

Hsing-Wen Sung

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2772757/hsing-wen-sung-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	A novel pH-sensitive hydrogel composed of N,O-carboxymethyl chitosan and alginate cross-linked by genipin for protein drug delivery. <i>Journal of Controlled Release</i> , 2004 , 96, 285-300	11.7	723
255	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
254	In vivo biocompatibility and degradability of a novel injectable-chitosan-based implant. <i>Biomaterials</i> , 2002 , 23, 181-91	15.6	454
253	In vitro evaluation of cytotoxicity of a naturally occurring cross-linking reagent for biological tissue fixation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999 , 10, 63-78	3.5	370
252	Physically crosslinked alginate/N,O-carboxymethyl chitosan hydrogels with calcium for oral delivery of protein drugs. <i>Biomaterials</i> , 2005 , 26, 2105-13	15.6	350
251	A review of the prospects for polymeric nanoparticle platforms in oral insulin delivery. <i>Biomaterials</i> , 2011 , 32, 9826-38	15.6	327
250	Recent advances in chitosan-based nanoparticles for oral delivery of macromolecules. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 865-79	18.5	307
249	Targeted nanoparticles for drug delivery through the blood-brain barrier for Alzheimer's disease. <i>Journal of Controlled Release</i> , 2005 , 108, 193-214	11.7	301
248	Preparation and characterization of nanoparticles shelled with chitosan for oral insulin delivery. <i>Biomacromolecules</i> , 2007 , 8, 146-52	6.9	291
247	Review of hydrodynamic principles for the cardiologist: applications to the study of blood flow and jets by imaging techniques. <i>Journal of the American College of Cardiology</i> , 1988 , 12, 1344-53	15.1	255
246	Drug release from chitosan-alginate complex beads reinforced by a naturally occurring cross-linking agent. <i>Carbohydrate Polymers</i> , 2002 , 48, 61-72	10.3	253
245	Stimuli-Responsive Materials for Controlled Release of Theranostic Agents. <i>Advanced Functional Materials</i> , 2014 , 24, 4206-4220	15.6	251
244	Feasibility study of a natural crosslinking reagent for biological tissue fixation. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 42, 560-7		249
243	Evaluation of gelatin hydrogel crosslinked with various crosslinking agents as bioadhesives: in vitro study. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 46, 520-30		239
242	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
241	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
240	Mechanism and consequence of chitosan-mediated reversible epithelial tight junction opening. <i>Biomaterials</i> , 2011 , 32, 6164-73	15.6	234

239	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
238	A thermoresponsive bubble-generating liposomal system for triggering localized extracellular drug delivery. <i>ACS Nano</i> , 2013 , 7, 438-46	16.7	220
237	Synthesis and characterization of biodegradable TPP/genipin co-crosslinked chitosan gel beads. <i>Polymer</i> , 2003 , 44, 6521-6530	3.9	205
236	Crosslinking of biological tissues using genipin and/or carbodiimide. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 64, 427-38		195
235	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
234	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
233	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	184
232	Effects of crosslinking degree of an acellular biological tissue on its tissue regeneration pattern. <i>Biomaterials</i> , 2004 , 25, 3541-52	15.6	183
231	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
230	Preparation of nanoparticles composed of chitosan/poly-gamma-glutamic acid and evaluation of their permeability through Caco-2 cells. <i>Biomacromolecules</i> , 2005 , 6, 1104-12	6.9	179
229	Stability of a biological tissue fixed with a naturally occurring crosslinking agent (genipin). <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 538-46		170
228	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
227	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 , 65, 271-82		165
226	Crosslinking structures of gelatin hydrogels crosslinked with genipin or a water-soluble carbodiimide. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 4017-4026	2.9	164
225	Paclitaxel-loaded poly(gamma-glutamic acid)-poly(lactide) nanoparticles as a targeted drug delivery system for the treatment of liver cancer. <i>Biomaterials</i> , 2006 , 27, 2051-9	15.6	162
224	Characterization of tea catechins-loaded nanoparticles prepared from chitosan and an edible polypeptide. <i>Food Hydrocolloids</i> , 2013 , 30, 33-41	10.6	155
223	Protease inhibition and absorption enhancement by functional nanoparticles for effective oral insulin delivery. <i>Biomaterials</i> , 2012 , 33, 2801-11	15.6	154
222	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

221	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
220	In vitro evaluation of a chitosan membrane cross-linked with genipin. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001 , 12, 835-50	3.5	152
219	Biocompatibility study of a biological tissue fixed with a naturally occurring crosslinking reagent. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 42, 568-76		151
218	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
217	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
216	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
215	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
214	Heparin-functionalized chitosan-alginate scaffolds for controlled release of growth factor. <i>International Journal of Pharmaceutics</i> , 2009 , 376, 69-75	6.5	140
213	In vivo evaluation of cellular and acellular bovine pericardium fixed with a naturally occurring crosslinking agent (genipin). <i>Biomaterials</i> , 2002 , 23, 2447-57	15.6	139
212	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
211	Crosslinking characteristics and mechanical properties of a bovine pericardium fixed with a naturally occurring crosslinking agent. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 47, 116-26		132
210	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		131
209	Novel method using a temperature-sensitive polymer (methylcellulose) to thermally gel aqueous alginate as a pH-sensitive hydrogel. <i>Biomacromolecules</i> , 2004 , 5, 1917-25	6.9	130
208	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
207	Rapidly self-expandable polymeric stents with a shape-memory property. <i>Biomacromolecules</i> , 2007 , 8, 2774-80	6.9	124
206	Oral delivery of peptide drugs using nanoparticles self-assembled by poly(γ -glutamic acid) and a chitosan derivative functionalized by trimethylation. <i>Bioconjugate Chemistry</i> , 2008 , 19, 1248-55	6.3	122
205	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
204	Bioengineered cardiac patch constructed from multilayered mesenchymal stem cells for myocardial repair. <i>Biomaterials</i> , 2008 , 29, 3547-56	15.6	120

203	A novel drug-eluting stent spray-coated with multi-layers of collagen and sirolimus. <i>Journal of Controlled Release</i> , 2005 , 108, 178-89	11.7	119
202	Shell-crosslinked Pluronic L121 micelles as a drug delivery vehicle. <i>Biomaterials</i> , 2007 , 28, 725-34	15.6	117
201	Heparinized chitosan/poly(γ -glutamic acid) nanoparticles for multi-functional delivery of fibroblast growth factor and heparin. <i>Biomaterials</i> , 2010 , 31, 9320-32	15.6	114
200	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, 481-95	3.5	113
199	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
198	Effects of chitosan-nanoparticle-mediated tight junction opening on the oral absorption of endotoxins. <i>Biomaterials</i> , 2011 , 32, 8712-21	15.6	112
197	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
196	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
195	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
194	Novel living cell sheet harvest system composed of thermoreversible methylcellulose hydrogels. <i>Biomacromolecules</i> , 2006 , 7, 736-43	6.9	103
193	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
192	Preparation of nanoparticles composed of poly(γ -glutamic acid)-poly(lactide) block copolymers and evaluation of their uptake by HepG2 cells. <i>Journal of Controlled Release</i> , 2005 , 105, 213-25	11.7	100
191	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
190	Turbulent shear stress measurements in the vicinity of aortic heart valve prostheses. <i>Journal of Biomechanics</i> , 1986 , 19, 433-42	2.9	99
189	Multidrug release based on microneedle arrays filled with pH-responsive PLGA hollow microspheres. <i>Biomaterials</i> , 2012 , 33, 5156-65	15.6	97
188	Enhancing the stiffness of electrospun nanofiber scaffolds with a controlled surface coating and mineralization. <i>Langmuir</i> , 2011 , 27, 9088-93	4	97
187	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
186	Multifunctional core-shell polymeric nanoparticles for transdermal DNA delivery and epidermal Langerhans cells tracking. <i>Biomaterials</i> , 2010 , 31, 2425-34	15.6	96

185	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
184	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
183	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		89
182	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
181	Polypyrrole-chitosan conductive biomaterial synchronizes cardiomyocyte contraction and improves myocardial electrical impulse propagation. <i>Theranostics</i> , 2018 , 8, 2752-2764	12.1	87
180	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
179	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
178	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
177	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
176	The characteristics, biodistribution, magnetic resonance imaging and biodegradability of superparamagnetic core-shell nanoparticles. <i>Biomaterials</i> , 2010 , 31, 1316-24	15.6	81
175	Mechanical properties of a porcine aortic valve fixed with a naturally occurring crosslinking agent. <i>Biomaterials</i> , 1999 , 20, 1759-72	15.6	81
174	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
173	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	2.9	76
172	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
171	Paclitaxel-loaded poly(γ -glutamic acid)-poly(lactide) nanoparticles as a targeted drug delivery system against cultured HepG2 cells. <i>Bioconjugate Chemistry</i> , 2006 , 17, 291-9	6.3	74
170	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
169	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
168	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

167	Intracellularly monitoring/imaging the release of doxorubicin from pH-responsive nanoparticles using Förster resonance energy transfer. <i>Biomaterials</i> , 2011 , 32, 2586-92	15.6	71
166	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
165	Novel nanoparticles for oral insulin delivery via the paracellular pathway. <i>Nanotechnology</i> , 2007 , 18, 1051-2	10.2	71
164	A natural compound (ginsenoside Re) isolated from Panax ginseng as a novel angiogenic agent for tissue regeneration. <i>Pharmaceutical Research</i> , 2005 , 22, 636-46	4.5	71
163	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
162	Cross-linking characteristics of biological tissues fixed with monofunctional or multifunctional epoxy compounds. <i>Biomaterials</i> , 1996 , 17, 1405-10	15.6	68
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	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
159	Gelatin-derived bioadhesives for closing skin wounds: an in vivo study. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999 , 10, 751-71	3.5	64
158	Elucidating the signaling mechanism of an epithelial tight-junction opening induced by chitosan. <i>Biomaterials</i> , 2012 , 33, 6254-63	15.6	62
157	The characteristics and in vivo suppression of neointimal formation with sirolimus-eluting polymeric stents. <i>Biomaterials</i> , 2009 , 30, 79-88	15.6	62
156	Effects of the nanostructure of dendrimer/DNA complexes on their endocytosis and gene expression. <i>Biomaterials</i> , 2010 , 31, 5660-70	15.6	61
155	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
154	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, 523-33	15.6	61
153	In vitro hemodynamic characteristics of tissue bioprotheses in the aortic position. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1986 , 92, 198-209	1.5	61
152	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
151	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
150	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

149	Uniform beads with controllable pore sizes for biomedical applications. <i>Small</i> , 2010 , 6, 1492-8	11	56
148	Injectable PLGA porous beads cellularized by hAFSCs for cellular cardiomyoplasty. <i>Biomaterials</i> , 2012 , 33, 4069-77	15.6	54
147	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
146	Crosslinking characteristics of an epoxy-fixed porcine tendon: effects of pH, temperature, and fixative concentration. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 31, 511-8		54
145	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
144	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
143	In vitro surface characterization of a biological patch fixed with a naturally occurring crosslinking agent. <i>Biomaterials</i> , 2000 , 21, 1353-62	15.6	52
142	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
141	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, 3290-6	5.7	51
140	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
139	Synthesis of a novel glycoconjugated chitosan and preparation of its derived nanoparticles for targeting HepG2 cells. <i>Biomacromolecules</i> , 2007 , 8, 892-8	6.9	50
138	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
137	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
136	A dual-emission Förster resonance energy transfer nanoprobe for sensing/imaging pH changes in the biological environment. <i>ACS Nano</i> , 2010 , 4, 7467-74	16.7	48
135	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	11.7	48
134	A genetically-encoded KillerRed protein as an intrinsically generated photosensitizer for photodynamic therapy. <i>Biomaterials</i> , 2014 , 35, 500-8	15.6	47
133	Highly cited research articles in Journal of Controlled Release: Commentaries and perspectives by authors. <i>Journal of Controlled Release</i> , 2014 , 190, 29-74	11.7	47
132	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, 5409-19	15.6	45

131	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
130	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
129	Construction and characterization of fragmented mesenchymal-stem-cell sheets for intramuscular injection. <i>Biomaterials</i> , 2007 , 28, 4643-51	15.6	44
128	Construction of varying porous structures in acellular bovine pericardium as a tissue-engineering extracellular matrix. <i>Biomaterials</i> , 2005 , 26, 1905-13	15.6	44
127	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
126	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
125	Pore-filling nanoporous templates from degradable block copolymers for nanoscale drug delivery. <i>ACS Nano</i> , 2009 , 3, 2660-6	16.7	41
124	Novel method of forming human embryoid bodies in a polystyrene dish surface-coated with a temperature-responsive methylcellulose hydrogel. <i>Biomacromolecules</i> , 2007 , 8, 2746-52	6.9	40
123	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 , 76, 1-15	5.4	40
122	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, 1237-47	2.9	40
121	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, 168-76	6.5	39
120	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
119	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, 1208-18	1.5	38
118	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
117	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
116	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
115	Cell-free xenogenic vascular grafts fixed with glutaraldehyde or genipin: in vitro and in vivo studies. <i>Journal of Biotechnology</i> , 2005 , 120, 207-19	3.7	36
114	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	15.6	35

113	A novel method for the synthesis of the PEG-crosslinked chitosan with a pH-independent swelling behavior. <i>Macromolecular Bioscience</i> , 2005 , 5, 925-8	5.5	34
112	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
111	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
110	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
109	pH-sensitive behavior of two-component hydrogels composed of N,O-carboxymethyl chitosan and alginate. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005 , 16, 1333-45	3.5	33
108	Acellular biological tissues containing inherent glycosaminoglycans for loading basic fibroblast growth factor promote angiogenesis and tissue regeneration. <i>Tissue Engineering</i> , 2006 , 12, 2499-508		33
107	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
106	Crosslinking characteristics of porcine tendons: effects of fixation with glutaraldehyde or epoxy. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 30, 361-7		31
105	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
104	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
103	Rapidly in situ forming hydrophobically-modified chitosan hydrogels via pH-responsive nanostructure transformation. <i>Soft Matter</i> , 2009 , 5, 962	3.6	30
102	Degradation potential of biological tissues fixed with various fixatives: an in vitro study. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 35, 147-55		30
101	A natural compound (reuterin) produced by <i>Lactobacillus reuteri</i> for biological-tissue fixation. <i>Biomaterials</i> , 2003 , 24, 1335-47	15.6	30
100	Influence of abdominal aortic curvature and resting versus exercise conditions on velocity fields in the normal abdominal aortic bifurcation. <i>Journal of Biomechanical Engineering</i> , 1994 , 116, 347-54	2.1	30
99	An In Situ Depot for Continuous Evolution of Gaseous H Mediated by a Magnesium Passivation/Activation Cycle for Treating Osteoarthritis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9875-9879	16.4	30
98	Recent advances in CO bubble-generating carrier systems for localized controlled release. <i>Biomaterials</i> , 2017 , 133, 154-164	15.6	29
97	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
96	Photosynthesis-inspired H ₂ generation using a chlorophyll-loaded liposomal nanoplatfom to detect and scavenge excess ROS. <i>Nature Communications</i> , 2020 , 11, 534	17.4	29

95	CD44-specific nanoparticles for redox-triggered reactive oxygen species production and doxorubicin release. <i>Acta Biomaterialia</i> , 2016 , 35, 280-92	10.8	29
94	Loading of a novel angiogenic agent, ginsenoside Rg1 in an acellular biological tissue for tissue regeneration. <i>Tissue Engineering</i> , 2005 , 11, 835-46		29
93	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
92	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
91	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
90	Columnar mesophases of the complexes of DNA with low-generation poly(amido amine) dendrimers. <i>Biomacromolecules</i> , 2009 , 10, 773-83	6.9	28
89	Tissue regeneration observed in a basic fibroblast growth factor-loaded porous acellular bovine pericardium populated with mesenchymal stem cells. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007 , 134, 65-73, 73.e1-4	1.5	28
88	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
87	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
86	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
85	Core-shell cell bodies composed of human cbMSCs and HUVECs for functional vasculogenesis. <i>Biomaterials</i> , 2011 , 32, 8446-55	15.6	26
84	Acellular bovine pericardia with distinct porous structures fixed with genipin as an extracellular matrix. <i>Tissue Engineering</i> , 2004 , 10, 881-92		25
83	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	9.6	25
82	Chitosan: Its Applications in Drug-Eluting Devices. <i>Advances in Polymer Science</i> , 2011 , 185-230	1.3	24
81	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
80	Tissue regeneration observed in a porous acellular bovine pericardium used to repair a myocardial defect in the right ventricle of a rat model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2005 , 130, 705-11	1.5	24
79	Self-assembling bubble carriers for oral protein delivery. <i>Biomaterials</i> , 2015 , 64, 115-24	15.6	23
78	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

77	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
76	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
75	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
74	Heparinization on pericardial substitutes can reduce adhesion and epicardial inflammation in the dog. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1998 , 115, 1111-20	1.5	22
73	Feasibility study using a natural compound (reuterin) produced by <i>Lactobacillus reuteri</i> in sterilizing and crosslinking biological tissues. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 61, 360-9		22
72	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
71	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
70	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
69	The effect of galectin 1 on 3T3 cell proliferation on chitosan membranes. <i>Biomaterials</i> , 2004 , 25, 3603-11	15.6	21
68	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
67	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
66	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
65	Peritoneal regeneration induced by an acellular bovine pericardial patch in the repair of abdominal wall defects. <i>Journal of Surgical Research</i> , 2005 , 127, 85-92	2.5	19
64	Tissue regeneration patterns in acellular bovine pericardial patches implanted in a canine model as a vascular patch. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 69, 323-33		19
63	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
62	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
61	Oral Nonviral Gene Delivery for Chronic Protein Replacement Therapy. <i>Advanced Science</i> , 2018 , 5, 1701079	19.6	17
60	Dendrimer-induced DNA bending. <i>Soft Matter</i> , 2011 , 7, 61-63	3.6	17

59	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
58	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
57	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
56	Effects of various chemical sterilization methods on the crosslinking and enzymatic degradation characteristics of an epoxy-fixed biological tissue. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 37, 376-83		14
55	Mesothelium regeneration on acellular bovine pericardia loaded with an angiogenic agent (ginsenoside Rg1) successfully reduces postsurgical pericardial adhesions. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2006 , 132, 867-74	1.5	14
54	Synthesis and characterization of a novel glycoconjugated macromolecule. <i>Polymer</i> , 2006 , 47, 4348-4358	3.9	14
53	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
52	Disulfide bond-conjugated dual PEGylated siRNAs for prolonged multiple gene silencing. <i>Biomaterials</i> , 2013 , 34, 6930-7	15.6	13
51	Hemoglobin polymerized with a naturally occurring crosslinking agent as a blood substitute: in vitro and in vivo studies. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2004 , 32, 243-62		13
50	Anti-microbial activity and film characterization of thiazolidinone derivatives of chitosan. <i>Macromolecular Bioscience</i> , 2005 , 5, 490-3	5.5	13
49	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
48	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
47	Evaluation of an epoxy-fixed biological patch with ionically bound heparin as a pericardial substitute. <i>Biomaterials</i> , 1996 , 17, 1693-701	15.6	12
46	Physical properties of a porcine internal thoracic artery fixed with an epoxy compound. <i>Biomaterials</i> , 1996 , 17, 2357-65	15.6	12
45	Advances in prosthetic heart valves: fluid mechanics of aortic valve designs. <i>Journal of Biomaterials Applications</i> , 1988 , 2, 579-614	2.9	12
44	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
43	Quantitative Approaches to Color Doppler Flow Mapping of Intracardiac Blood Flow: A Review of In Vitro Methods. <i>Echocardiography</i> , 1989 , 6, 371-383	1.5	11
42	Bioinspired Engineering of a Bacterium-Like Metal-Organic Framework for Cancer Immunotherapy. <i>Advanced Functional Materials</i> , 2020 , 30, 2003764	15.6	11

41	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
40	Biomimetic Engineering of a Scavenger-Free Nitric Oxide-Generating/Delivering System to Enhance Radiation Therapy. <i>Small</i> , 2020 , 16, e2000655	11	10
39	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
38	Fixation of various porcine arteries with an epoxy compound. <i>Artificial Organs</i> , 1997 , 21, 50-8	2.6	10
37	A novel method for the preparation of nanoaggregates of methoxy polyethyleneglycol linked chitosan. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 2867-73	1.3	10
36	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
35	XTT-colorimetric assay as a marker of viability in cryoprocessed cardiac valve. <i>Journal of Molecular and Cellular Cardiology</i> , 1997 , 29, 1189-94	5.8	9
34	A natural compound (reuterin) produced by <i>Lactobacillus reuteri</i> for hemoglobin polymerization as a blood substitute. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 34-42	4.9	9
33	Biocompatibility study of biological tissues fixed by a natural compound (reuterin) produced by <i>Lactobacillus reuteri</i> . <i>Biomaterials</i> , 2002 , 23, 3203-14	15.6	9
32	Studies on epoxy compound fixation. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 33, 177-86		9
31	A Noninvasive Gut-to-Brain Oral Drug Delivery System for Treating Brain Tumors. <i>Advanced Materials</i> , 2021 , 33, e2100701	24	9
30	Axial flow velocity patterns in a pulmonary artery model with varying degrees of valvular pulmonic stenosis: pulsatile in vitro studies. <i>Journal of Biomechanics</i> , 1990 , 23, 563-78	2.9	8
29	Natural antimicrobial agent (reuterin) produced by <i>Lactobacillus reuteri</i> for sanitization of biological tissues inoculated with <i>Pseudomonas aeruginosa</i> . <i>Biotechnology and Bioengineering</i> , 2003 , 84, 233-9	4.9	6
28	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
27	Can cardiac catheterization accurately assess the severity of aortic stenosis? An in vitro pulsatile flow study. <i>Annals of Biomedical Engineering</i> , 1997 , 25, 896-905	4.7	5
26	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
25	Synthesis and characterization of a novel chitosan-based network prepared using naturally occurring crosslinker 2000 , 38, 2804		5
24	Hemodynamic assessment of carbomedics bileaflet heart valves by ultrasound: studies in the aortic and mitral positions. <i>Ultrasound in Medicine and Biology</i> , 1996 , 22, 421-30	3.5	4

23	Injectable conductive hydrogel can reduce pacing threshold and enhance efficacy of cardiac pacemaker. <i>Theranostics</i> , 2021 , 11, 3948-3960	12.1	4
22	Evaluation of gelatin hydrogel crosslinked with various crosslinking agents as bioadhesives: In vitro study 1999 , 46, 520		4
21	Pulmonary artery hemodynamics with varying degrees of valvular stenosis: an in vitro study. <i>Journal of Biomechanics</i> , 1998 , 31, 1153-61	2.9	3
20	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
19	Evaluation of gelatin hydrogel crosslinked with various crosslinking agents as bioadhesives: In vitro study 1999 , 46, 520		3
18	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
17	Fabrication of Novel Wound Dressing. <i>Advanced Materials Research</i> , 2010 , 123-125, 979-982	0.5	2
16	Aglycone geniposidic acid, a naturally occurring crosslinking agent, and its application for the fixation of collagenous tissues. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 667-73	5.4	2
15	Engineering Nano- and Microparticles as Oral Delivery Vehicles to Promote Intestinal Lymphatic Drug Transport. <i>Advanced Materials</i> , 2021 , e2104139	24	2
14	Synthesis and characterization of a novel chitosan-based network prepared using naturally occurring crosslinker 2000 , 38, 2804		2
13	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
12	In vitro study of enzymatic degradation of biological tissues fixed by glutaraldehyde or epoxy compound. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1997 , 8, 587-600	3.5	1
11	Biological materials fixed with an epoxy compound: comparison of the effects with or without ionically bound heparin. <i>Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials</i> , 1995 , 6, 185-90		1
10	Feasibility study of a natural crosslinking reagent for biological tissue fixation 1998 , 42, 560		1
9	In vitro evaluation of the genotoxicity of a naturally occurring crosslinking agent (genipin) for biologic tissue fixation 2000 , 52, 58		1
8	Stability of a biological tissue fixed with a naturally occurring crosslinking agent (genipin) 2001 , 55, 538		1
7	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
6	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	

- 5 Response to Comment on [A Liposomal System Capable of Generating CO₂ Bubbles to Induce Transient Cavitation, Lysosomal Rupturing and Cell Necrosis](#) *Angewandte Chemie*, **2017**, 129, 11850-11852^{3,6}
- 4 A naturally occurring crosslinking agent extracted from gardenia fruit and its applications in tissue engineering **2003**, 437-445
- 3 Acellular Biological Tissues Containing Inherent Glycosaminoglycans for Loading Basic Fibroblast Growth Factor Promote Angiogenesis and Tissue Regeneration. *Tissue Engineering*, **2006**, 060913044658005
- 2 Acellular Biological Tissues Containing Inherent Glycosaminoglycans for Loading Basic Fibroblast Growth Factor Promote Angiogenesis and Tissue Regeneration. *Tissue Engineering*, **2006**, 060804083331001
- 1 Myocardial Tissue Regeneration Observed in Stem-Cell Seeded Bioengineered Scaffolds **2008**, 203-221