

Hsing-Wen Sung

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

256
papers

19,483
citations

81
h-index

131
g-index

266
ext. papers

21,215
ext. citations

11.1
avg, IF

6.53
L-index

#	Paper	IF	Citations
256	Engineering a biomimetic bone scaffold that can regulate redox homeostasis and promote osteogenesis to repair large bone defects.. <i>Biomaterials</i> , 2022 , 286, 121574	15.6	1
255	Engineering an integrated electroactive dressing to accelerate wound healing and monitor noninvasively progress of healing. <i>Nano Energy</i> , 2022 , 99, 107393	17.1	6
254	Pollen-Mimetic Metal-Organic Frameworks with Tunable Spike-Like Nanostructures That Promote Cell Interactions to Improve Antigen-Specific Humoral Immunity. <i>ACS Nano</i> , 2021 , 15, 7596-7607	16.7	5
253	A fast and facile platform for fabricating phase-change materials-based drug carriers powered by chemical Marangoni effect. <i>Biomaterials</i> , 2021 , 271, 120748	15.6	3
252	Conductive Materials for Healing Wounds: Their Incorporation in Electroactive Wound Dressings, Characterization, and Perspectives. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001384	10.1	37
251	A Noninvasive Gut-to-Brain Oral Drug Delivery System for Treating Brain Tumors. <i>Advanced Materials</i> , 2021 , 33, e2100701	24	9
250	Engineering Nano- and Microparticles as Oral Delivery Vehicles to Promote Intestinal Lymphatic Drug Transport. <i>Advanced Materials</i> , 2021 , e2104139	24	2
249	Injectable conductive hydrogel can reduce pacing threshold and enhance efficacy of cardiac pacemaker. <i>Theranostics</i> , 2021 , 11, 3948-3960	12.1	4
248	Biomimetic Engineering of a Scavenger-Free Nitric Oxide-Generating/Delivering System to Enhance Radiation Therapy. <i>Small</i> , 2020 , 16, e2000655	11	10
247	A bubble bursting-mediated oral drug delivery system that enables concurrent delivery of lipophilic and hydrophilic chemotherapeutics for treating pancreatic tumors in rats. <i>Biomaterials</i> , 2020 , 255, 120157	15.6	9
246	Radiation Therapy: Biomimetic Engineering of a Scavenger-Free Nitric Oxide-Generating/Delivering System to Enhance Radiation Therapy (Small 23/2020). <i>Small</i> , 2020 , 16, 2070126	11	
245	A conductive cell-delivery construct as a bioengineered patch that can improve electrical propagation and synchronize cardiomyocyte contraction for heart repair. <i>Journal of Controlled Release</i> , 2020 , 320, 73-82	11.7	28
244	Photosynthesis-inspired H ⁺ generation using a chlorophyll-loaded liposomal nanoplatform to detect and scavenge excess ROS. <i>Nature Communications</i> , 2020 , 11, 534	17.4	29
243	Modulation of tumor microenvironment using a TLR-7/8 agonist-loaded nanoparticle system that exerts low-temperature hyperthermia and immunotherapy for in situ cancer vaccination. <i>Biomaterials</i> , 2020 , 230, 119629	15.6	49
242	A self-doping conductive polymer hydrogel that can restore electrical impulse propagation at myocardial infarct to prevent cardiac arrhythmia and preserve ventricular function. <i>Biomaterials</i> , 2020 , 231, 119672	15.6	42
241	The conductive function of biopolymer corrects myocardial scar conduction blockage and resynchronizes contraction to prevent heart failure. <i>Biomaterials</i> , 2020 , 258, 120285	15.6	18
240	Bioinspired Engineering of a Bacterium-Like Metal-Organic Framework for Cancer Immunotherapy. <i>Advanced Functional Materials</i> , 2020 , 30, 2003764	15.6	11

239	Engineering a Nanoscale Al-MOF-Armored Antigen Carried by a Trojan Horse-Like Platform for Oral Vaccination to Induce Potent and Long-Lasting Immunity. <i>Advanced Functional Materials</i> , 2019 , 29, 1904828	15.6	37
238	An in situ slow-releasing HS donor depot with long-term therapeutic effects for treating ischemic diseases. <i>Materials Science and Engineering C</i> , 2019 , 104, 109954	8.3	10
237	A self-powered battery-driven drug delivery device that can function as a micromotor and galvanically actuate localized payload release. <i>Nano Energy</i> , 2019 , 66, 104120	17.1	15
236	Single-injecting, bioinspired nanocomposite hydrogel that can recruit host immune cells in situ to elicit potent and long-lasting humoral immune responses. <i>Biomaterials</i> , 2019 , 216, 119268	15.6	29
235	Phase-Changeable Nanoemulsions for Oral Delivery of a Therapeutic Peptide: Toward Targeting the Pancreas for Antidiabetic Treatments Using Lymphatic Transport. <i>Advanced Functional Materials</i> , 2019 , 29, 1809015	15.6	18
234	Strategies for improving diabetic therapy via alternative administration routes that involve stimuli-responsive insulin-delivering systems. <i>Advanced Drug Delivery Reviews</i> , 2019 , 139, 71-82	18.5	22
233	In Situ Self-Assembling Micellar Depots that Can Actively Trap and Passively Release NO with Long-Lasting Activity to Reverse Osteoporosis. <i>Advanced Materials</i> , 2018 , 30, e1705605	24	22
232	Preservation of conductive propagation after surgical repair of cardiac defects with a bio-engineered conductive patch. <i>Journal of Heart and Lung Transplantation</i> , 2018 , 37, 912-924	5.8	22
231	Oral Nonviral Gene Delivery for Chronic Protein Replacement Therapy. <i>Advanced Science</i> , 2018 , 5, 1701079	13.6	17
230	An In Situ Depot for Continuous Evolution of Gaseous H ₂ Mediated by a Magnesium Passivation/Activation Cycle for Treating Osteoarthritis. <i>Angewandte Chemie</i> , 2018 , 130, 10023-10027	3.6	10
229	In situ self-spray coating system that can uniformly disperse a poorly water-soluble HS donor on the colorectal surface to treat inflammatory bowel diseases. <i>Biomaterials</i> , 2018 , 182, 289-298	15.6	19
228	Polypyrrole-chitosan conductive biomaterial synchronizes cardiomyocyte contraction and improves myocardial electrical impulse propagation. <i>Theranostics</i> , 2018 , 8, 2752-2764	12.1	87
227	An Intestinal "Transformers"-like Nanocarrier System for Enhancing the Oral Bioavailability of Poorly Water-Soluble Drugs. <i>ACS Nano</i> , 2018 , 12, 6389-6397	16.7	15
226	An In Situ Depot for Continuous Evolution of Gaseous H ₂ Mediated by a Magnesium Passivation/Activation Cycle for Treating Osteoarthritis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9875-9879	16.4	30
225	HO-Depleting and O-Generating Selenium Nanoparticles for Fluorescence Imaging and Photodynamic Treatment of Proinflammatory-Activated Macrophages. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5158-5172	9.5	52
224	Recent advances in CO bubble-generating carrier systems for localized controlled release. <i>Biomaterials</i> , 2017 , 133, 154-164	15.6	29
223	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
222	Safety and efficacy of self-assembling bubble carriers stabilized with sodium dodecyl sulfate for oral delivery of therapeutic proteins. <i>Journal of Controlled Release</i> , 2017 , 259, 168-175	11.7	21

221	Response to Comment on "A Liposomal System Capable of Generating CO ₂ Bubbles to Induce Transient Cavitation, Lysosomal Rupturing and Cell Necrosis". <i>Angewandte Chemie</i> , 2017 , 129, 11850-11852	16.4	85
220	In Situ Nanoreactor for Photosynthesizing H ₂ Gas To Mitigate Oxidative Stress in Tissue Inflammation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12923-12926	16.4	85
219	In situ depot comprising phase-change materials that can sustainably release a gasotransmitter HS to treat diabetic wounds. <i>Biomaterials</i> , 2017 , 145, 1-8	15.6	30
218	Response to Comment on "A Liposomal System Capable of Generating CO Bubbles to Induce Transient Cavitation, Lysosomal Rupturing and Cell Necrosis". <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11690-11692	16.4	2
217	Acidity-triggered charge-convertible nanoparticles that can cause bacterium-specific aggregation in situ to enhance photothermal ablation of focal infection. <i>Biomaterials</i> , 2017 , 116, 1-9	15.6	110
216	Enhancement of cell adhesion, retention, and survival of HUVEC/cbMSC aggregates that are transplanted in ischemic tissues by concurrent delivery of an antioxidant for therapeutic angiogenesis. <i>Biomaterials</i> , 2016 , 74, 53-63	15.6	28
215	Localized sequence-specific release of a chemopreventive agent and an anticancer drug in a time-controllable manner to enhance therapeutic efficacy. <i>Biomaterials</i> , 2016 , 101, 241-50	15.6	13
214	CD44-specific nanoparticles for redox-triggered reactive oxygen species production and doxorubicin release. <i>Acta Biomaterialia</i> , 2016 , 35, 280-92	10.8	29
213	Synergistic antibacterial effects of localized heat and oxidative stress caused by hydroxyl radicals mediated by graphene/iron oxide-based nanocomposites. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 431-8	6	73
212	Cellular Organelle-Dependent Cytotoxicity of Iron Oxide Nanoparticles and Its Implications for Cancer Diagnosis and Treatment: A Mechanistic Investigation. <i>Chemistry of Materials</i> , 2016 , 28, 9017-9025	16.4	25
211	A FRET-guided, NIR-responsive bubble-generating liposomal system for in vivo targeted therapy with spatially and temporally precise controlled release. <i>Biomaterials</i> , 2016 , 93, 48-59	15.6	53
210	An Implantable Depot That Can Generate Oxygen in Situ for Overcoming Hypoxia-Induced Resistance to Anticancer Drugs in Chemotherapy. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5222-5	16.4	239
209	Effective Photothermal Killing of Pathogenic Bacteria by Using Spatially Tunable Colloidal Gels with Nano-Localized Heating Sources. <i>Advanced Functional Materials</i> , 2015 , 25, 721-728	15.6	112
208	Self-assembling bubble carriers for oral protein delivery. <i>Biomaterials</i> , 2015 , 64, 115-24	15.6	23
207	Photothermal tumor ablation in mice with repeated therapy sessions using NIR-absorbing micellar hydrogels formed in situ. <i>Biomaterials</i> , 2015 , 56, 26-35	15.6	74
206	Controlled Release of an Anti-inflammatory Drug Using an Ultrasensitive ROS-Responsive Gas-Generating Carrier for Localized Inflammation Inhibition. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12462-5	16.4	106
205	A Conductive Polymer Hydrogel Supports Cell Electrical Signaling and Improves Cardiac Function After Implantation into Myocardial Infarct. <i>Circulation</i> , 2015 , 132, 772-84	16.7	150
204	Multimodality noninvasive imaging for assessing therapeutic effects of exogenously transplanted cell aggregates capable of angiogenesis on acute myocardial infarction. <i>Biomaterials</i> , 2015 , 73, 12-22	15.6	15

203	A rapid drug release system with a NIR light-activated molecular switch for dual-modality photothermal/antibiotic treatments of subcutaneous abscesses. <i>Journal of Controlled Release</i> , 2015 , 199, 53-62	11.7	81
202	A pH-Responsive Carrier System that Generates NO Bubbles to Trigger Drug Release and Reverse P-Glycoprotein-Mediated Multidrug Resistance. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9890-3	16.4	127
201	A pH-Responsive Carrier System that Generates NO Bubbles to Trigger Drug Release and Reverse P-Glycoprotein-Mediated Multidrug Resistance. <i>Angewandte Chemie</i> , 2015 , 127, 10028-10031	3.6	20
200	Complete destruction of deep-tissue buried tumors via combination of gene silencing and gold nanochinus-mediated photodynamic therapy. <i>Biomaterials</i> , 2015 , 62, 13-23	15.6	35
199	Photothermal Agents: Effective Photothermal Killing of Pathogenic Bacteria by Using Spatially Tunable Colloidal Gels with Nano-Localized Heating Sources (Adv. Funct. Mater. 5/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 720-720	15.6	1
198	An AS1411 aptamer-conjugated liposomal system containing a bubble-generating agent for tumor-specific chemotherapy that overcomes multidrug resistance. <i>Journal of Controlled Release</i> , 2015 , 208, 42-51	11.7	96
197	Stimuli-Responsive Materials for Controlled Release of Theranostic Agents. <i>Advanced Functional Materials</i> , 2014 , 24, 4206-4220	15.6	251
196	Treatment of chemotherapy-induced neutropenia in a rat model by using multiple daily doses of oral administration of G-CSF-containing nanoparticles. <i>Biomaterials</i> , 2014 , 35, 3641-9	15.6	11
195	Inflammation-induced drug release by using a pH-responsive gas-generating hollow-microsphere system for the treatment of osteomyelitis. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1854-61	10.1	20
194	Nanoparticles with dual responses to oxidative stress and reduced pH for drug release and anti-inflammatory applications. <i>ACS Nano</i> , 2014 , 8, 1213-21	16.7	134
193	Hyperthermia-mediated local drug delivery by a bubble-generating liposomal system for tumor-specific chemotherapy. <i>ACS Nano</i> , 2014 , 8, 5105-15	16.7	142
192	A genetically-encoded KillerRed protein as an intrinsically generated photosensitizer for photodynamic therapy. <i>Biomaterials</i> , 2014 , 35, 500-8	15.6	47
191	FRET-based dual-emission and pH-responsive nanocarriers for enhanced delivery of protein across intestinal epithelial cell barrier. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18275-89	9.5	31
190	Injectable cell constructs fabricated via culture on a thermoresponsive methylcellulose hydrogel system for the treatment of ischemic diseases. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1133-48	10.1	26
189	The use of MMP2 antibody-conjugated cationic microbubble to target the ischemic myocardium, enhance Timp3 gene transfection and improve cardiac function. <i>Biomaterials</i> , 2014 , 35, 1063-73	15.6	37
188	Highly cited research articles in <i>Journal of Controlled Release</i> : Commentaries and perspectives by authors. <i>Journal of Controlled Release</i> , 2014 , 190, 29-74	11.7	47
187	Injectable microbeads with a thermo-responsive shell and a pH-responsive core as a dual-switch-controlled release system. <i>Small</i> , 2014 , 10, 4100-5	11	12
186	Enhancement of efficiency of chitosan-based complexes for gene transfection with poly(γ -glutamic acid) by augmenting their cellular uptake and intracellular unpackage. <i>Journal of Controlled Release</i> , 2014 , 193, 304-15	11.7	28

185	Noninvasive imaging oral absorption of insulin delivered by nanoparticles and its stimulated glucose utilization in controlling postprandial hyperglycemia during OGTT in diabetic rats. <i>Journal of Controlled Release</i> , 2013 , 172, 513-22	11.7	44
184	Combination therapy via oral co-administration of insulin- and exendin-4-loaded nanoparticles to treat type 2 diabetic rats undergoing OGTT. <i>Biomaterials</i> , 2013 , 34, 7994-8001	15.6	42
183	Nanoparticle-induced tight-junction opening for the transport of an anti-angiogenic sulfated polysaccharide across Caco-2 cell monolayers. <i>Acta Biomaterialia</i> , 2013 , 9, 7449-59	10.8	56
182	Disulfide bond-conjugated dual PEGylated siRNAs for prolonged multiple gene silencing. <i>Biomaterials</i> , 2013 , 34, 6930-7	15.6	13
181	Hypoxia-induced therapeutic neovascularization in a mouse model of an ischemic limb using cell aggregates composed of HUVECs and cbMSCs. <i>Biomaterials</i> , 2013 , 34, 9441-50	15.6	30
180	Real-time visualization of pH-responsive PLGA hollow particles containing a gas-generating agent targeted for acidic organelles for overcoming multi-drug resistance. <i>Biomaterials</i> , 2013 , 34, 1-10	15.6	100
179	A thermoresponsive bubble-generating liposomal system for triggering localized extracellular drug delivery. <i>ACS Nano</i> , 2013 , 7, 438-46	16.7	220
178	A translational approach in using cell sheet fragments of autologous bone marrow-derived mesenchymal stem cells for cellular cardiomyoplasty in a porcine model. <i>Biomaterials</i> , 2013 , 34, 4582-91	15.6	33
177	Intramuscular delivery of 3D aggregates of HUVECs and cbMSCs for cellular cardiomyoplasty in rats with myocardial infarction. <i>Journal of Controlled Release</i> , 2013 , 172, 419-25	11.7	12
176	Recent advances in chitosan-based nanoparticles for oral delivery of macromolecules. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 865-79	18.5	307
175	Calcium depletion-mediated protease inhibition and apical-junctional-complex disassembly via an EGTA-conjugated carrier for oral insulin delivery. <i>Journal of Controlled Release</i> , 2013 , 169, 296-305	11.7	48
174	Effects of pH on molecular mechanisms of chitosan-integrin interactions and resulting tight-junction disruptions. <i>Biomaterials</i> , 2013 , 34, 784-93	15.6	64
173	Electrical coupling of isolated cardiomyocyte clusters grown on aligned conductive nanofibrous meshes for their synchronized beating. <i>Biomaterials</i> , 2013 , 34, 1063-72	15.6	194
172	The use of cationic microbubbles to improve ultrasound-targeted gene delivery to the ischemic myocardium. <i>Biomaterials</i> , 2013 , 34, 2107-16	15.6	58
171	Three-dimensional cell aggregates composed of HUVECs and cbMSCs for therapeutic neovascularization in a mouse model of hindlimb ischemia. <i>Biomaterials</i> , 2013 , 34, 1995-2004	15.6	38
170	Characterization of tea catechins-loaded nanoparticles prepared from chitosan and an edible polypeptide. <i>Food Hydrocolloids</i> , 2013 , 30, 33-41	10.6	155
169	Vascularization and restoration of heart function in rat myocardial infarction using transplantation of human cbMSC/HUVEC core-shell bodies. <i>Biomaterials</i> , 2012 , 33, 2127-36	15.6	26
168	Protease inhibition and absorption enhancement by functional nanoparticles for effective oral insulin delivery. <i>Biomaterials</i> , 2012 , 33, 2801-11	15.6	154

167	Mechanistic study of transfection of chitosan/DNA complexes coated by anionic poly(γ -glutamic acid). <i>Biomaterials</i> , 2012 , 33, 3306-15	15.6	59
166	Injectable PLGA porous beads cellularized by hAFSCs for cellular cardiomyoplasty. <i>Biomaterials</i> , 2012 , 33, 4069-77	15.6	54
165	Multidrug release based on microneedle arrays filled with pH-responsive PLGA hollow microspheres. <i>Biomaterials</i> , 2012 , 33, 5156-65	15.6	97
164	Elucidating the signaling mechanism of an epithelial tight-junction opening induced by chitosan. <i>Biomaterials</i> , 2012 , 33, 6254-63	15.6	62
163	A Liposomal System Capable of Generating CO ₂ Bubbles to Induce Transient Cavitation, Lysosomal Rupturing, and Cell Necrosis. <i>Angewandte Chemie</i> , 2012 , 124, 10236-10240	3.6	23
162	A liposomal system capable of generating CO ₂ bubbles to induce transient cavitation, lysosomal rupturing, and cell necrosis. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10089-93	16.4	99
161	Pulsatile drug release from PLGA hollow microspheres by controlling the permeability of their walls with a magnetic field. <i>Small</i> , 2012 , 8, 3584-8	11	66
160	pH-responsive nanoparticles shelled with chitosan for oral delivery of insulin: from mechanism to therapeutic applications. <i>Accounts of Chemical Research</i> , 2012 , 45, 619-29	24.3	184
159	Opening of epithelial tight junctions and enhancement of paracellular permeation by chitosan: microscopic, ultrastructural, and computed-tomographic observations. <i>Molecular Pharmaceutics</i> , 2012 , 9, 1271-9	5.6	154
158	Stimuli-responsive materials prepared from carboxymethyl chitosan and poly(γ -glutamic acid) for protein delivery. <i>Carbohydrate Polymers</i> , 2012 , 87, 531-536	10.3	27
157	Chitosan: Its Applications in Drug-Eluting Devices. <i>Advances in Polymer Science</i> , 2011 , 185-230	1.3	24
156	Self-organized nanoparticles prepared by guanidine- and disulfide-modified chitosan as a gene delivery carrier. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16918		33
155	Core-shell cell bodies composed of human cbMSCs and HUVECs for functional vasculogenesis. <i>Biomaterials</i> , 2011 , 32, 8446-55	15.6	26
154	Effects of chitosan-nanoparticle-mediated tight junction opening on the oral absorption of endotoxins. <i>Biomaterials</i> , 2011 , 32, 8712-21	15.6	112
153	A review of the prospects for polymeric nanoparticle platforms in oral insulin delivery. <i>Biomaterials</i> , 2011 , 32, 9826-38	15.6	327
152	Mechanisms of cellular uptake and intracellular trafficking with chitosan/DNA/poly(γ -glutamic acid) complexes as a gene delivery vector. <i>Biomaterials</i> , 2011 , 32, 239-48	15.6	142
151	Smart Multifunctional Hollow Microspheres for the Quick Release of Drugs in Intracellular Lysosomal Compartments. <i>Angewandte Chemie</i> , 2011 , 123, 8236-8239	3.6	44
150	Smart multifunctional hollow microspheres for the quick release of drugs in intracellular lysosomal compartments. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8086-9	16.4	120

149	Dendrimer-induced DNA bending. <i>Soft Matter</i> , 2011 , 7, 61-63	3.6	17
148	Enhancing the stiffness of electrospun nanofiber scaffolds with a controlled surface coating and mineralization. <i>Langmuir</i> , 2011 , 27, 9088-93	4	97
147	Magnetically directed self-assembly of electrospun superparamagnetic fibrous bundles to form three-dimensional tissues with a highly ordered architecture. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 651-61	2.9	24
146	Intracellularly monitoring/imaging the release of doxorubicin from pH-responsive nanoparticles using Föster resonance energy transfer. <i>Biomaterials</i> , 2011 , 32, 2586-92	15.6	71
145	The glucose-lowering potential of exendin-4 orally delivered via a pH-sensitive nanoparticle vehicle and effects on subsequent insulin secretion in vivo. <i>Biomaterials</i> , 2011 , 32, 2673-82	15.6	88
144	Mechanism and consequence of chitosan-mediated reversible epithelial tight junction opening. <i>Biomaterials</i> , 2011 , 32, 6164-73	15.6	234
143	Enhancement of cell retention and functional benefits in myocardial infarction using human amniotic-fluid stem-cell bodies enriched with endogenous ECM. <i>Biomaterials</i> , 2011 , 32, 5558-67	15.6	73
142	Fabrication of Novel Wound Dressing. <i>Advanced Materials Research</i> , 2010 , 123-125, 979-982	0.5	2
141	Cellular cardiomyoplasty with human amniotic fluid stem cells: in vitro and in vivo studies. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1925-36	3.9	54
140	A dual-emission Föster resonance energy transfer nanoprobe for sensing/imaging pH changes in the biological environment. <i>ACS Nano</i> , 2010 , 4, 7467-74	16.7	48
139	Thiol-modified chitosan sulfate nanoparticles for protection and release of basic fibroblast growth factor. <i>Bioconjugate Chemistry</i> , 2010 , 21, 28-38	6.3	33
138	Multifunctional core-shell polymeric nanoparticles for transdermal DNA delivery and epidermal Langerhans cells tracking. <i>Biomaterials</i> , 2010 , 31, 2425-34	15.6	96
137	Biodistribution, pharmacodynamics and pharmacokinetics of insulin analogues in a rat model: Oral delivery using pH-responsive nanoparticles vs. subcutaneous injection. <i>Biomaterials</i> , 2010 , 31, 6849-58	15.6	153
136	Heparinized chitosan/poly(L-glutamic acid) nanoparticles for multi-functional delivery of fibroblast growth factor and heparin. <i>Biomaterials</i> , 2010 , 31, 9320-32	15.6	114
135	The characteristics, cellular uptake and intracellular trafficking of nanoparticles made of hydrophobically-modified chitosan. <i>Journal of Controlled Release</i> , 2010 , 146, 152-9	11.7	180
134	Self-Assembled pH-Sensitive Nanoparticles: A Platform for Oral Delivery of Protein Drugs. <i>Advanced Functional Materials</i> , 2010 , 20, 3695-3700	15.6	89
133	Enteric-coated capsules filled with freeze-dried chitosan/poly(gamma-glutamic acid) nanoparticles for oral insulin delivery. <i>Biomaterials</i> , 2010 , 31, 3384-94	15.6	222
132	The characteristics, biodistribution, magnetic resonance imaging and biodegradability of superparamagnetic core-shell nanoparticles. <i>Biomaterials</i> , 2010 , 31, 1316-24	15.6	81

131	Effects of the nanostructure of dendrimer/DNA complexes on their endocytosis and gene expression. <i>Biomaterials</i> , 2010 , 31, 5660-70	15.6	61
130	A strategy for fabrication of a three-dimensional tissue construct containing uniformly distributed embryoid body-derived cells as a cardiac patch. <i>Biomaterials</i> , 2010 , 31, 6218-27	15.6	23
129	Cardiac repair with injectable cell sheet fragments of human amniotic fluid stem cells in an immune-suppressed rat model. <i>Biomaterials</i> , 2010 , 31, 6444-53	15.6	71
128	Enhancement of efficiencies of the cellular uptake and gene silencing of chitosan/siRNA complexes via the inclusion of a negatively charged poly(γ -glutamic acid). <i>Biomaterials</i> , 2010 , 31, 8780-8	15.6	61
127	Uniform beads with controllable pore sizes for biomedical applications. <i>Small</i> , 2010 , 6, 1492-8	11	56
126	Development of NS3/4A protease-based reporter assay suitable for efficiently assessing hepatitis C virus infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 4825-34	5.9	21
125	Effects of incorporation of poly(γ -glutamic acid) in chitosan/DNA complex nanoparticles on cellular uptake and transfection efficiency. <i>Biomaterials</i> , 2009 , 30, 1797-808	15.6	109
124	The use of injectable spherically symmetric cell aggregates self-assembled in a thermo-responsive hydrogel for enhanced cell transplantation. <i>Biomaterials</i> , 2009 , 30, 5505-13	15.6	78
123	Heparin-functionalized chitosan-alginate scaffolds for controlled release of growth factor. <i>International Journal of Pharmaceutics</i> , 2009 , 376, 69-75	6.5	140
122	A nanoscale drug-entrapment strategy for hydrogel-based systems for the delivery of poorly soluble drugs. <i>Biomaterials</i> , 2009 , 30, 2102-11	15.6	69
121	The characteristics and in vivo suppression of neointimal formation with sirolimus-eluting polymeric stents. <i>Biomaterials</i> , 2009 , 30, 79-88	15.6	62
120	In vivo evaluation of safety and efficacy of self-assembled nanoparticles for oral insulin delivery. <i>Biomaterials</i> , 2009 , 30, 2329-39	15.6	236
119	pH-triggered injectable hydrogels prepared from aqueous N-palmitoyl chitosan: in vitro characteristics and in vivo biocompatibility. <i>Biomaterials</i> , 2009 , 30, 4877-88	15.6	169
118	Mechanical properties, drug eluting characteristics and in vivo performance of a genipin-crosslinked chitosan polymeric stent. <i>Biomaterials</i> , 2009 , 30, 5560-71	15.6	50
117	The characteristics, biodistribution and bioavailability of a chitosan-based nanoparticulate system for the oral delivery of heparin. <i>Biomaterials</i> , 2009 , 30, 6629-37	15.6	93
116	Spherically symmetric mesenchymal stromal cell bodies inherent with endogenous extracellular matrices for cellular cardiomyoplasty. <i>Stem Cells</i> , 2009 , 27, 724-32	5.8	71
115	Pore-filling nanoporous templates from degradable block copolymers for nanoscale drug delivery. <i>ACS Nano</i> , 2009 , 3, 2660-6	16.7	41
114	Rapidly in situ forming hydrophobically-modified chitosan hydrogels via pH-responsive nanostructure transformation. <i>Soft Matter</i> , 2009 , 5, 962	3.6	30

113	Columnar mesophases of the complexes of DNA with low-generation poly(amido amine) dendrimers. <i>Biomacromolecules</i> , 2009 , 10, 773-83	6.9	28
112	Multi-ion-crosslinked nanoparticles with pH-responsive characteristics for oral delivery of protein drugs. <i>Journal of Controlled Release</i> , 2008 , 132, 141-9	11.7	150
111	Oral delivery of peptide drugs using nanoparticles self-assembled by poly(gamma-glutamic acid) and a chitosan derivative functionalized by trimethylation. <i>Bioconjugate Chemistry</i> , 2008 , 19, 1248-55	6.3	122
110	Direct intramyocardial injection of mesenchymal stem cell sheet fragments improves cardiac functions after infarction. <i>Cardiovascular Research</i> , 2008 , 77, 515-24	9.9	84
109	Porous tissue grafts sandwiched with multilayered mesenchymal stromal cell sheets induce tissue regeneration for cardiac repair. <i>Cardiovascular Research</i> , 2008 , 80, 88-95	9.9	51
108	The use of biodegradable polymeric nanoparticles in combination with a low-pressure gene gun for transdermal DNA delivery. <i>Biomaterials</i> , 2008 , 29, 742-51	15.6	87
107	Bioengineered cardiac patch constructed from multilayered mesenchymal stem cells for myocardial repair. <i>Biomaterials</i> , 2008 , 29, 3547-56	15.6	120
106	Myocardial Tissue Regeneration Observed in Stem-Cell Seeded Bioengineered Scaffolds 2008 , 203-221		
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