane Flow. <i>Advanced Materials</i> , 2022, 34, e2200048.	21.0	33
11	Green synthesis of DOX-loaded hollow MIL-100 (Fe) nanoparticles for anticancer treatment by targeting mitochondria. <i>Nanotechnology</i> , 2022, , .	2.6	0
12	Immunogenic Cell Death Activates the Tumor Immune Microenvironment to Boost the Immunotherapy Efficiency. <i>Advanced Science</i> , 2022, 9, .	11.2	140
13	Recent advances in hyaluronic acid-based nanomedicines: Preparation and application in cancer therapy. <i>Carbohydrate Polymers</i> , 2022, 292, 119662.	10.2	35
14	A hyaluronic acid-derived imaging probe for enhanced imaging and accurate staging of liver fibrosis. <i>Carbohydrate Polymers</i> , 2022, 295, 119870.	10.2	5
15	Cathepsin B-responsive and gadolinium-labeled branched glycopolymer-PTX conjugate-derived nanotheranostics for cancer treatment. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 544-559.	12.0	73
16	Dendron-polymer hybrid mediated anticancer drug delivery for suppression of mammary cancer. <i>Journal of Materials Science and Technology</i> , 2021, 63, 115-123.	10.7	7
17	Tumor microenvironment-responsive PEGylated heparin-pyropheophorbide-a nanoconjugates for photodynamic therapy. <i>Carbohydrate Polymers</i> , 2021, 255, 117490.	10.2	65
18	Advances in nanomedicines for diagnosis of central nervous system disorders. <i>Biomaterials</i> , 2021, 269, 120492.	11.4	46

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19	Functional gadolinium-based nanoscale systems for cancer theranostics. <i>Journal of Controlled Release</i> , 2021, 329, 482-512.	9.9	21
20	Recent advances in development of dendritic <sc>polymer</sc>-based nanomedicines for cancer diagnosis. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1670.	6.1	127
21	A tumor-activatable peptide supramolecular nanoplatform for the delivery of dual-gene targeted siRNAs for drug-resistant cancer treatment. <i>Nanoscale</i> , 2021, 13, 4887-4898.	5.6	12
22	A co-delivery nanoplatform for a lignan-derived compound and perfluorocarbon tuning IL-25 secretion and the oxygen level in tumor microenvironments for meliorative tumor radiotherapy. <i>Nanoscale</i> , 2021, 13, 13681-13692.	5.6	9
23	Recent advances in development of nanomedicines for multiple sclerosis diagnosis. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 024101.	3.3	6
24	Dendron-Functionalized Polyglutamate-Pyropheophorbide Conjugates as Nanomedicines for Breast Cancer Photodynamic Therapy. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100013.	3.9	6
25	Facile fabrication of multi-pocket nanoparticles with stepwise size transition for promoting deep penetration and tumor targeting. <i>Journal of Nanobiotechnology</i> , 2021, 19, 111.	9.1	12
26	An Amphiphilic PEGylated Peptide Dendron-Gemcitabine Prodrug-Based Nanoagent for Cancer Therapy. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100111.	3.9	17
27	An intracellular enzyme-responsive polymeric prodrug with synergistic effect of chemotherapy and two-photon photodynamic therapy. <i>Applied Materials Today</i> , 2021, 23, 100996.	4.3	10
28	Sub-50 nm Supramolecular Nanohybrids with Active Targeting Corona for Image-Guided Solid Tumor Treatment and Metastasis Inhibition. <i>Advanced Functional Materials</i> , 2021, 31, 2103272.	14.9	7
29	Amphiphilic block polymer-gadolinium conjugates: Design, synthesis and application as efficient and safe nanoscale magnetic resonance imaging contrast agents. <i>Chemical Engineering Journal</i> , 2021, 416, 129170.	12.7	11
30	Bacterium-mimicking sequentially targeted therapeutic nanocomplexes based on O-carboxymethyl chitosan and their cooperative therapy by dual-modality light manipulation. <i>Carbohydrate Polymers</i> , 2021, 264, 118030.	10.2	6
31	Amphiphilic branched polymer-nitroxides conjugate as a nanoscale agent for potential magnetic resonance imaging of multiple objects in vivo. <i>Journal of Nanobiotechnology</i> , 2021, 19, 205.	9.1	3
32	A nitroxides-based macromolecular MRI contrast agent with an extraordinary longitudinal relaxivity for tumor imaging via clinical T1WI SE sequence. <i>Journal of Nanobiotechnology</i> , 2021, 19, 244.	9.1	3
33	Nanomedicines modulating myeloid-derived suppressor cells for improving cancer immunotherapy. <i>Nano Today</i> , 2021, 39, 101163.	11.9	18
34	Synergistic Therapy of a Naturally Inspired Glycopolymer-Based Biomimetic Nanomedicine Harnessing Tumor Genomic Instability. <i>Advanced Materials</i> , 2021, 33, e2104594.	21.0	42
35	Dendronized hyaluronic acid-docetaxel conjugate as a stimuli-responsive nano-agent for breast cancer therapy. <i>Carbohydrate Polymers</i> , 2021, 267, 118160.	10.2	29
36	Bioreactor Technology for Cell Therapy Manufacturing in Regenerative Medicine. <i>Current Stem Cell Reports</i> , 2021, 7, 212-218.	1.6	3

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37	Enhanced chemo-photodynamic therapy of an enzyme-responsive prodrug in bladder cancer patient-derived xenograft models. <i>Biomaterials</i> , 2021, 277, 121061.	11.4	62
38	Polysaccharide-based nanomedicines for cancer immunotherapy: A review. <i>Bioactive Materials</i> , 2021, 6, 3358-3382.	15.6	74
39	ROS-responsive amphiphilic block copolymer-drug conjugate: Design, synthesis and potential as an efficient drug delivery system via a positive feedback strategy. <i>Chemical Engineering Journal</i> , 2021, 425, 131453.	12.7	23
40	Fibre-Optic Surface Plasmon Resonance Biosensor for Monoclonal Antibody Titer Quantification. <i>Biosensors</i> , 2021, 11, 383.	4.7	5
41	Self-Stabilized Supramolecular Assemblies Constructed from PEGylated Dendritic Peptide Conjugate for Augmenting Tumor Retention and Therapy. <i>Advanced Science</i> , 2021, 8, e2102741.	11.2	34
42	Allogeneic primary mesenchymal stem/stromal cell aggregates within poly(N-isopropylacrylamide-co-acrylic acid) hydrogel for osteochondral regeneration. <i>Applied Materials Today</i> , 2020, 18, 100487.	4.3	10
43	Stimuli-responsive polymeric prodrug-based nanomedicine delivering nifuroxazide and doxorubicin against primary breast cancer and pulmonary metastasis. <i>Journal of Controlled Release</i> , 2020, 318, 124-135.	9.9	79
44	CFD-DEM simulation of fluidization of multisphere- modelled cylindrical particles. <i>Powder Technology</i> , 2020, 360, 1017-1027.	4.2	28
45	Multistimuli-responsive PEGylated polymeric bioconjugate-based nano-aggregate for cancer therapy. <i>Chemical Engineering Journal</i> , 2020, 391, 123543.	12.7	59
46	Insights into the antimicrobial mechanism of Ag and I incorporated ZnO nanoparticle derivatives under visible light. <i>Materials Science and Engineering C</i> , 2020, 107, 110220.	7.3	21
47	CFD-DEM -DDM Model for Spray Coating Process in a Wurster Coater. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 3678-3689.	3.3	14
48	Entirely Synthetic Bacterial Nanomimics for Highly-Effective Tumor Suppression and Immune Elicitation. <i>Nano Today</i> , 2020, 35, 100950.	11.9	9
49	Recent Advances in Nanomedicines for Multiple Sclerosis Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 6571-6597.	4.6	7
50	Computational fluid dynamics analysis of mixing and gas-liquid mass transfer in wave bag bioreactor. <i>Biotechnology Progress</i> , 2020, 36, e3049.	2.6	11
51	Glycodendron/pyropheophorbide-a (Ppa)-functionalized hyaluronic acid as a nanosystem for tumor photodynamic therapy. <i>Carbohydrate Polymers</i> , 2020, 247, 116749.	10.2	58
52	A drug screening toolkit based on the -1 ribosomal frameshifting of SARS-CoV-2. <i>Heliyon</i> , 2020, 6, e04793.	3.2	27
53	An advanced micelle-based biodegradable HPMA polymer-gadolinium contrast agent for MR imaging of murine vasculatures and tumors. <i>Polymer Chemistry</i> , 2020, 11, 6374-6386.	3.9	3
54	Engineered gadolinium-based nanomaterials as cancer imaging agents. <i>Applied Materials Today</i> , 2020, 20, 100686.	4.3	29

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55	Enhancing the Efficacy of Metal-Free MRI Contrast Agents via Conjugating Nitroxides onto PEGylated Cross-Linked Poly(Carboxylate Ester). <i>Advanced Science</i> , 2020, 7, 2000467.	11.2	33
56	3D printing of a thermosensitive hydrogel for skin tissue engineering: A proof of concept study. <i>Bioprinting</i> , 2020, 19, e00089.	5.8	29
57	Hydrogel-based preparation of cell aggregates for biomedical applications. <i>Applied Materials Today</i> , 2020, 20, 100747.	4.3	9
58	Interfacial Biocatalytic Performance of Nanofiber-Supported β -Galactosidase for Production of Galacto-Oligosaccharides. <i>Catalysts</i> , 2020, 10, 81.	3.5	7
59	Dendronized-Polymer Disturbing Cells' Stress Protection by Targeting Metabolism Leads to Tumor Vulnerability. <i>Advanced Materials</i> , 2020, 32, e1907490.	21.0	80
60	Fabrication of a Cartilage Patch by Fusing Hydrogel-Derived Cell Aggregates onto Electrospun Film. <i>Tissue Engineering - Part A</i> , 2020, 26, 863-871.	3.1	16
61	Advances in Extrusion 3D Bioprinting: A Focus on Multicomponent Hydrogel-Based Bioinks. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901648.	7.6	190
62	Virus-Inspired Mimics: Dual-pH-Responsive Modular Nanoplatfoms for Programmable Gene Delivery without DNA Damage with the Assistance of Light. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22519-22533.	8.0	9
63	A Nanostrategy for Efficient Imaging-Guided Antitumor Therapy through a Stimuli-Responsive Branched Polymeric Prodrug. <i>Advanced Science</i> , 2020, 7, 1903243.	11.2	165
64	Tunable membrane-penetrating bio-reductive nanogels based on guanidinylated dendrimers for programmable gene delivery. <i>Applied Materials Today</i> , 2020, 20, 100646.	4.3	9
65	Nanofiber-Immobilized β -Galactosidase for Dairy Waste Conversion into Galacto-Oligosaccharides. , 2020, , 37-48.		0
66	Safe and potent MRI contrast agents by complexing gadolinium with enzyme/reduction dual-sensitive branched polymers. <i>Applied Materials Today</i> , 2019, 17, 92-103.	4.3	23
67	Tunable Hydrophile-Lipophile Balance for Manipulating Structural Stability and Tumor Retention of Amphiphilic Nanoparticles. <i>Advanced Materials</i> , 2019, 31, e1901586.	21.0	76
68	Reductive microenvironment responsive gadolinium-based polymers as potential safe MRI contrast agents. <i>Biomaterials Science</i> , 2019, 7, 1919-1932.	5.4	54
69	Cr-Ag coatings: synthesis, microstructure and antimicrobial properties. <i>Surface Engineering</i> , 2019, 35, 596-603.	2.2	4
70	Stimuli-responsive polymer-doxorubicin conjugate: Antitumor mechanism and potential as nano-prodrug. <i>Acta Biomaterialia</i> , 2019, 84, 339-355.	8.3	94
71	HPMA Polymeric Nanocarriers for Anticancer Drugs with Tumor Microenvironment-Responsive Extracellular Biodegradation and Intracellular Drug Release. <i>Journal of Biomedical Nanotechnology</i> , 2019, 15, 1688-1700.	1.1	7
72	Enzyme/pH-sensitive polyHPMA-DOX conjugate as a biocompatible and efficient anticancer agent. <i>Biomaterials Science</i> , 2018, 6, 1177-1188.	5.4	60

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73	Capturing particle-particle interactions for cylindrical fibrous particles in different flow regimes. Powder Technology, 2018, 330, 418-424.	4.2	3
74	Enhanced multi-lineage differentiation of human mesenchymal stem/stromal cells within poly(<i>N</i> -isopropylacrylamide-acrylic acid) microgel-formed three-dimensional constructs. Journal of Materials Chemistry B, 2018, 6, 1799-1814.	5.8	16
75	Enzyme-sensitive biodegradable and multifunctional polymeric conjugate as theranostic nanomedicine. Applied Materials Today, 2018, 11, 207-218.	4.3	103
76	PEGylated Multistimuli-Responsive Dendritic Prodrug-Based Nanoscale System for Enhanced Anticancer Activity. ACS Applied Materials & Interfaces, 2018, 10, 35770-35783.	8.0	40
77	NIPAM-based Microgel Microenvironment Regulates the Therapeutic Function of Cardiac Stromal Cells. ACS Applied Materials & Interfaces, 2018, 10, 37783-37796.	8.0	32
78	Tuning microenvironment for multicellular spheroid formation in thermo-responsive anionic microgel scaffolds. Journal of Biomedical Materials Research - Part A, 2018, 106, 2899-2909.	4.0	10
79	Enzyme/pH-sensitive dendritic polymer-DOX conjugate for cancer treatment. Science China Materials, 2018, 61, 1462-1474.	6.3	28
80	Computational fluid dynamic modeling of alternating tangential flow filtration for perfusion cell culture. Biotechnology and Bioengineering, 2018, 115, 2751-2759.	3.3	32
81	CHAPTER 8. Large-scale Production of Electrospun-based Mat to Explore in Electronics and Sensors. RSC Soft Matter, 2018, , 187-204.	0.4	0
82	Applying a chemical equilibrium model for optimizing struvite precipitation for ammonium recovery from anaerobic digester effluent. Journal of Cleaner Production, 2017, 147, 297-305.	9.3	65
83	Smart Carriers for Controlled Drug Delivery: Thermosensitive Polymers Embedded in Ordered Mesoporous Carbon. Journal of Pharmaceutical Sciences, 2017, 106, 1545-1552.	3.3	10
84	Advances in multicellular spheroids formation. Journal of the Royal Society Interface, 2017, 14, 20160877.	3.4	343
85	Pilot-scale study of esterification of waste oil for biodiesel production. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 29-35.	2.3	1
86	Heart Repair Using Nanogel-Encapsulated Human Cardiac Stem Cells in Mice and Pigs with Myocardial Infarction. ACS Nano, 2017, 11, 9738-9749.	14.6	128
87	Characterizing the Switching Transitions of an Adsorbed Peptide by Mapping the Potential Energy Surface. Journal of Physical Chemistry B, 2017, 121, 11455-11464.	2.6	3
88	Recirculating Spiral Bioreactor for Galactooligosaccharide Production Using Polymer Nanofiber- β -galactosidase Assembly. Industrial & Engineering Chemistry Research, 2017, 56, 12479-12487.	3.7	3
89	Microengineered 3D cell-laden thermoresponsive hydrogels for mimicking cell morphology and orientation in cartilage tissue engineering. Biotechnology and Bioengineering, 2017, 114, 217-231.	3.3	61
90	Cell-penetrating peptide-labelled smart polymers for enhanced gene delivery. Engineering in Life Sciences, 2017, 17, 193-203.	3.6	6

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91	Poly(<i>N</i> -isopropylacrylamide) hydrogel/chitosan scaffold hybrid for three-dimensional stem cell culture and cartilage tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2764-2774.	4.0	52
92	Multicellular Spheroids Formation and Recovery in Microfluidics-generated Thermo-responsive Microgel Droplets. <i>Colloids and Interface Science Communications</i> , 2016, 14, 4-7.	4.1	17
93	A mechanistic study on tumour spheroid formation in thermosensitive hydrogels: experiments and mathematical modelling. <i>RSC Advances</i> , 2016, 6, 73282-73291.	3.6	27
94	An optical fibre sensor for remotely detecting water traces in organic solvents. <i>RSC Advances</i> , 2016, 6, 82186-82190.	3.6	10
95	Manipulation of nanofiber-based β -galactosidase nanoenvironment for enhancement of galacto-oligosaccharide production. <i>Journal of Biotechnology</i> , 2016, 222, 56-64.	3.8	30
96	Explicit numerical simulation-based study of the hydrodynamics of micro-packed beds. <i>Chemical Engineering Science</i> , 2016, 145, 71-79.	3.8	9
97	Dendrimer-like nanoparticles based β -galactosidase assembly for enhancing its selectivity toward transgalactosylation. <i>Enzyme and Microbial Technology</i> , 2016, 84, 68-77.	3.2	18
98	Influence of polymer molecular weight on the in vitro cytotoxicity of poly (<i>N</i> -isopropylacrylamide). <i>Materials Science and Engineering C</i> , 2016, 59, 509-513.	7.3	30
99	Single-cell analysis for bioprocessing. <i>Engineering in Life Sciences</i> , 2015, 15, 582-592.	3.6	5
100	Polycation-mediated gene delivery: Challenges and considerations for the process of plasmid DNA transfection. <i>Engineering in Life Sciences</i> , 2015, 15, 489-498.	3.6	34
101	Nanobiocatalyst advancements and bioprocessing applications. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140891.	3.4	197
102	Enhancing enzyme stability and metabolic functional ability of β -galactosidase through functionalized polymer nanofiber immobilization. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1915-1923.	3.4	27
103	A biodegradable thermosensitive hydrogel with tuneable properties for mimicking three-dimensional microenvironments of stem cells. <i>RSC Advances</i> , 2014, 4, 63951-63961.	3.6	43
104	Endosomal pH responsive polymers for efficient cancer targeted gene therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 119, 55-65.	5.0	26
105	Intracellular Microenvironment Responsive Polymers: A Multiple-stage Transport Platform for High-performance Gene Delivery. <i>Small</i> , 2014, 10, 871-877.	10.0	21
106	A thermally responsive cationic nanogel-based platform for three-dimensional cell culture and recovery. <i>RSC Advances</i> , 2014, 4, 29146.	3.6	25
107	Intracellular Microenvironment-responsive Label-free Autofluorescent Nanogels for Traceable Gene Delivery. <i>Advanced Healthcare Materials</i> , 2014, 3, 1839-1848.	7.6	28
108	Consumer electronic optics: how small can a lens be: the case of panomorph lenses. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3

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109	Cu(OTf) ₂ -Catalyzed Selective Arene C-H Bond Hydroxylation and Nitration with KNO ₂ as an Ambident <i>O</i> - and <i>N</i> -Nucleophile via a Cu(II)→Cu(III)→Cu(I) Mechanism. Organic Letters, 2013, 15, 3836-3839.	4.6	42
110	CFD-PBE simulation of gas-phase hydrodynamics in a gas-liquid-solid combined loop reactor. Petroleum Science, 2013, 10, 251-261.	4.9	7
111	Developing a chitosan supported imidazole Schiff-base for high-efficiency gene delivery. Polymer Chemistry, 2013, 4, 840-850.	3.9	49
112	CFD simulation of particle suspension in a stirred tank. Particuology, 2013, 11, 317-326.	3.6	48
113	CFD simulation of hydrodynamics in bubble columns with perforated plate distributor. , 2013, , .		3
114	Quality by design for biopharmaceuticals: a historical review and guide for implementation. Pharmaceutical Bioprocessing, 2013, 1, 105-122.	0.8	31
115	Gene expression of single human mesenchymal stem cell in response to fluid shear. Journal of Tissue Engineering, 2012, 3, 204173141245198.	5.5	11
116	Exploring thermal reversible hydrogels for stem cell expansion in three-dimensions. Soft Matter, 2012, 8, 7250.	2.7	31
117	Exploring low-positively charged thermosensitive copolymers as gene delivery vectors. Soft Matter, 2012, 8, 1385-1394.	2.7	25
118	Structure optimization of gas-liquid combined loop reactor using a CFD-PBE coupled model. Petroleum Science, 2012, 9, 379-388.	4.9	3
119	Exploring <i>N</i> -Imidazolyl- <i>O</i> -Carboxymethyl Chitosan for High Performance Gene Delivery. Biomacromolecules, 2012, 13, 146-153.	5.4	74
120	The enhancement of neural stem cell survival and growth by coculturing with expanded sertoli cells in vitro. Biotechnology Progress, 2012, 28, 196-205.	2.6	9
121	CFD modelling of hydrodynamics and degradation kinetics in an annular slurry photocatalytic reactor for wastewater treatment. Chemical Engineering Journal, 2011, 172, 84-95.	12.7	41
122	Biomimetic three-dimensional microenvironment for controlling stem cell fate. Interface Focus, 2011, 1, 792-803.	3.0	60
123	Numerical simulation of fluid dynamics in the stirred tank by the SSG Reynolds Stress Model. Frontiers of Chemical Engineering in China, 2010, 4, 506-514.	0.6	5
124	An optical-manipulation technique for cells in physiological flows. Journal of Biological Physics, 2010, 36, 135-143.	1.5	3
125	Microwell engineering characterization for mammalian cell culture process development. Biotechnology and Bioengineering, 2010, 105, 260-275.	3.3	79
126	Gas holdup and bubble dynamics in a three-phase internal loop reactor with external slurry circulation. Fuel, 2010, 89, 1361-1369.	6.4	20

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127	Engineering Considerations for Process Development in Mammalian Cell Cultivation. Current Pharmaceutical Biotechnology, 2010, 11, 103-112.	1.6	29
128	Experiment and CFD Simulation on Gas Holdup Characteristics in an Internal Loop Reactor with External Liquid Circulation. International Journal of Chemical Reactor Engineering, 2009, 7, .	1.1	6
129	CFD simulation coupled with population balance equations for aerated stirred bioreactors. Engineering in Life Sciences, 2009, 9, 421-430.	3.6	43
130	2D and 3D Simulations of Fluid Dynamics in the Bubble Reactor for Liquid Fuel Synthesis: Comparisons Against Experiments. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2009, 31, 1598-1611.	2.3	3
131	Opto-Mechanical Manipulation of Stem Cells. The Open Nanomedicine Journal, 2009, 2, 10-14.	1.6	2
132	Engineering characterisation of a single well from 24-well and 96-well microtitre plates. Biochemical Engineering Journal, 2008, 40, 138-149.	3.6	65
133	Concentration profile of jet gas in the feed injection zone of a FCC riser. Progress in Natural Science: Materials International, 2008, 18, 1285-1291.	4.4	7
134	Optical tweezers for single cells. Journal of the Royal Society Interface, 2008, 5, 671-690.	3.4	636
135	Degradation of supercoiled plasmid DNA within a capillary device. Biotechnology and Bioengineering, 2007, 97, 1148-1157.	3.3	15
136	Determining Antibody Stability: Creation of Solid-Liquid Interfacial Effects within a High Shear Environment. Biotechnology Progress, 2007, 23, 0-0.	2.6	59
137	Prediction of Shear Damage of Plasmid DNA in Pump and Centrifuge Operations Using an Ultra Scale-Down Device. Biotechnology Progress, 2007, 23, 858-865.	2.6	10
138	Purification and Properties of a Poly (β -hydroxybutyrate) Depolymerase From <i>Penicillium</i> sp.. Journal of Polymers and the Environment, 2006, 14, 419-426.	5.0	11
139	Power consumption and mixing in a miniaturised bioreactor*. Progress in Natural Science: Materials International, 2005, 15, 117-123.	4.4	2
140	Computational-fluid-dynamics (CFD) analysis of mixing and gas-liquid mass transfer in shake flasks. Biotechnology and Applied Biochemistry, 2005, 41, 1.	3.1	97
141	Numerical simulation of the asymmetric gas phase flow field in a volute cyclone separator. Progress in Natural Science: Materials International, 2005, 15, 98-104.	4.4	5
142	Preparation of small unilamellar vesicles (SUV) and biophysical characterization of their complexes with poly-l-lysine-condensed plasmid DNA. Biotechnology and Applied Biochemistry, 2003, 37, 73.	3.1	24
143	Design of a prototype miniature bioreactor for high throughput automated bioprocessing. Chemical Engineering Science, 2003, 58, 747-758.	3.8	136
144	Prediction of size distribution of lipid-peptide-DNA vector particles using Monte Carlo simulation techniques. Biotechnology and Applied Biochemistry, 2003, 38, 95.	3.1	7

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145	Numerical Computation and Experimental Verification of the Jet Region in a Fluidized Bed. Industrial & Engineering Chemistry Research, 2002, 41, 3696-3704.	3.7	24
146	Preparation of chitooligosaccharides from chitosan by a complex enzyme. Carbohydrate Research, 1999, 320, 257-260.	2.3	145
147	CHAPTER 17. Smart Materials to Regulate the Fate of Stem Cells. RSC Smart Materials, 0, , 473-504.	0.1	4