

Hsing-Wen Sung

List of Publications by Year in descending order

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255
papers

23,522
citations

4955

84
h-index

9579

142
g-index

266
all docs

266
docs citations

266
times ranked

25320
citing authors

#	ARTICLE	IF	CITATIONS
1	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
2	A novel pH-sensitive hydrogel composed of N,O-carboxymethyl chitosan and alginate cross-linked by genipin for protein drug delivery. Journal of Controlled Release, 2004, 96, 285-300.	4.8	825
3	In vivo biocompatibility and degradability of a novel injectable-chitosan-based implant. Biomaterials, 2002, 23, 181-191.	5.7	501
4	In vitro evaluation of cytotoxicity of a naturally occurring cross-linking reagent for biological tissue fixation. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 63-78.	1.9	423
5	Physically crosslinked alginate/N,O-carboxymethyl chitosan hydrogels with calcium for oral delivery of protein drugs. Biomaterials, 2005, 26, 2105-2113.	5.7	394
6	Highly cited research articles in Journal of Controlled Release: Commentaries and perspectives by authors. Journal of Controlled Release, 2014, 190, 29-74.	4.8	394
7	Recent advances in chitosan-based nanoparticles for oral delivery of macromolecules. Advanced Drug Delivery Reviews, 2013, 65, 865-879.	6.6	373
8	A review of the prospects for polymeric nanoparticle platforms in oral insulin delivery. Biomaterials, 2011, 32, 9826-9838.	5.7	371
9	Targeted nanoparticles for drug delivery through the blood-brain barrier for Alzheimer's disease. Journal of Controlled Release, 2005, 108, 193-214.	4.8	343
10	Preparation and Characterization of Nanoparticles Shelled with Chitosan for Oral Insulin Delivery. Biomacromolecules, 2007, 8, 146-152.	2.6	319
11	An Implantable Depot That Can Generate Oxygen in Situ for Overcoming Hypoxia-Induced Resistance to Anticancer Drugs in Chemotherapy. Journal of the American Chemical Society, 2016, 138, 5222-5225.	6.6	311
12	Drug release from chitosan-alginate complex beads reinforced by a naturally occurring cross-linking agent. Carbohydrate Polymers, 2002, 48, 61-72.	5.1	294
13	Stimuli-Responsive Materials for Controlled Release of Theranostic Agents. Advanced Functional Materials, 2014, 24, 4206-4220.	7.8	294
14	Review of hydrodynamic principles for the cardiologist: Applications to the study of blood flow and jets by imaging techniques. Journal of the American College of Cardiology, 1988, 12, 1344-1353.	1.2	289
15	Mechanism and consequence of chitosan-mediated reversible epithelial tight junction opening. Biomaterials, 2011, 32, 6164-6173.	5.7	289
16	Feasibility study of a natural crosslinking reagent for biological tissue fixation. Journal of Biomedical Materials Research Part B, 1998, 42, 560-567.	3.0	283
17	In vivo evaluation of safety and efficacy of self-assembled nanoparticles for oral insulin delivery. Biomaterials, 2009, 30, 2329-2339.	5.7	265
18	Evaluation of gelatin hydrogel crosslinked with various crosslinking agents as bioadhesives: In vitro study. , 1999, 46, 520-530.		260

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19	Enteric-coated capsules filled with freeze-dried chitosan/poly(β -glutamic acid) nanoparticles for oral insulin delivery. <i>Biomaterials</i> , 2010, 31, 3384-3394.	5.7	255
20	A Thermoresponsive Bubble-Generating Liposomal System for Triggering Localized Extracellular Drug Delivery. <i>ACS Nano</i> , 2013, 7, 438-446.	7.3	246
21	Synthesis and characterization of biodegradable TPP/genipin co-crosslinked chitosan gel beads. <i>Polymer</i> , 2003, 44, 6521-6530.	1.8	228
22	Electrical coupling of isolated cardiomyocyte clusters grown on aligned conductive nanofibrous meshes for their synchronized beating. <i>Biomaterials</i> , 2013, 34, 1063-1072.	5.7	228
23	Crosslinking of biological tissues using genipin and/or carbodiimide. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 64A, 427-438.	3.0	224
24	pH-Responsive Nanoparticles Shelled with Chitosan for Oral Delivery of Insulin: From Mechanism to Therapeutic Applications. <i>Accounts of Chemical Research</i> , 2012, 45, 619-629.	7.6	206
25	Synthesis and characterization of a novel chitosan-based network prepared using naturally occurring crosslinker. <i>Journal of Polymer Science Part A</i> , 2000, 38, 2804-2814.	2.5	205
26	Effects of crosslinking degree of an acellular biological tissue on its tissue regeneration pattern. <i>Biomaterials</i> , 2004, 25, 3541-3552.	5.7	202
27	A Conductive Polymer Hydrogel Supports Cell Electrical Signaling and Improves Cardiac Function After Implantation into Myocardial Infarct. <i>Circulation</i> , 2015, 132, 772-784.	1.6	199
28	Preparation of Nanoparticles Composed of Chitosan/Poly- β -glutamic Acid and Evaluation of Their Permeability through Caco-2 Cells. <i>Biomacromolecules</i> , 2005, 6, 1104-1112.	2.6	196
29	Evaluation of gelatin hydrogel crosslinked with various crosslinking agents as bioadhesives: In vitro study. , 1999, 46, 520.		196
30	Stability of a biological tissue fixed with a naturally occurring crosslinking agent (genipin). <i>Journal of Biomedical Materials Research Part B</i> , 2001, 55, 538-546.	3.0	194
31	Opening of Epithelial Tight Junctions and Enhancement of Paracellular Permeation by Chitosan: Microscopic, Ultrastructural, and Computed-Tomographic Observations. <i>Molecular Pharmaceutics</i> , 2012, 9, 1271-1279.	2.3	194
32	The characteristics, cellular uptake and intracellular trafficking of nanoparticles made of hydrophobically-modified chitosan. <i>Journal of Controlled Release</i> , 2010, 146, 152-159.	4.8	192
33	Crosslinking structures of gelatin hydrogels crosslinked with genipin or a water-soluble carbodiimide. <i>Journal of Applied Polymer Science</i> , 2004, 91, 4017-4026.	1.3	191
34	pH-triggered injectable hydrogels prepared from aqueous N-palmitoyl chitosan: In vitro characteristics and in vivo biocompatibility. <i>Biomaterials</i> , 2009, 30, 4877-4888.	5.7	185
35	Genipin-crosslinked gelatin microspheres as a drug carrier for intramuscular administration: In vitro and in vivo studies. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 65A, 271-282.	3.0	183
36	Protease inhibition and absorption enhancement by functional nanoparticles for effective oral insulin delivery. <i>Biomaterials</i> , 2012, 33, 2801-2811.	5.7	178

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37	Characterization of tea catechins-loaded nanoparticles prepared from chitosan and an edible polypeptide. <i>Food Hydrocolloids</i> , 2013, 30, 33-41.	5.6	178
38	Paclitaxel-loaded poly(β -glutamic acid)-poly(lactide) nanoparticles as a targeted drug delivery system for the treatment of liver cancer. <i>Biomaterials</i> , 2006, 27, 2051-2059.	5.7	176
39	In vitro evaluation of a chitosan membrane cross-linked with genipin. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001, 12, 835-850.	1.9	172
40	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, 6849-6858.	5.7	172
41	Multi-ion-crosslinked nanoparticles with pH-responsive characteristics for oral delivery of protein drugs. <i>Journal of Controlled Release</i> , 2008, 132, 141-149.	4.8	168
42	Biocompatibility study of a biological tissue fixed with a naturally occurring crosslinking reagent. <i>Journal of Biomedical Materials Research Part B</i> , 1998, 42, 568-576.	3.0	165
43	Nanoparticles with Dual Responses to Oxidative Stress and Reduced pH for Drug Release and Anti-inflammatory Applications. <i>ACS Nano</i> , 2014, 8, 1213-1221.	7.3	162
44	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, 9890-9893.	7.2	162
45	Heparin-functionalized chitosan/alginate scaffolds for controlled release of growth factor. <i>International Journal of Pharmaceutics</i> , 2009, 376, 69-75.	2.6	161
46	Hyperthermia-Mediated Local Drug Delivery by a Bubble-Generating Liposomal System for Tumor-Specific Chemotherapy. <i>ACS Nano</i> , 2014, 8, 5105-5115.	7.3	160
47	In vivo evaluation of cellular and acellular bovine pericardia fixed with a naturally occurring crosslinking agent (genipin). <i>Biomaterials</i> , 2002, 23, 2447-2457.	5.7	157
48	In vitro evaluation of the genotoxicity of a naturally occurring crosslinking agent (genipin) for biologic tissue fixation. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 52, 58-65.	3.0	155
49	Mechanisms of cellular uptake and intracellular trafficking with chitosan/DNA/poly(β -glutamic acid) complexes as a gene delivery vector. <i>Biomaterials</i> , 2011, 32, 239-248.	5.7	154
50	Crosslinking characteristics and mechanical properties of a bovine pericardium fixed with a naturally occurring crosslinking agent. , 1999, 47, 116-126.		152
51	Novel Method Using a Temperature-Sensitive Polymer (Methylcellulose) to Thermally Gel Aqueous Alginate as a pH-Sensitive Hydrogel. <i>Biomacromolecules</i> , 2004, 5, 1917-1925.	2.6	151
52	Smart Multifunctional Hollow Microspheres for the Quick Release of Drugs in Intracellular Lysosomal Compartments. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8086-8089.	7.2	148
53	Rapidly Self-Expandable Polymeric Stents with a Shape-Memory Property. <i>Biomacromolecules</i> , 2007, 8, 2774-2780.	2.6	142
54	Oral Delivery of Peptide Drugs Using Nanoparticles Self-Assembled by Poly(β -glutamic acid) and a Chitosan Derivative Functionalized by Trimethylation. <i>Bioconjugate Chemistry</i> , 2008, 19, 1248-1255.	1.8	137

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55	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, 12462-12465.	6.6	136
56	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.	5.7	135
57	Bioengineered cardiac patch constructed from multilayered mesenchymal stem cells for myocardial repair. <i>Biomaterials</i> , 2008, 29, 3547-3556.	5.7	134
58	A genipin-crosslinked gelatin membrane as wound-dressing material: in vitro and in vivo studies. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003, 14, 481-495.	1.9	132
59	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.	7.8	132
60	Effects of chitosan-nanoparticle-mediated tight junction opening on the oral absorption of endotoxins. <i>Biomaterials</i> , 2011, 32, 8712-8721.	5.7	127
61	A novel drug-eluting stent spray-coated with multi-layers of collagen and sirolimus. <i>Journal of Controlled Release</i> , 2005, 108, 178-189.	4.8	126
62	Shell-crosslinked Pluronic L121 micelles as a drug delivery vehicle. <i>Biomaterials</i> , 2007, 28, 725-734.	5.7	126
63	Heparinized chitosan/poly(β -glutamic acid) nanoparticles for multi-functional delivery of fibroblast growth factor and heparin. <i>Biomaterials</i> , 2010, 31, 9320-9332.	5.7	125
64	Novel Living Cell Sheet Harvest System Composed of Thermoreversible Methylcellulose Hydrogels. <i>Biomacromolecules</i> , 2006, 7, 736-743.	2.6	119
65	Multidrug release based on microneedle arrays filled with pH-responsive PLGA hollow microspheres. <i>Biomaterials</i> , 2012, 33, 5156-5165.	5.7	119
66	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.	4.8	119
67	Polypyrrole-chitosan conductive biomaterial synchronizes cardiomyocyte contraction and improves myocardial electrical impulse propagation. <i>Theranostics</i> , 2018, 8, 2752-2764.	4.6	119
68	Effects of incorporation of poly(β -glutamic acid) in chitosan/DNA complex nanoparticles on cellular uptake and transfection efficiency. <i>Biomaterials</i> , 2009, 30, 1797-1808.	5.7	118
69	<i>In Situ</i> 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.	6.6	117
70	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, 431-438.	1.7	113
71	Turbulent shear stress measurements in the vicinity of aortic heart valve prostheses. <i>Journal of Biomechanics</i> , 1986, 19, 433-442.	0.9	112
72	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, 10089-10093.	7.2	112

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73	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.	5.7	111
74	Preparation of nanoparticles composed of poly(L-glutamic acid)-poly(lactide) block copolymers and evaluation of their uptake by HepG2 cells. <i>Journal of Controlled Release</i> , 2005, 105, 213-225.	4.8	107
75	The characteristics, biodistribution and bioavailability of a chitosan-based nanoparticulate system for the oral delivery of heparin. <i>Biomaterials</i> , 2009, 30, 6629-6637.	5.7	106
76	Multifunctional core-shell polymeric nanoparticles for transdermal DNA delivery and epidermal Langerhans cells tracking. <i>Biomaterials</i> , 2010, 31, 2425-2434.	5.7	106
77	Self-Assembled pH-Sensitive Nanoparticles: A Platform for Oral Delivery of Protein Drugs. <i>Advanced Functional Materials</i> , 2010, 20, 3695-3700.	7.8	104
78	Enhancing the Stiffness of Electrospun Nanofiber Scaffolds with a Controlled Surface Coating and Mineralization. <i>Langmuir</i> , 2011, 27, 9088-9093.	1.6	104
79	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, 2673-2682.	5.7	103
80	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.	4.8	102
81	Fixation of biological tissues with a naturally occurring crosslinking agent: Fixation rate and effects of pH, temperature, and initial fixative concentration. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 52, 77-87.	3.0	98
82	The use of biodegradable polymeric nanoparticles in combination with a low-pressure gene gun for transdermal DNA delivery. <i>Biomaterials</i> , 2008, 29, 742-751.	5.7	96
83	Photothermal tumor ablation in mice with repeated therapy sessions using NIR-absorbing micellar hydrogels formed in situ. <i>Biomaterials</i> , 2015, 56, 26-35.	5.7	93
84	Mechanical properties of a porcine aortic valve fixed with a naturally occurring crosslinking agent. <i>Biomaterials</i> , 1999, 20, 1759-1772.	5.7	91
85	Direct intramyocardial injection of mesenchymal stem cell sheet fragments improves cardiac functions after infarction. <i>Cardiovascular Research</i> , 2008, 77, 515-524.	1.8	91
86	Conductive Materials for Healing Wounds: Their Incorporation in Electroactive Wound Dressings, Characterization, and Perspectives. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001384.	3.9	88
87	The characteristics, biodistribution, magnetic resonance imaging and biodegradability of superparamagnetic core-shell nanoparticles. <i>Biomaterials</i> , 2010, 31, 1316-1324.	5.7	87
88	The use of injectable spherically symmetric cell aggregates self-assembled in a thermo-responsive hydrogel for enhanced cell transplantation. <i>Biomaterials</i> , 2009, 30, 5505-5513.	5.7	86
89	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.	5.7	86
90	A Natural Compound (Ginsenoside Re) Isolated from <i>Panax ginseng</i> as a Novel Angiogenic Agent for Tissue Regeneration. <i>Pharmaceutical Research</i> , 2005, 22, 636-646.	1.7	82

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91	Novel nanoparticles for oral insulin delivery via the paracellular pathway. <i>Nanotechnology</i> , 2007, 18, 105102.	1.3	82
92	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.	5.7	82
93	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, 5558-5567.	5.7	81
94	Release of indomethacin from a novel chitosan microsphere prepared by a naturally occurring crosslinker: Examination of crosslinking and polycation-anionic drug interaction. <i>Journal of Applied Polymer Science</i> , 2001, 81, 1700-1711.	1.3	80
95	Intracellularly monitoring/imaging the release of doxorubicin from pH-responsive nanoparticles using Förster resonance energy transfer. <i>Biomaterials</i> , 2011, 32, 2586-2592.	5.7	80
96	Spherically Symmetric Mesenchymal Stromal Cell Bodies Inherent with Endogenous Extracellular Matrices for Cellular Cardiomyoplasty. <i>Stem Cells</i> , 2009, 27, 724-732.	1.4	79
97	Cross-linking characteristics of biological tissues fixed with monofunctional or multifunctional epoxy compounds. <i>Biomaterials</i> , 1996, 17, 1405-1410.	5.7	78
98	Cardiac repair with injectable cell sheet fragments of human amniotic fluid stem cells in an immune-suppressed rat model. <i>Biomaterials</i> , 2010, 31, 6444-6453.	5.7	78
99	Paclitaxel-Loaded Poly(β -glutamic acid)-poly(lactide) Nanoparticles as a Targeted Drug Delivery System against Cultured HepG2 Cells. <i>Bioconjugate Chemistry</i> , 2006, 17, 291-299.	1.8	77
100	H ₂ O ₂ -Depleting and O ₂ -Generating Selenium Nanoparticles for Fluorescence Imaging and Photodynamic Treatment of Proinflammatory-Activated Macrophages. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5158-5172.	4.0	77
101	A nanoscale drug-entrapment strategy for hydrogel-based systems for the delivery of poorly soluble drugs. <i>Biomaterials</i> , 2009, 30, 2102-2111.	5.7	76
102	Pulsatile Drug Release from PLGA Hollow Microspheres by Controlling the Permeability of Their Walls with a Magnetic Field. <i>Small</i> , 2012, 8, 3584-3588.	5.2	74
103	Elucidating the signaling mechanism of an epithelial tight-junction opening induced by chitosan. <i>Biomaterials</i> , 2012, 33, 6254-6263.	5.7	74
104	Gelatin-derived bioadhesives for closing skin wounds: An in vivo study. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 751-771.	1.9	73
105	The characteristics and in vivo suppression of neointimal formation with sirolimus-eluting polymeric stents. <i>Biomaterials</i> , 2009, 30, 79-88.	5.7	73
106	Effects of pH on molecular mechanisms of chitosan-integrin interactions and resulting tight-junction disruptions. <i>Biomaterials</i> , 2013, 34, 784-793.	5.7	72
107	Uniform Beads with Controllable Pore Sizes for Biomedical Applications. <i>Small</i> , 2010, 6, 1492-1498.	5.2	70
108	The use of cationic microbubbles to improve ultrasound-targeted gene delivery to the ischemic myocardium. <i>Biomaterials</i> , 2013, 34, 2107-2116.	5.7	70

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109	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, 7449-7459.	4.1	69
110	In vitro hemodynamic characteristics of tissue bioprostheses in the aortic position. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1986, 92, 198-209.	0.4	67
111	Effects of heparin immobilization on the surface characteristics of a biological tissue fixed with a naturally occurring crosslinking agent (genipin): an in vitro study. <i>Biomaterials</i> , 2001, 22, 523-533.	5.7	67
112	Enhancement of efficiencies of the cellular uptake and gene silencing of chitosan/siRNA complexes via the inclusion of a negatively charged poly(β -glutamic acid). <i>Biomaterials</i> , 2010, 31, 8780-8788.	5.7	67
113	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.	7.8	67
114	Effects of the nanostructure of dendrimer/DNA complexes on their endocytosis and gene expression. <i>Biomaterials</i> , 2010, 31, 5660-5670.	5.7	65
115	Mechanistic study of transfection of chitosan/DNA complexes coated by anionic poly(β -glutamic acid). <i>Biomaterials</i> , 2012, 33, 3306-3315.	5.7	63
116	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.	4.8	61
117	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.	5.7	61
118	Photosynthesis-inspired H ₂ generation using a chlorophyll-loaded liposomal nanoplatform to detect and scavenge excess ROS. <i>Nature Communications</i> , 2020, 11, 534.	5.8	61
119	Injectable PLGA porous beads cellularized by hAFSCs for cellular cardiomyoplasty. <i>Biomaterials</i> , 2012, 33, 4069-4077.	5.7	60
120	Crosslinking characteristics of an epoxy-fixed porcine tendon: Effects of pH, temperature, and fixative concentration. , 1996, 31, 511-518.		59
121	Mechanical properties, drug eluting characteristics and in vivo performance of a genipin-crosslinked chitosan polymeric stent. <i>Biomaterials</i> , 2009, 30, 5560-5571.	5.7	59
122	Cellular Cardiomyoplasty with Human Amniotic Fluid Stem Cells: <i>In Vitro</i> and <i>In Vivo</i> Studies. <i>Tissue Engineering - Part A</i> , 2010, 16, 1925-1936.	1.6	59
123	Physicochemical, Antimicrobial, and Cytotoxic Characteristics of a Chitosan Film Cross-Linked by a Naturally Occurring Cross-Linking Agent, Aglycone Geniposidic Acid. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 3290-3296.	2.4	58
124	In vitro surface characterization of a biological patch fixed with a naturally occurring crosslinking agent. <i>Biomaterials</i> , 2000, 21, 1353-1362.	5.7	57
125	A genetically-encoded KillerRed protein as an intrinsically generated photosensitizer for photodynamic therapy. <i>Biomaterials</i> , 2014, 35, 500-508.	5.7	56
126	Synthesis of a Novel Glycoconjugated Chitosan and Preparation of Its Derived Nanoparticles for Targeting HepG2 Cells. <i>Biomacromolecules</i> , 2007, 8, 892-898.	2.6	54

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127	Gelatin microspheres encapsulated with a nonpeptide angiogenic agent, ginsenoside Rg1, for intramyocardial injection in a rat model with infarcted myocardium. <i>Journal of Controlled Release</i> , 2007, 120, 27-34.	4.8	54
128	Porous tissue grafts sandwiched with multilayered mesenchymal stromal cell sheets induce tissue regeneration for cardiac repair. <i>Cardiovascular Research</i> , 2008, 80, 88-95.	1.8	54
129	Construction of varying porous structures in acellular bovine pericardia as a tissue-engineering extracellular matrix. <i>Biomaterials</i> , 2005, 26, 1905-1913.	5.7	53
130	Porous acellular bovine pericardia seeded with mesenchymal stem cells as a patch to repair a myocardial defect in a syngeneic rat model. <i>Biomaterials</i> , 2006, 27, 5409-5419.	5.7	52
131	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.	4.8	51
132	A Dual-Emission Förster Resonance Energy Transfer Nanoprobe for Sensing/Imaging pH Changes in the Biological Environment. <i>ACS Nano</i> , 2010, 4, 7467-7474.	7.3	50
133	In situ depot comprising phase-change materials that can sustainably release a gasotransmitter H ₂ S to treat diabetic wounds. <i>Biomaterials</i> , 2017, 145, 1-8.	5.7	50
134	Construction and characterization of fragmented mesenchymal-stem-cell sheets for intramuscular injection. <i>Biomaterials</i> , 2007, 28, 4643-4651.	5.7	49
135	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, 513-522.	4.8	49
136	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.	5.7	49
137	Stability of angiogenic agents, ginsenoside Rg1 and Re, isolated from <i>Panax ginseng</i> : In vitro and in vivo studies. <i>International Journal of Pharmaceutics</i> , 2007, 328, 168-176.	2.6	47
138	Pore-Filling Nanoporous Templates from Degradable Block Copolymers for Nanoscale Drug Delivery. <i>ACS Nano</i> , 2009, 3, 2660-2666.	7.3	47
139	Two-dimensional velocity measurements in a pulsatile flow model of the normal abdominal aorta simulating different hemodynamic conditions. <i>Journal of Biomechanics</i> , 1993, 26, 1237-1247.	0.9	46
140	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.	5.7	46
141	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.	7.2	46
142	Complete destruction of deep-tissue buried tumors via combination of gene silencing and gold nanoechinus-mediated photodynamic therapy. <i>Biomaterials</i> , 2015, 62, 13-23.	5.7	45
143	The conductive function of biopolymer corrects myocardial scar conduction blockage and resynchronizes contraction to prevent heart failure. <i>Biomaterials</i> , 2020, 258, 120285.	5.7	45
144	Reconstruction of the right ventricular outflow tract with a bovine jugular vein graft fixed with a naturally occurring crosslinking agent (genipin) in a canine model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2001, 122, 1208-1218.	0.4	44

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145	Novel Method of Forming Human Embryoid Bodies in a Polystyrene Dish Surface-Coated with a Temperature-Responsive Methylcellulose Hydrogel. <i>Biomacromolecules</i> , 2007, 8, 2746-2752.	2.6	44
146	Fabrication of chondroitin sulfate-chitosan composite artificial extracellular matrix for stabilization of fibroblast growth factor. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 1-15.	2.1	43
147	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, 1063-1073.	5.7	43
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