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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.

266 papers	10,519 citations	56 h-index	87 g-index
272 ext. papers	12,020 ext. citations	6.7 avg, IF	6.96 L-index

#	Paper	IF	Citations
266	Cytotoxicity and immunological response of gold and silver nanoparticles of different sizes. <i>Small</i> , 2009 , 5, 1553-61	11	452
265	Bacterial cellulose and bacterial cellulose-chitosan membranes for wound dressing applications. <i>Carbohydrate Polymers</i> , 2013 , 94, 603-11	10.3	411
264	An Injectable, Self-Healing Hydrogel to Repair the Central Nervous System. <i>Advanced Materials</i> , 2015 , 27, 3518-24	24	366
263	3D bioprinting of neural stem cell-laden thermoresponsive biodegradable polyurethane hydrogel and potential in central nervous system repair. <i>Biomaterials</i> , 2015 , 71, 48-57	15.6	297
262	Transplantation of bone marrow stromal cells for peripheral nerve repair. <i>Experimental Neurology</i> , 2007 , 204, 443-53	5.7	224
261	Water-based polyurethane 3D printed scaffolds with controlled release function for customized cartilage tissue engineering. <i>Biomaterials</i> , 2016 , 83, 156-68	15.6	166
260	Spheroid formation of mesenchymal stem cells on chitosan and chitosan-hyaluronan membranes. <i>Biomaterials</i> , 2011 , 32, 6929-45	15.6	166
259	Preparation of networks of gelatin and genipin as degradable biomaterials. <i>Materials Chemistry and Physics</i> , 2004 , 83, 204-208	4.4	151
258	The biocompatibility and antibacterial properties of waterborne polyurethane-silver nanocomposites. <i>Biomaterials</i> , 2010 , 31, 6796-808	15.6	148
257	Synthesis and 3D printing of biodegradable polyurethane elastomer by a water-based process for cartilage tissue engineering applications. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1578-87	10.1	138
256	Review: Polymeric-Based 3D Printing for Tissue Engineering. <i>Journal of Medical and Biological Engineering</i> , 2015 , 35, 285-292	2.2	131
255	Preparation of controlled release ophthalmic drops, for glaucoma therapy using thermosensitive poly-N-isopropylacrylamide. <i>Biomaterials</i> , 2002 , 23, 457-62	15.6	128
254	Evaluation of chitosan-alginate-hyaluronate complexes modified by an RGD-containing protein as tissue-engineering scaffolds for cartilage regeneration. <i>Artificial Organs</i> , 2004 , 28, 693-703	2.6	124
253	Hydrogels Based on Schiff Base Linkages for Biomedical Applications. <i>Molecules</i> , 2019 , 24,	4.8	118
252	A graphene-polyurethane composite hydrogel as a potential bioink for 3D bioprinting and differentiation of neural stem cells. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8854-8864	7.3	100
251	Low-energy laser irradiation increases endothelial cell proliferation, migration, and eNOS gene expression possibly via PI3K signal pathway. <i>Lasers in Surgery and Medicine</i> , 2008 , 40, 46-54	3.6	95
250	Synthesis and Biomedical Applications of Self-healing Hydrogels. <i>Frontiers in Chemistry</i> , 2018 , 6, 449	5	93

249	A novel biodegradable self-healing hydrogel to induce blood capillary formation. <i>NPG Asia Materials</i> , 2017 , 9, e363-e363	10.3	89
248	Evaluation of chondrocyte growth in the highly porous scaffolds made by fused deposition manufacturing (FDM) filled with type II collagen. <i>Biomedical Microdevices</i> , 2009 , 11, 615-24	3.7	89
247	Enhanced thermal and mechanical properties and biostability of polyurethane containing silver nanoparticles. <i>Polymer Degradation and Stability</i> , 2006 , 91, 1017-1024	4.7	89
246	Poly(vinyl alcohol) Nanocomposites Reinforced with Bamboo Charcoal Nanoparticles: Mineralization Behavior and Characterization. <i>Materials</i> , 2015 , 8, 4895-4911	3.5	87
245	Antibacterial properties of silver nanoparticles in three different sizes and their nanocomposites with a new waterborne polyurethane. <i>International Journal of Nanomedicine</i> , 2010 , 5, 1017-28	7.3	84
244	Sciatic nerve repair by microgrooved nerve conduits made of chitosan-gold nanocomposites. <i>World Neurosurgery</i> , 2008 , 70 Suppl 1, S1:9-18		81
243	Evaluation of biodegradable polyesters modified by type II collagen and Arg-Gly-Asp as tissue engineering scaffolding materials for cartilage regeneration. <i>Artificial Organs</i> , 2006 , 30, 42-55	2.6	81
242	Viscoelastic behaviour at the thermal sol-gel transition of gelatin. <i>Polymer</i> , 1993 , 34, 2602-2608	3.9	81
241	Biocompatibility and biodegradation of a bone composite containing tricalcium phosphate and genipin crosslinked gelatin. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 69, 709-17		79
240	Preparation, Characterization, and Mechanism for Biodegradable and Biocompatible Polyurethane Shape Memory Elastomers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5419-5429	9.5	78
239	The effect of high outflow permeability in asymmetric poly(dl-lactic acid-co-glycolic acid) conduits for peripheral nerve regeneration. <i>Biomaterials</i> , 2006 , 27, 1035-42	15.6	78
238	Biodegradable Water-Based Polyurethane Shape Memory Elastomers for Bone Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1397-1406	5.5	76
237	Chitosan as Scaffold Materials: Effects of Molecular Weight and Degree of Deacetylation. <i>Journal of Polymer Research</i> , 2004 , 11, 141-147	2.7	76
236	Characterization of biodegradable polyurethane nanoparticles and thermally induced self-assembly in water dispersion. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5685-94	9.5	72
235	Evaluation of the antibacterial activity and biocompatibility for silver nanoparticles immobilized on nano silicate platelets. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 433-43	9.5	72
234	Oriented Schwann cell growth on microgrooved surfaces. <i>Biotechnology and Bioengineering</i> , 2005 , 92, 579-88	4.9	71
233	Novel chitosan/ellulose nanofiber self-healing hydrogels to correlate self-healing properties of hydrogels with neural regeneration effects. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	69
232	Substrate-dependent Wnt signaling in MSC differentiation within biomaterial-derived 3D spheroids. <i>Biomaterials</i> , 2013 , 34, 4725-38	15.6	69

231	3D bioprinting: A new insight into the therapeutic strategy of neural tissue regeneration. <i>Organogenesis</i> , 2015 , 11, 153-8	1.7	69
230	Peripheral nerve regeneration using a microporous polylactic acid asymmetric conduit in a rabbit long-gap sciatic nerve transection model. <i>Biomaterials</i> , 2011 , 32, 3764-75	15.6	67
229	Composites of waterborne polyurethane and cellulose nanofibers for 3D printing and bioapplications. <i>Carbohydrate Polymers</i> , 2019 , 212, 75-88	10.3	66
228	Substrate-dependent gene regulation of self-assembled human MSC spheroids on chitosan membranes. <i>BMC Genomics</i> , 2014 , 15, 10	4.5	66
227	Water-based synthesis and processing of novel biodegradable elastomers for medical applications. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5083-5092	7.3	66
226	Characterization of chitosan-gelatin scaffolds for dermal tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013 , 7, 20-31	4.4	66
225	Biocompatibility of poly(ether)urethane-gold nanocomposites. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 759-70	5.4	66
224	Accumulation and Toxicity of Superparamagnetic Iron Oxide Nanoparticles in Cells and Experimental Animals. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	66
223	Glucose-sensitive self-healing hydrogel as sacrificial materials to fabricate vascularized constructs. <i>Biomaterials</i> , 2017 , 133, 20-28	15.6	65
222	The calcium-dependent regulation of spheroid formation and cardiomyogenic differentiation for MSCs on chitosan membranes. <i>Biomaterials</i> , 2012 , 33, 8943-54	15.6	65
221	Mesenchymal stem cells from a hypoxic culture improve and engraft Achilles tendon repair. <i>American Journal of Sports Medicine</i> , 2013 , 41, 1117-25	6.8	65
220	Biocompatibility of poly(epsilon-caprolactone)/poly(ethylene glycol) diblock copolymers with nanophase separation. <i>Biomaterials</i> , 2004 , 25, 5593-601	15.6	64
219	Biocompatibility and antimicrobial evaluation of montmorillonite/chitosan nanocomposites. <i>Applied Clay Science</i> , 2012 , 56, 53-62	5.2	62
218	The cellular responses and antibacterial activities of silver nanoparticles stabilized by different polymers. <i>Nanotechnology</i> , 2012 , 23, 065102	3.4	61
217	Enhanced Thermal and Mechanical Properties in Polyurethane/Au Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2004 , 289, 1096-1101	3.9	60
216	Water-Soluble Fullerene Derivatives as Brain Medicine: Surface Chemistry Determines If They Are Neuroprotective and Antitumor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11482-11492	9.5	59
215	Substrate-mediated nanoparticle/gene delivery to MSC spheroids and their applications in peripheral nerve regeneration. <i>Biomaterials</i> , 2014 , 35, 2630-41	15.6	59
214	Characterization and biocompatibility of chitosan nanocomposites. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 85, 198-206	6	59

213	The behavior of endothelial cells on polyurethane nanocomposites and the associated signaling pathways. <i>Biomaterials</i> , 2009 , 30, 1502-11	15.6	59
212	A novel approach to align adult neural stem cells on micropatterned conduits for peripheral nerve regeneration: a feasibility study. <i>Artificial Organs</i> , 2009 , 33, 26-35	2.6	58
211	Calvarial bone response to a tricalcium phosphate-genipin crosslinked gelatin composite. <i>Biomaterials</i> , 2005 , 26, 3065-74	15.6	57
210	In vitro and in vivo evaluation of chitosan-gelatin scaffolds for cartilage tissue engineering. <i>Materials Science and Engineering C</i> , 2013 , 33, 2855-63	8.3	56
209	Sciatic nerve regeneration by cocultured Schwann cells and stem cells on microporous nerve conduits. <i>Cell Transplantation</i> , 2013 , 22, 2029-39	4	55
208	The promotion of chondrogenesis in adipose-derived adult stem cells by an RGD-chimeric protein in 3D alginate culture. <i>Biomaterials</i> , 2009 , 30, 6265-75	15.6	55
207	Preparation and characterization of a biodegradable polyurethane hydrogel and the hybrid gel with soy protein for 3D cell-laden bioprinting. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6694-6705	7.3	55
206	Synthesis and Characterization of Dual Stimuli-Sensitive Biodegradable Polyurethane Soft Hydrogels for 3D Cell-Laden Bioprinting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29273-29287	9.5	54
205	Acquisition of epithelial-mesenchymal transition and cancer stem-like phenotypes within chitosan-hyaluronan membrane-derived 3D tumor spheroids. <i>Biomaterials</i> , 2014 , 35, 10070-9	15.6	54
204	Synthesis of Thermoresponsive Amphiphilic Polyurethane Gel as a New Cell Printing Material near Body Temperature. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27613-23	9.5	53
203	Sciatic nerve regeneration by microporous nerve conduits seeded with glial cell line-derived neurotrophic factor or brain-derived neurotrophic factor gene transfected neural stem cells. <i>Artificial Organs</i> , 2011 , 35, 363-72	2.6	52
202	Nylon textiles grafted with chitosan by open air plasma and their antimicrobial effect. <i>Fibers and Polymers</i> , 2009 , 10, 53-59	2	52
201	Evaluation of the growth of chondrocytes and osteoblasts seeded into precision scaffolds fabricated by fused deposition manufacturing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 80, 519-27	3.5	52
200	Isolation of the multipotent MSC subpopulation from human gingival fibroblasts by culturing on chitosan membranes. <i>Biomaterials</i> , 2012 , 33, 2642-55	15.6	51
199	Nanoparticle uptake and gene transfer efficiency for MSCs on chitosan and chitosan-hyaluronan substrates. <i>Biomaterials</i> , 2012 , 33, 3639-50	15.6	51
198	Gold nanoparticles induce surface morphological transformation in polyurethane and affect the cellular response. <i>Biomacromolecules</i> , 2008 , 9, 241-8	6.9	51
197	Self-assembled adult adipose-derived stem cell spheroids combined with biomaterials promote wound healing in a rat skin repair model. <i>Wound Repair and Regeneration</i> , 2015 , 23, 57-64	3.6	50
196	Characterization, antimicrobial activities, and biocompatibility of organically modified clays and their nanocomposites with polyurethane. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 338-50	9.5	50

195	Evaluation of type II collagen scaffolds reinforced by poly(epsilon-caprolactone) as tissue-engineered trachea. <i>Tissue Engineering - Part C: Methods</i> , 2008 , 14, 69-77	2.9	50
194	Microvessel scaffold with circular microchannels by photoresist melting. <i>Biomedical Microdevices</i> , 2007 , 9, 657-63	3.7	50
193	The effect of elastic biodegradable polyurethane electrospun nanofibers on the differentiation of mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 122, 414-422	6	49
192	Evaluation of biodegradable elastic scaffolds made of anionic polyurethane for cartilage tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 125, 34-44	6	47
191	The effects of low-intensity ultrasound on peripheral nerve regeneration in poly(DL-lactic acid-co-glycolic acid) conduits seeded with Schwann cells. <i>Ultrasound in Medicine and Biology</i> , 2004 , 30, 1079-84	3.5	47
190	Fabrication of the microgrooved/microporous polylactide substrates as peripheral nerve conduits and in vivo evaluation. <i>Tissue Engineering - Part A</i> , 2009 , 15, 1381-90	3.9	46
189	In vitro evaluation of degradation and cytotoxicity of a novel composite as a bone substitute. <i>Journal of Biomedical Materials Research - Part A</i> , 2003 , 67, 1163-9	5.4	46
188	Biodegradable polymer scaffolds. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7493-7505	7.3	45
187	Cell orientation and regulation of cell-cell communication in human mesenchymal stem cells on different patterns of electrospun fibers. <i>Biomedical Materials (Bristol)</i> , 2013 , 8, 055002	3.5	45
186	A scaffold-bioreactor system for a tissue-engineered trachea. <i>Biomaterials</i> , 2009 , 30, 4117-26	15.6	45
185	Transplantation of endothelial progenitor cells as therapeutics for cardiovascular diseases. <i>Cell Transplantation</i> , 2009 , 18, 1003-12	4	45
184	Fabrication and evaluation of microgrooved polymers as peripheral nerve conduits. <i>Biomedical Microdevices</i> , 2007 , 9, 665-74	3.7	45
183	Materials Nanoarchitectonics as Cell Regulators. <i>ChemNanoMat</i> , 2019 , 5, 692-702	3.5	44
182	Chondrogenesis from human placenta-derived mesenchymal stem cells in three-dimensional scaffolds for cartilage tissue engineering. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1549-60	3.9	44
181	The static magnetic field accelerates the osteogenic differentiation and mineralization of dental pulp cells. <i>Cytotechnology</i> , 2010 , 62, 143-55	2.2	44
180	Modulation of Macrophage Phenotype by Biodegradable Polyurethane Nanoparticles: Possible Relation between Macrophage Polarization and Immune Response of Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19436-19448	9.5	42
179	Fabrication of bioactive conduits containing the fibroblast growth factor 1 and neural stem cells for peripheral nerve regeneration across a 15 mm critical gap. <i>Biofabrication</i> , 2013 , 5, 035010	10.5	41
178	Biological performances of poly(ether)urethane-silver nanocomposites. <i>Nanotechnology</i> , 2007 , 18, 475103	14	41

177	Biocompatibility and biostability of a series of poly(carbonate)urethanes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004 , 36, 1-12	6	41
176	The effect of dynamic culture conditions on endothelial cell seeding and retention on small diameter polyurethane vascular grafts. <i>Medical Engineering and Physics</i> , 2005 , 27, 267-72	2.4	41
175	Low-intensity-ultrasound-accelerated nerve regeneration using cell-seeded poly(D,L-lactic acid-co-glycolic acid) conduits: an in vivo and in vitro study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005 , 75, 99-107	3.5	40
174	Double-Network Polyurethane-Gelatin Hydrogel with Tunable Modulus for High-Resolution 3D Bioprinting. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32746-32757	9.5	39
173	Fabrication of precision scaffolds using liquid-frozen deposition manufacturing for cartilage tissue engineering. <i>Tissue Engineering - Part A</i> , 2009 , 15, 965-75	3.9	38
172	Cell reprogramming by 3D bioprinting of human fibroblasts in polyurethane hydrogel for fabrication of neural-like constructs. <i>Acta Biomaterialia</i> , 2018 , 70, 57-70	10.8	37
171	Substrate-dependent modulation of 3D spheroid morphology self-assembled in mesenchymal stem cell-endothelial progenitor cell coculture. <i>Biomaterials</i> , 2014 , 35, 7295-307	15.6	37
170	In vitro study of a novel nanogold-collagen composite to enhance the mesenchymal stem cell behavior for vascular regeneration. <i>PLoS ONE</i> , 2014 , 9, e104019	3.7	37
169	Improved retention of endothelial cells seeded on polyurethane small-diameter vascular grafts modified by a recombinant RGD-containing protein. <i>Artificial Organs</i> , 2003 , 27, 1068-78	2.6	37
168	Evaluation of cellular affinity and compatibility to biodegradable polyesters and Type-II collagen-modified scaffolds using immortalized rat chondrocytes. <i>Artificial Organs</i> , 2002 , 26, 647-58	2.6	36
167	Novel flexible nerve conduits made of water-based biodegradable polyurethane for peripheral nerve regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 1383-1392	5.4	35
166	Neural differentiation on aligned fullerene C nanowhiskers. <i>Chemical Communications</i> , 2017 , 53, 11024-11027	10.27	35
165	A study on chitosan modification of polyester fabrics by atmospheric pressure plasma and its antibacterial effects. <i>Fibers and Polymers</i> , 2008 , 9, 307-311	2	35
164	Spheroid formation and enhanced cardiomyogenic potential of adipose-derived stem cells grown on chitosan. <i>BioResearch Open Access</i> , 2013 , 2, 28-39	2.4	34
163	Quantitative evaluation of motor function before and after engraftment of dopaminergic neurons in a rat model of Parkinson's disease. <i>Journal of Biomedical Science</i> , 2010 , 17, 9	13.3	34
162	Semi-Interpenetrating Polymer Network of Hyaluronan and Chitosan Self-Healing Hydrogels for Central Nervous System Repair. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40108-40120	9.5	34
161	Cryogel/hydrogel biomaterials and acupuncture combined to promote diabetic skin wound healing through immunomodulation. <i>Biomaterials</i> , 2021 , 269, 120608	15.6	34
160	Smart polymers for cell therapy and precision medicine. <i>Journal of Biomedical Science</i> , 2019 , 26, 73	13.3	33

159	Enhanced chondrogenic differentiation potential of human gingival fibroblasts by spheroid formation on chitosan membranes. <i>Tissue Engineering - Part A</i> , 2012 , 18, 67-79	3.9	33
158	The use of peptide-delivery to protect human adipose-derived adult stem cells from damage caused by the internalization of quantum dots. <i>Biomaterials</i> , 2008 , 29, 925-36	15.6	33
157	A novel use of genipin-fixed gelatin as extracellular matrix for peripheral nerve regeneration. <i>Journal of Biomaterials Applications</i> , 2004 , 19, 21-34	2.9	33
156	Compliance effects on small diameter polyurethane graft patency. <i>Journal of Biomedical Materials Research Part B</i> , 1993 , 27, 1269-79		33
155	3D printing of tubular scaffolds with elasticity and complex structure from multiple waterborne polyurethanes for tracheal tissue engineering. <i>Applied Materials Today</i> , 2018 , 12, 330-341	6.6	32
154	Biocompatibility of poly(carbonate urethane)s with various degrees of nanophase separation. <i>Macromolecular Bioscience</i> , 2005 , 5, 246-53	5.5	32
153	Effects of unidirectional permeability in asymmetric poly(DL-lactic acid-co-glycolic acid) conduits on peripheral nerve regeneration: an in vitro and in vivo study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 83, 206-15	3.5	31
152	Biodegradable water-based polyurethane scaffolds with a sequential release function for cell-free cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2019 , 88, 301-313	10.8	31
151	Chitosan promotes cancer progression and stem cell properties in association with Wnt signaling in colon and hepatocellular carcinoma cells. <i>Scientific Reports</i> , 2017 , 8, 45751	4.9	30
150	Biostability and biocompatibility of poly(ether)urethane containing gold or silver nanoparticles in a porcine model. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 785-94	5.4	30
149	Biostability and biocompatibility of poly(ester urethane)-gold nanocomposites. <i>Acta Biomaterialia</i> , 2008 , 4, 1797-808	10.8	30
148	In vitro and in vivo effects of Ginkgo biloba extract EGb 761 on seeded Schwann cells within poly(DL-lactic acid-co-glycolic acid) conduits for peripheral nerve regeneration. <i>Journal of Biomaterials Applications</i> , 2004 , 19, 163-82	2.9	30
147	The effect of an RGD-containing fusion protein CBD-RGD in promoting cellular adhesion. <i>Journal of Biotechnology</i> , 2004 , 111, 143-54	3.7	29
146	Comparative In Vitro Evaluation of Two Different Preparations of Small Diameter Polyurethane Vascular Grafts. <i>Artificial Organs</i> , 2000 , 24, 119-128	2.6	29
145	Self-Healing Hydrogels and Cryogels from Biodegradable Polyurethane Nanoparticle Crosslinked Chitosan. <i>Advanced Science</i> , 2020 , 7, 1901388	13.6	29
144	Synthesis of water-dispersible zinc oxide quantum dots with antibacterial activity and low cytotoxicity for cell labeling. <i>Nanotechnology</i> , 2013 , 24, 475102	3.4	28
143	Antimicrobial activities and cellular responses to natural silicate clays and derivatives modified by cationic alkylamine salts. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2556-64	9.5	28
142	Fabrication of PLGA microvessel scaffolds with circular microchannels using soft lithography. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 2000-2005	2	28

141	Chitosan-hyaluronan based 3D co-culture platform for studying the crosstalk of lung cancer cells and mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2016 , 42, 157-167	10.8	27
140	Nanosheet transfection: effective transfer of naked DNA on silica glass. <i>NPG Asia Materials</i> , 2015 , 7, e18426	18.4	26
139	Non-viral delivery of an optogenetic tool into cells with self-healing hydrogel. <i>Biomaterials</i> , 2018 , 174, 31-40	15.6	26
138	Surfactant-modified nanoclay exhibits an antiviral activity with high potency and broad spectrum. <i>Journal of Virology</i> , 2014 , 88, 4218-28	6.6	26
137	Enhanced biocompatibility in biostable poly(carbonate)urethane. <i>Macromolecular Bioscience</i> , 2004 , 4, 464-70	5.5	26
136	Dynamic viscoelasticity study of the phase transition of poly(N-isopropylacrylamide). <i>Macromolecular Rapid Communications</i> , 2000 , 21, 476-480	4.8	26
135	Bioeffect of ultrasound on endothelial cells in vitro. <i>New Biotechnology</i> , 2004 , 21, 99-104		25
134	Effect of different solvents and crosslinkers on cytocompatibility of Type II collagen scaffolds for chondrocyte seeding. <i>Artificial Organs</i> , 2002 , 26, 18-26	2.6	25
133	Biomaterial substrate-derived compact cellular spheroids mimicking the behavior of pancreatic cancer and microenvironment. <i>Biomaterials</i> , 2019 , 213, 119202	15.6	24
132	Fractal Structure of Hydrogels Modulates Stem Cell Behavior. <i>ACS Macro Letters</i> , 2015 , 4, 1056-1061	6.6	24
131	Self-healing hydrogel for tissue repair in the central nervous system. <i>Neural Regeneration Research</i> , 2015 , 10, 1922-3	4.5	24
130	The substrate-dependent regeneration capacity of mesenchymal stem cell spheroids derived on various biomaterial surfaces. <i>Biomaterials Science</i> , 2014 , 2, 1652-1660	7.4	23
129	The effect of ultrasound stimulation versus bioreactors on neocartilage formation in tissue engineering scaffolds seeded with human chondrocytes in vitro. <i>New Biotechnology</i> , 2006 , 23, 259-64		23
128	Design Strategies of Conductive Hydrogel for Biomedical Applications. <i>Molecules</i> , 2020 , 25,	4.8	23
127	Synthesis of water-based cationic polyurethane for antibacterial and gene delivery applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 146, 825-32	6	23
126	Synthesis and characterization of waterborne polyurethane containing poly(3-hydroxybutyrate) as new biodegradable elastomers. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 9089-9097	7.3	22
125	A facile method to prepare superparamagnetic iron oxide and hydrophobic drug-encapsulated biodegradable polyurethane nanoparticles. <i>International Journal of Nanomedicine</i> , 2017 , 12, 1775-1789	7.3	22
124	Substrate-mediated reprogramming of human fibroblasts into neural crest stem-like cells and their applications in neural repair. <i>Biomaterials</i> , 2016 , 102, 148-61	15.6	22

123	Mediation of the migration of endothelial cells and fibroblasts on polyurethane nanocomposites by the activation of integrin-focal adhesion kinase signaling. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 26-37	5.4	22
122	The regulation of the gap junction of human mesenchymal stem cells through the internalization of quantum dots. <i>Biomaterials</i> , 2009 , 30, 1937-46	15.6	22
121	Enhanced biostability of polyurethane containing gold nanoparticles. <i>Polymer Degradation and Stability</i> , 2004 , 85, 675-680	4.7	22
120	Biocompatibility and favorable response of mesenchymal stem cells on fibronectin-gold nanocomposites. <i>PLoS ONE</i> , 2013 , 8, e65738	3.7	22
119	Evaluation and characterization of waterborne biodegradable polyurethane films for the prevention of tendon postoperative adhesion. <i>International Journal of Nanomedicine</i> , 2018 , 13, 5485-5497	7.3	22
118	Spongelike Porous Silica Nanosheets: From "Soft" Molecular Trapping to DNA Delivery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4509-4518	9.5	21
117	Biomaterial Substrate-Mediated Multicellular Spheroid Formation and Their Applications in Tissue Engineering. <i>Biotechnology Journal</i> , 2017 , 12, 1700064	5.6	21
116	In vitro biocompatibility of PTMO-based polyurethanes and those containing PDMS blocks. <i>Journal of Biomaterials Applications</i> , 2004 , 19, 135-46	2.9	21
115	Post-assembly dimension-dependent face-selective etching of fullerene crystals. <i>Materials Horizons</i> , 2020 , 7, 787-795	14.4	21
114	Effect of an Epineurial-Like Biohybrid Nerve Conduit on Nerve Regeneration. <i>Cell Transplantation</i> , 2016 , 25, 559-74	4	21
113	JSR photolithography based microvessel scaffold fabrication and cell seeding. <i>Biomedical Microdevices</i> , 2006 , 8, 17-23	3.7	20
112	Viscoelastic Behavior of Whey Protein Isolates at the Sol-Gel Transition Point. <i>Journal of Food Science</i> , 1996 , 61, 65-68	3.4	20
111	Thermo-Responsive Polyurethane Hydrogels Based on Poly(E-caprolactone) Diol and Amphiphilic Poly(lactide)-Poly(Ethylene Glycol) Block Copolymers. <i>Polymers</i> , 2016 , 8,	4.5	20
110	Carboxyl-functionalized polyurethane nanoparticles with immunosuppressive properties as a new type of anti-inflammatory platform. <i>Nanoscale</i> , 2015 , 7, 20352-64	7.7	19
109	Preparation of Polyurethane-Graphene Nanocomposite and Evaluation of Neurovascular Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 597-609	5.5	19
108	An injectable, self-healing phenol-functionalized chitosan hydrogel with fast gelling property and visible light-crosslinking capability for 3D printing. <i>Acta Biomaterialia</i> , 2021 , 122, 211-219	10.8	19
107	Cellular Spheroids of Mesenchymal Stem Cells and Their Perspectives in Future Healthcare. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 627	2.6	18
106	Cell attachment and proliferation on poly(carbonate urethanes) with various degrees of nanophase separation. <i>Macromolecular Bioscience</i> , 2004 , 4, 891-900	5.5	18

105	Using 3D bioprinting to produce mini-brain. <i>Neural Regeneration Research</i> , 2017 , 12, 1595-1596	4.5	18
104	Gene transfer on inorganic/organic hybrid silica nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 25455-62	3.6	17
103	Regulation of human endothelial progenitor cell maturation by polyurethane nanocomposites. <i>Biomaterials</i> , 2014 , 35, 6810-21	15.6	17
102	Chitosan derived co-spheroids of neural stem cells and mesenchymal stem cells for neural regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 158, 527-538	6	17
101	Efficacy and safety of nanohybrids comprising silver nanoparticles and silicate clay for controlling Salmonella infection. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2421-32	7.3	17
100	The properties of gelatin-poly (gamma-glutamic acid) hydrogels as biological glues. <i>Biorheology</i> , 2007 , 44, 17-28	1.7	17
99	Toward Understanding the Antitumor Effects of Water-Soluble Fullerene Derivatives on Lung Cancer Cells: Apoptosis or Autophagy Pathways?. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 7111-7125	8.3	16
98	Surface modification of poly(E-caprolactone) porous scaffolds using gelatin hydrogel as the tracheal replacement. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, 156-62	4.4	16
97	Comparison between two different methods of immobilizing NGF in poly(DL-lactic acid-co-glycolic acid) conduit for peripheral nerve regeneration by EDC/NHS/MES and genipin. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 99, 576-85	5.4	16
96	Fabrication of orderly nanostructured PLGA scaffolds using anodic aluminum oxide templates. <i>Biomedical Microdevices</i> , 2009 , 11, 843-50	3.7	16
95	Biomaterials and neural regeneration. <i>Neural Regeneration Research</i> , 2020 , 15, 1243-1244	4.5	16
94	Prominent Vascularization Capacity of Mesenchymal Stem Cells in Collagen-Gold Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28982-29000	9.5	16
93	TRAIL-Functionalized gold nanoparticles selectively trigger apoptosis in polarized macrophages. <i>Nanotheranostics</i> , 2017 , 1, 326-337	5.6	15
92	Preparation and characterization of novel water-based biodegradable polyurethane nanoparticles encapsulating superparamagnetic iron oxide and hydrophobic drugs. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 3391-3401	7.3	15
91	Neocartilage formation from mesenchymal stem cells grown in type II collagen-hyaluronan composite scaffolds. <i>Differentiation</i> , 2013 , 86, 171-83	3.5	15
90	Air plasma treated chitosan fibers-stacked scaffolds. <i>Biofabrication</i> , 2012 , 4, 015002	10.5	15
89	The fabrication of PLGA microvessel scaffolds with nano-patterned inner walls. <i>Biomedical Microdevices</i> , 2010 , 12, 841-8	3.7	15
88	On matching compliance between canine carotid arteries and polyurethane grafts. <i>Artificial Organs</i> , 1997 , 21, 1247-54	2.6	15

87	The effects of Ginkgo biloba extracts on the memory and motor functions of rats with chronic cerebral insufficiency. <i>Neuropsychobiology</i> , 2003 , 47, 47-51	4	15
86	Chitosan 3D cell culture system promotes naïve-like features of human induced pluripotent stem cells: A novel tool to sustain pluripotency and facilitate differentiation. <i>Biomaterials</i> , 2021 , 268, 120575	15.6	15
85	Nanoarchitectonic-Based Material Platforms for Environmental and Bioprocessing Applications. <i>Chemical Record</i> , 2019 , 19, 1891-1912	6.6	14
84	Characterization and biocompatibility of a titanium dental implant with a laser irradiated and dual-acid etched surface. <i>Bio-Medical Materials and Engineering</i> , 2007 , 17, 53-68	1	14
83	An Injectable, Electroconductive Hydrogel/Scaffold for Neural Repair and Motion Sensing. <i>Chemistry of Materials</i> , 2020 , 32, 10407-10422	9.6	13
82	Functional engineered mesenchymal stem cells with fibronectin-gold composite coated catheters for vascular tissue regeneration. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 699-711	6	13
81	Gelation Mechanism and Structural Dynamics of Chitosan Self-Healing Hydrogels by In Situ SAXS and Coherent X-ray Scattering. <i>ACS Macro Letters</i> , 2019 , 8, 1449-1455	6.6	13
80	The response of endothelial cells to polymer surface composed of nanometric micelles. <i>New Biotechnology</i> , 2009 , 25, 235-43	6.4	13
79	Enhanced biostability by using butenediol as chain extenders in the synthesis of poly(ether)urethanes. <i>Polymer Degradation and Stability</i> , 1999 , 65, 341-345	4.7	13
78	Angiogenic potential of co-spheroids of neural stem cells and endothelial cells in injectable gelatin-based hydrogel. <i>Materials Science and Engineering C</i> , 2019 , 99, 140-149	8.3	12
77	Biodegradable micelles from a hyaluronan-poly(ϵ -caprolactone) graft copolymer as nanocarriers for fibroblast growth factor 1. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5977-5987	7.3	12
76	Correlating cell transfectability and motility on materials with different physico-chemical properties. <i>Acta Biomaterialia</i> , 2015 , 28, 55-63	10.8	12
75	Enhancing silver nanoparticle and antimicrobial efficacy by the exfoliated clay nanoplatelets. <i>RSC Advances</i> , 2013 , 3, 7392	3.7	12
74	Cell migration rate on poly(ϵ -caprolactone)/poly(ethylene glycol) diblock copolymers and correlation with the material sliding angle. <i>Macromolecular Bioscience</i> , 2007 , 7, 482-90	5.5	12
73	The response of articular chondrocytes to type II collagen-Au nanocomposites. <i>Artificial Organs</i> , 2007 , 31, 854-68	2.6	12
72	Optogenetic Modulation and Reprogramming of Bacteriorhodopsin-Transfected Human Fibroblasts on Self-Assembled Fullerene C60 Nanosheets. <i>Advanced Biology</i> , 2019 , 3, e1800254	3.5	12
71	Enhanced Autophagy of Adipose-Derived Stem Cells Grown on Chitosan Substrates. <i>BioResearch Open Access</i> , 2015 , 4, 89-96	2.4	11
70	The role of RhoA kinase inhibition in human placenta-derived multipotent cells on neural phenotype and cell survival. <i>Biomaterials</i> , 2013 , 34, 3223-30	15.6	11

69	Amphiphilic silver-delaminated clay nanohybrids and their composites with polyurethane: physico-chemical and biological evaluations. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2178-2189	7.3	11
68	Effect of pH on Molecular Structures and Network of Glycol Chitosan. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 298-307	5.5	11
67	Injectable Phenolic-Chitosan Self-Healing Hydrogel with Hierarchical Micelle Architectures and Fast Adhesiveness. <i>Chemistry of Materials</i> , 2021 , 33, 3945-3958	9.6	11
66	A simple and efficient feeder-free culture system to up-scale iPSCs on polymeric material surface for use in 3D bioprinting. <i>Materials Science and Engineering C</i> , 2018 , 82, 69-79	8.3	10
65	An improved bioassay facilitates the screening of repellents against cat flea, <i>Ctenocephalides felis</i> (Siphonaptera: Pulicidae). <i>Pest Management Science</i> , 2014 , 70, 264-70	4.6	10
64	. <i>Journal of Medical and Biological Engineering</i> , 2012 , 32, 85	2.2	10
63	Long-Term Regeneration and Functional Recovery of a 15 mm Critical Nerve Gap Bridged by Tremella fuciformis Polysaccharide-Immobilized Polylactide Conduits. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013 , 2013, 959261	2.3	10
62	Synthesis of a new photoreactive gelatin with BTDA and HEMA derivatives. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 589-596	2.9	10
61	A 3D-printable, glucose-sensitive and thermoresponsive hydrogel as sacrificial materials for constructs with vascular-like channels. <i>Applied Materials Today</i> , 2020 , 20, 100778	6.6	10
60	A Biodegradable Chitosan-Polyurethane Cryogel with Switchable Shape Memory. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9702-9713	9.5	10
59	The effect of two different bioreactors on the neocartilage formation in type II collagen modified polyester scaffolds seeded with chondrocytes. <i>Artificial Organs</i> , 2005 , 29, 467-74	2.6	9
58	The susceptibility of poly(ether)urethanes to enzymatic degradation after oxidative pretreatment. <i>Polymer Degradation and Stability</i> , 2000 , 67, 171-178	4.7	9
57	Life science nanoarchitectonics at interfaces. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1018-1032	7.8	9
56	Design and Development of a Novel Frozen-Form Additive Manufacturing System for Tissue Engineering Applications. <i>3D Printing and Additive Manufacturing</i> , 2016 , 3, 216-225	4	8
55	Polymer surface interacts with calcium in aqueous media to induce stem cell assembly. <i>Advanced Healthcare Materials</i> , 2015 , 4, 2186-94	10.1	8
54	The biocompatibility and antimicrobial activity of nanocomposites from polyurethane and nano silicate platelets. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 99, 192-202	5.4	8
53	Molecular Structures and Mechanisms of Waterborne Biodegradable Polyurethane Nanoparticles. <i>Computational and Structural Biotechnology Journal</i> , 2019 , 17, 110-117	6.8	8
52	Polyurethane Nanoparticle-Loaded Fenofibrate Exerts Inhibitory Effects on Nonalcoholic Fatty Liver Disease in Mice. <i>Molecular Pharmaceutics</i> , 2018 , 15, 4550-4557	5.6	8

51	Fabrication of biodegradable polyurethane microspheres by a facile and green process. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 878-87	3.5	7
50	Artificial extracellular matrix proteins contain heparin-binding and RGD-containing domains to improve osteoblast-like cell attachment and growth. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 557-65	5.4	7
49	Fullerene Derivatives as Lung Cancer Cell Inhibitors: Investigation of Potential Descriptors Using QSAR Approaches. <i>International Journal of Nanomedicine</i> , 2020 , 15, 2485-2499	7.3	7
48	Increased cell survival of cells exposed to superparamagnetic iron oxide nanoparticles through biomaterial substrate-induced autophagy. <i>Biomaterials Science</i> , 2016 , 4, 670-7	7.4	6
47	Microwell chips for selection of bio-macromolecules that increase the differentiation capacities of mesenchymal stem cells. <i>Macromolecular Bioscience</i> , 2013 , 13, 1100-9	5.5	6
46	4D bioprintable self-healing hydrogel with shape memory and cryopreserving properties. <i>Biofabrication</i> , 2021 , 13,	10.5	6
45	Thermoresponsive and Conductive Chitosan-Polyurethane Biocompatible Thin Films with Potential Coating Application. <i>Polymers</i> , 2021 , 13,	4.5	6
44	Biocompatible Nanogold Carrier Coated with Hyaluronic Acid for Efficient Delivery of Plasmid or siRNA to Mesenchymal Stem Cells.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1017-1030	4.1	5
43	Segmentation and tracking of stem cells in time lapse microscopy to quantify dynamic behavioral changes during spheroid formation. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015 , 87, 491-502	4.6	5
42	Human endothelial cell response to polyurethane-gold nanocomposites. <i>Gold Bulletin</i> , 2012 , 45, 161-170	1.6	5
41	The effect of laser preexposure on seeding endothelial cells to a biomaterial surface. <i>Photomedicine and Laser Surgery</i> , 2010 , 28 Suppl 2, S37-42		5
40	Visualization of peripheral nerve regeneration. <i>Neural Regeneration Research</i> , 2014 , 9, 997-9	4.5	5
39	Mesenchymal stem cells from a hypoxic culture improve nerve regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 1804-1814	4.4	5
38	An anti-inflammatory gelatin hemostatic agent with biodegradable polyurethane nanoparticles for vulnerable brain tissue. <i>Materials Science and Engineering C</i> , 2021 , 121, 111799	8.3	5
37	Identification of potential descriptors of water-soluble fullerene derivatives responsible for antitumor effects on lung cancer cells via QSAR analysis. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 812-825	6.8	5
36	Fast isolation and expansion of multipotent cells from adipose tissue based on chitosan-selected primary culture. <i>Biomaterials</i> , 2015 , 65, 154-62	15.6	4
35	Effective naked plasmid DNA delivery into stem cells by microextrusion-based transient-transfection system for in situ cardiac repair. <i>Cytotherapy</i> , 2020 , 22, 70-81	4.8	4
34	Efficient gene silencing in mesenchymal stem cells by substrate-mediated RNA interference. <i>Tissue Engineering - Part C: Methods</i> , 2014 , 20, 916-30	2.9	4

33	Ultrasound preexposure improves endothelial cell binding and retention on biomaterial surfaces. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 76, 85-92	3.5	4
32	Enhanced Biocompatibility and Differentiation Capacity of Mesenchymal Stem Cells on Poly(dimethylsiloxane) by Topographically Patterned Dopamine. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44393-44406	9.5	4
31	Self-patterning of adipose-derived mesenchymal stem cells and chondrocytes cocultured on hyaluronan-grafted chitosan surface. <i>Biointerphases</i> , 2016 , 11, 011011	1.8	4
30	Water/ice as sprayable sacrificial materials in low-temperature 3D printing for biomedical applications. <i>Materials and Design</i> , 2018 , 160, 624-635	8.1	4
29	Stability of biodegradable waterborne polyurethane films in buffered saline solutions. <i>Biointerphases</i> , 2015 , 10, 031006	1.8	3
28	Surface Modification by Nanobiomaterials for Vascular Tissue Engineering Applications. <i>Current Medicinal Chemistry</i> , 2020 , 27, 1634-1646	4.3	3
27	Adipose-Derived Mesenchymal Stem Cells From a Hypoxic Culture Improve Neuronal Differentiation and Nerve Repair. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 658099	5.7	3
26	Development of MOF Reinforcement for Structural Stability and Toughness Enhancement of Biodegradable Bioinks. <i>Biomacromolecules</i> , 2021 , 22, 1053-1064	6.9	3
25	Nanogold-Carried Graphene Oxide: Anti-Inflammation and Increased Differentiation Capacity of Mesenchymal Stem Cells. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
24	Potential of Engineered Bacteriorhodopsins as Photoactivated Biomaterials in Modulating Neural Stem Cell Behavior. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 3068-3078	5.5	2
23	Quantitative Bioimage Analysis of Passaging Effect on the Migratory Behavior of Human Mesenchymal Stem Cells During Spheroid Formation. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020 , 97, 394-406	4.6	2
22	Structure characterizations and protein resistance of chitosan membranes selectively crosslinked by poly(ethylene glycol) dimethacrylate. <i>Cellulose</i> , 2014 , 21, 1431-1444	5.5	2
21	Air-liquid interfacial movement in models simulating airway reopening. <i>Medical Engineering and Physics</i> , 1998 , 20, 558-64	2.4	2
20	Nanogold-Based Carriers for the Nonviral Delivery of Neural Peptides. <i>Journal of Neuroscience and Neuroengineering</i> , 2012 , 1, 143-152		2
19	Delivery Capacity and Anticancer Ability of the Berberine-Loaded Gold Nanoparticles to Promote the Apoptosis Effect in Breast Cancer. <i>Cancers</i> , 2021 , 13,	6.6	2
18	Revealing the Phagosomal pH Regulation and Inflammation of Macrophages after Endocytosing Polyurethane Nanoparticles by A Ratiometric pH Nanosensor. <i>Advanced Biology</i> , 2021 , 5, e2000200		2
17	Electromagnetic Shielding Effectiveness and Conductivity of PTFE/Ag/MWCNT Conductive Fabrics Using the Screen Printing Method. <i>Sustainability</i> , 2020 , 12, 5899	3.6	2
16	Endothelial cell attachment to the gamma irradiated small diameter polyurethane vascular grafts. <i>Bio-Medical Materials and Engineering</i> , 2006 , 16, 397-404	1	2

15	Peripheral Nerve Tissue Engineering and Regeneration Observed Using MRI 2017 , 367-382		1
14	From Nanoarchitectonics to Tissue Architectonics: Nanomaterials for Tissue Engineering 2019 , 277-288		1
13	Cell Positioning by Patterned Nanowires. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015 , 25, 312-317	3.2	1
12	Nanohybrids of silver particles on clay platelets delaminate Pseudomonas biofilms. <i>Nanomedicine</i> , 2014 , 9, 1019-33	5.6	1
11	Molecular interaction mechanisms of glycol chitosan self-healing hydrogel as a drug delivery system for gemcitabine and doxorubicin.. <i>Computational and Structural Biotechnology Journal</i> , 2022 , 20, 700-709	6.8	1
10	Three-dimensional printing of chitosan cryogel as injectable and shape recoverable scaffolds.. <i>Carbohydrate Polymers</i> , 2022 , 285, 119228	10.3	1
9	Creative transformation of biomedical polyurethanes: from biostable tubing to biodegradable smart materials. <i>Journal of Polymer Research</i> , 2022 , 29, 1	2.7	1
8	Radiofluorination process development and Tau protein imaging studies of [F-18]FEONM. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 68, 119-129	5.3	1
7	Anti-Inflammatory Fibronectin-AgNP for Regulation of Biological Performance and Endothelial Differentiation Ability of Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
6	Functionalized collagen-silver nanocomposites for evaluation of the biocompatibility and vascular differentiation capacity of mesenchymal stem cells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 624, 126814	5.1	1
5	Regulatory RNAs, microRNA, long-non coding RNA and circular RNA roles in colorectal cancer stem cells.. <i>World Journal of Gastrointestinal Oncology</i> , 2022 , 14, 748-764	3.4	0
4	An anti-inflammatory electroconductive hydrogel with self-healing property for the treatment of Parkinson's disease. <i>Chemical Engineering Journal</i> , 2022 , 446, 137180	14.7	0
3	Towards Nanomaterials-Based Biocompatible and Biodegradable Strain Sensors for Healthcare and Medical Applications. <i>Proceedings (mdpi)</i> , 2020 , 56, 17	0.3	
2	LOW-INTENSITY ULTRASOUND INCREASES THE ENDOTHELIAL NITRIC OXIDE SYNTHASE (eNOS) EXPRESSION OF ENDOTHELIAL CELLS POSSIBLY VIA THE PHOSPHATIDYLINOSITOL 3-KINASE/AKT/PROTEIN KINASE A SIGNALING PATHWAY. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2018 , 22, 367-376	0.6	
1	Placental Stem Cells for Cartilage Tissue Engineering 2014 , 183-189		