

Hu Zhang

List of Publications by Year in descending order

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147
papers

5,795
citations

76196

40
h-index

88477

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.	5.7	72
2	Injection-Free Delivery of MSC-Derived Extracellular Vesicles for Myocardial Infarction Therapeutics. <i>Advanced Healthcare Materials</i> , 2022, 11, e2100312.	3.9	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.	11.1	16
4	Nanostructured organic supports. , 2022, , 211-235.		0
5	Stimuli-Sensitive Linear-Dendritic Block Copolymer-Drug Prodrug as a Nanoplatform for Tumor Combination Therapy. <i>Advanced Materials</i> , 2022, 34, e2108049.	11.1	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, .	7.8	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.	4.1	10
8	Chondrogenic preconditioning of mesenchymal stem/stromal cells within a magnetic scaffold for osteochondral repair. <i>Biofabrication</i> , 2022, 14, 025020.	3.7	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.	11.1	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.	11.1	33
11	Green synthesis of DOX-loaded hollow MIL-100 (Fe) nanoparticles for anticancer treatment by targeting mitochondria. <i>Nanotechnology</i> , 2022, , .	1.3	0
12	Immunogenic Cell Death Activates the Tumor Immune Microenvironment to Boost the Immunotherapy Efficiency. <i>Advanced Science</i> , 2022, 9, .	5.6	140
13	Recent advances in hyaluronic acid-based nanomedicines: Preparation and application in cancer therapy. <i>Carbohydrate Polymers</i> , 2022, 292, 119662.	5.1	35
14	A hyaluronic acid-derived imaging probe for enhanced imaging and accurate staging of liver fibrosis. <i>Carbohydrate Polymers</i> , 2022, 295, 119870.	5.1	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.	5.7	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.	5.6	7
17	Tumor microenvironment-responsive PEGylated heparin-pyropheophorbide-a nanoconjugates for photodynamic therapy. <i>Carbohydrate Polymers</i> , 2021, 255, 117490.	5.1	65
18	Advances in nanomedicines for diagnosis of central nervous system disorders. <i>Biomaterials</i> , 2021, 269, 120492.	5.7	46

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19	Functional gadolinium-based nanoscale systems for cancer theranostics. <i>Journal of Controlled Release</i> , 2021, 329, 482-512.	4.8	21
20	Recent advances in development of dendritic polymer-based nanomedicines for cancer diagnosis. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1670.	3.3	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.	2.8	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.	2.8	9
23	Recent advances in development of nanomedicines for multiple sclerosis diagnosis. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 024101.	1.7	6
24	Dendronized Functionalized Polyglutamate-Pyropheophorbide Conjugates as Nanomedicines for Breast Cancer Photodynamic Therapy. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100013.	2.0	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.	4.2	12
26	An Amphiphilic PEGylated Peptide Dendronized Gemcitabine Prodrug Based Nanoagent for Cancer Therapy. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100111.	2.0	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.	2.3	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.	7.8	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.	6.6	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.	5.1	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.	4.2	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.	4.2	3
33	Nanomedicines modulating myeloid-derived suppressor cells for improving cancer immunotherapy. <i>Nano Today</i> , 2021, 39, 101163.	6.2	18
34	Synergistic Therapy of a Naturally Inspired Glycopolymer-Based Biomimetic Nanomedicine Harnessing Tumor Genomic Instability. <i>Advanced Materials</i> , 2021, 33, e2104594.	11.1	42
35	Dendronized hyaluronic acid-docetaxel conjugate as a stimuli-responsive nano-agent for breast cancer therapy. <i>Carbohydrate Polymers</i> , 2021, 267, 118160.	5.1	29
36	Bioreactor Technology for Cell Therapy Manufacturing in Regenerative Medicine. <i>Current Stem Cell Reports</i> , 2021, 7, 212-218.	0.7	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.	5.7	62
38	Polysaccharide-based nanomedicines for cancer immunotherapy: A review. <i>Bioactive Materials</i> , 2021, 6, 3358-3382.	8.6	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.	6.6	23
40	Fibre-Optic Surface Plasmon Resonance Biosensor for Monoclonal Antibody Titer Quantification. <i>Biosensors</i> , 2021, 11, 383.	2.3	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.	5.6	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.	2.3	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.	4.8	79
44	CFD-DEM simulation of fluidization of multisphere- modelled cylindrical particles. <i>Powder Technology</i> , 2020, 360, 1017-1027.	2.1	28
45	Multistimuli-responsive PEGylated polymeric bioconjugate-based nano-aggregate for cancer therapy. <i>Chemical Engineering Journal</i> , 2020, 391, 123543.	6.6	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.	3.8	21
47	CFD-DEM -DDM Model for Spray Coating Process in a Wurster Coater. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 3678-3689.	1.6	14
48	Entirely Synthetic Bacterial Nanomimics for Highly-Effective Tumor Suppression and Immune Elicitation. <i>Nano Today</i> , 2020, 35, 100950.	6.2	9
49	Recent Advances in Nanomedicines for Multiple Sclerosis Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 6571-6597.	2.3	7
50	Computational fluid dynamics analysis of mixing and gas-liquid mass transfer in wave bag bioreactor. <i>Biotechnology Progress</i> , 2020, 36, e3049.	1.3	11
51	Glycodendron/pyropheophorbide-a (Ppa)-functionalized hyaluronic acid as a nanosystem for tumor photodynamic therapy. <i>Carbohydrate Polymers</i> , 2020, 247, 116749.	5.1	58
52	A drug screening toolkit based on the ¹ ribosomal frameshifting of SARS-CoV-2. <i>Heliyon</i> , 2020, 6, e04793.	1.4	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.	1.9	3
54	Engineered gadolinium-based nanomaterials as cancer imaging agents. <i>Applied Materials Today</i> , 2020, 20, 100686.	2.3	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.	5.6	33
56	3D printing of a thermosensitive hydrogel for skin tissue engineering: A proof of concept study. <i>Bioprinting</i> , 2020, 19, e00089.	2.9	29
57	Hydrogel-based preparation of cell aggregates for biomedical applications. <i>Applied Materials Today</i> , 2020, 20, 100747.	2.3	9
58	Interfacial Biocatalytic Performance of Nanofiber-Supported β -Galactosidase for Production of Galacto-Oligosaccharides. <i>Catalysts</i> , 2020, 10, 81.	1.6	7
59	Dendronized-Polymer Disturbing Cells' Stress Protection by Targeting Metabolism Leads to Tumor Vulnerability. <i>Advanced Materials</i> , 2020, 32, e1907490.	11.1	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.	1.6	16
61	Advances in Extrusion 3D Bioprinting: A Focus on Multicomponent Hydrogel-Based Bioinks. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901648.	3.9	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.	4.0	9
63	A Nanostrategy for Efficient Imaging-Guided Antitumor Therapy through a Stimuli-Responsive Branched Polymeric Prodrug. <i>Advanced Science</i> , 2020, 7, 1903243.	5.6	165
64	Tunable membrane-penetrating bioreductive nanogels based on guanidinylated dendrimers for programmable gene delivery. <i>Applied Materials Today</i> , 2020, 20, 100646.	2.3	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.	2.3	23
67	Tunable Hydrophile-Lipophile Balance for Manipulating Structural Stability and Tumor Retention of Amphiphilic Nanoparticles. <i>Advanced Materials</i> , 2019, 31, e1901586.	11.1	76
68	Reductive microenvironment responsive gadolinium-based polymers as potential safe MRI contrast agents. <i>Biomaterials Science</i> , 2019, 7, 1919-1932.	2.6	54
69	Cr-Ag coatings: synthesis, microstructure and antimicrobial properties. <i>Surface Engineering</i> , 2019, 35, 596-603.	1.1	4
70	Stimuli-responsive polymer-doxorubicin conjugate: Antitumor mechanism and potential as nano-prodrug. <i>Acta Biomaterialia</i> , 2019, 84, 339-355.	4.1	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.	0.5	7
72	Enzyme/pH-sensitive polyHPMA-DOX conjugate as a biocompatible and efficient anticancer agent. <i>Biomaterials Science</i> , 2018, 6, 1177-1188.	2.6	60

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73	Capturing particle-particle interactions for cylindrical fibrous particles in different flow regimes. Powder Technology, 2018, 330, 418-424.	2.1	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.	2.9	16
75	Enzyme-sensitive biodegradable and multifunctional polymeric conjugate as theranostic nanomedicine. Applied Materials Today, 2018, 11, 207-218.	2.3	103
76	PEGylated Multistimuli-Responsive Dendritic Prodrug-Based Nanoscale System for Enhanced Anticancer Activity. ACS Applied Materials & Interfaces, 2018, 10, 35770-35783.	4.0	40
77	NIPAM-based Microgel Microenvironment Regulates the Therapeutic Function of Cardiac Stromal Cells. ACS Applied Materials & Interfaces, 2018, 10, 37783-37796.	4.0	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.	2.1	10
79	Enzyme/pH-sensitive dendritic polymer-DOX conjugate for cancer treatment. Science China Materials, 2018, 61, 1462-1474.	3.5	28
80	Computational fluid dynamic modeling of alternating tangential flow filtration for perfusion cell culture. Biotechnology and Bioengineering, 2018, 115, 2751-2759.	1.7	32
81	CHAPTER 8. Large-scale Production of Electrospun-based Mat to Explore in Electronics and Sensors. RSC Soft Matter, 2018, , 187-204.	0.2	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.	4.6	65
83	Smart Carriers for Controlled Drug Delivery: Thermosensitive Polymers Embedded in Ordered Mesoporous Carbon. Journal of Pharmaceutical Sciences, 2017, 106, 1545-1552.	1.6	10
84	Advances in multicellular spheroids formation. Journal of the Royal Society Interface, 2017, 14, 20160877.	1.5	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.	1.2	1
86	Heart Repair Using Nanogel-Encapsulated Human Cardiac Stem Cells in Mice and Pigs with Myocardial Infarction. ACS Nano, 2017, 11, 9738-9749.	7.3	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.	1.2	3
88	Recirculating Spiral Bioreactor for Galactooligosaccharide Production Using Polymer Nanofiber- β -galactosidase Assembly. Industrial & Engineering Chemistry Research, 2017, 56, 12479-12487.	1.8	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.	1.7	61
90	Cell-penetrating peptide-labelled smart polymers for enhanced gene delivery. Engineering in Life Sciences, 2017, 17, 193-203.	2.0	6

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91	Poly(N-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.	2.1	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.	2.0	17
93	A mechanistic study on tumour spheroid formation in thermosensitive hydrogels: experiments and mathematical modelling. <i>RSC Advances</i> , 2016, 6, 73282-73291.	1.7	27
94	An optical fibre sensor for remotely detecting water traces in organic solvents. <i>RSC Advances</i> , 2016, 6, 82186-82190.	1.7	10
95	Manipulation of nanofiber-based β -galactosidase nanoenvironment for enhancement of galacto-oligosaccharide production. <i>Journal of Biotechnology</i> , 2016, 222, 56-64.	1.9	30
96	Explicit numerical simulation-based study of the hydrodynamics of micro-packed beds. <i>Chemical Engineering Science</i> , 2016, 145, 71-79.	1.9	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.	1.6	18
98	Influence of polymer molecular weight on the in vitro cytotoxicity of poly (N-isopropylacrylamide). <i>Materials Science and Engineering C</i> , 2016, 59, 509-513.	3.8	30
99	Single-cell analysis for bioprocessing. <i>Engineering in Life Sciences</i> , 2015, 15, 582-592.	2.0	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.	2.0	34
101	Nanobiocatalyst advancements and bioprocessing applications. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140891.	1.5	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.	1.7	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.	1.7	43
104	Endosomal pH responsive polymers for efficient cancer targeted gene therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 119, 55-65.	2.5	26
105	Intracellular Microenvironment Responsive Polymers: A Multiple-stage Transport Platform for High-performance Gene Delivery. <i>Small</i> , 2014, 10, 871-877.	5.2	21
106	A thermally responsive cationic nanogel-based platform for three-dimensional cell culture and recovery. <i>RSC Advances</i> , 2014, 4, 29146.	1.7	25
107	Intracellular Microenvironment-responsive Label-free Autofluorescent Nanogels for Traceable Gene Delivery. <i>Advanced Healthcare Materials</i> , 2014, 3, 1839-1848.	3.9	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)â€“Cu(III)â€“Cu(I) Mechanism. <i>Organic Letters</i> , 2013, 15, 3836-3839.	2.4	42
110	CFD-PBE simulation of gas-phase hydrodynamics in a gas-liquid-solid combined loop reactor. <i>Petroleum Science</i> , 2013, 10, 251-261.	2.4	7
111	Developing a chitosan supported imidazole Schiff-base for high-efficiency gene delivery. <i>Polymer Chemistry</i> , 2013, 4, 840-850.	1.9	49
112	CFD simulation of particle suspension in a stirred tank. <i>Particuology</i> , 2013, 11, 317-326.	2.0	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. <i>Pharmaceutical Bioprocessing</i> , 2013, 1, 105-122.	0.8	31
115	Gene expression of single human mesenchymal stem cell in response to fluid shear. <i>Journal of Tissue Engineering</i> , 2012, 3, 204173141245198.	2.3	11
116	Exploring thermal reversible hydrogels for stem cell expansion in three-dimensions. <i>Soft Matter</i> , 2012, 8, 7250.	1.2	31
117	Exploring low-positively charged thermosensitive copolymers as gene delivery vectors. <i>Soft Matter</i> , 2012, 8, 1385-1394.	1.2	25
118	Structure optimization of gas-liquid combined loop reactor using a CFD-PBE coupled model. <i>Petroleum Science</i> , 2012, 9, 379-388.	2.4	3
119	Exploring <i>N</i> -Imidazolyl- <i>O</i> -Carboxymethyl Chitosan for High Performance Gene Delivery. <i>Biomacromolecules</i> , 2012, 13, 146-153.	2.6	74
120	The enhancement of neural stem cell survival and growth by coculturing with expanded sertoli cells in vitro. <i>Biotechnology Progress</i> , 2012, 28, 196-205.	1.3	9
121	CFD modelling of hydrodynamics and degradation kinetics in an annular slurry photocatalytic reactor for wastewater treatment. <i>Chemical Engineering Journal</i> , 2011, 172, 84-95.	6.6	41
122	Biomimetic three-dimensional microenvironment for controlling stem cell fate. <i>Interface Focus</i> , 2011, 1, 792-803.	1.5	60
123	Numerical simulation of fluid dynamics in the stirred tank by the SSG Reynolds Stress Model. <i>Frontiers of Chemical Engineering in China</i> , 2010, 4, 506-514.	0.6	5
124	An optical-manipulation technique for cells in physiological flows. <i>Journal of Biological Physics</i> , 2010, 36, 135-143.	0.7	3
125	Microwell engineering characterization for mammalian cell culture process development. <i>Biotechnology and Bioengineering</i> , 2010, 105, 260-275.	1.7	79
126	Gas holdup and bubble dynamics in a three-phase internal loop reactor with external slurry circulation. <i>Fuel</i> , 2010, 89, 1361-1369.	3.4	20

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127	Engineering Considerations for Process Development in Mammalian Cell Cultivation. <i>Current Pharmaceutical Biotechnology</i> , 2010, 11, 103-112.	0.9	29
128	Experiment and CFD Simulation on Gas Holdup Characteristics in an Internal Loop Reactor with External Liquid Circulation. <i>International Journal of Chemical Reactor Engineering</i> , 2009, 7, .	0.6	6
129	CFD simulation coupled with population balance equations for aerated stirred bioreactors. <i>Engineering in Life Sciences</i> , 2009, 9, 421-430.	2.0	43
130	2D and 3D Simulations of Fluid Dynamics in the Bubble Reactor for Liquid Fuel Synthesis: Comparisons Against Experiments. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2009, 31, 1598-1611.	1.2	3
131	Opto-Mechanical Manipulation of Stem Cells. <i>The Open Nanomedicine Journal</i> , 2009, 2, 10-14.	1.6	2
132	Engineering characterisation of a single well from 24-well and 96-well microtitre plates. <i>Biochemical Engineering Journal</i> , 2008, 40, 138-149.	1.8	65
133	Concentration profile of jet gas in the feed injection zone of a FCC riser. <i>Progress in Natural Science: Materials International</i> , 2008, 18, 1285-1291.	1.8	7
134	Optical tweezers for single cells. <i>Journal of the Royal Society Interface</i> , 2008, 5, 671-690.	1.5	636
135	Degradation of supercoiled plasmid DNA within a capillary device. <i>Biotechnology and Bioengineering</i> , 2007, 97, 1148-1157.	1.7	15
136	Determining Antibody Stability: Creation of Solid-Liquid Interfacial Effects within a High Shear Environment. <i>Biotechnology Progress</i> , 2007, 23, 0-0.	1.3	59
137	Prediction of Shear Damage of Plasmid DNA in Pump and Centrifuge Operations Using an Ultra Scale-Down Device. <i>Biotechnology Progress</i> , 2007, 23, 858-865.	1.3	10
138	Purification and Properties of a Poly (β -hydroxybutyrate) Depolymerase From <i>Penicillium</i> sp.. <i>Journal of Polymers and the Environment</i> , 2006, 14, 419-426.	2.4	11
139	Power consumption and mixing in a miniaturised bioreactor*. <i>Progress in Natural Science: Materials International</i> , 2005, 15, 117-123.	1.8	2
140	Computational-fluid-dynamics (CFD) analysis of mixing and gas-liquid mass transfer in shake flasks. <i>Biotechnology and Applied Biochemistry</i> , 2005, 41, 1.	1.4	97
141	Numerical simulation of the asymmetric gas phase flow field in a volute cyclone separator. <i>Progress in Natural Science: Materials International</i> , 2005, 15, 98-104.	1.8	5
142	Preparation of small unilamellar vesicles (SUV) and biophysical characterization of their complexes with poly-l-lysine-condensed plasmid DNA. <i>Biotechnology and Applied Biochemistry</i> , 2003, 37, 73.	1.4	24
143	Design of a prototype miniature bioreactor for high throughput automated bioprocessing. <i>Chemical Engineering Science</i> , 2003, 58, 747-758.	1.9	136
144	Prediction of size distribution of lipid-peptide-DNA vector particles using Monte Carlo simulation techniques. <i>Biotechnology and Applied Biochemistry</i> , 2003, 38, 95.	1.4	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.	1.8	24
146	Preparation of chitooligosaccharides from chitosan by a complex enzyme. Carbohydrate Research, 1999, 320, 257-260.	1.1	145
147	CHAPTER 17. Smart Materials to Regulate the Fate of Stem Cells. RSC Smart Materials, 0, , 473-504.	0.1	4