

Justin J Cooper-White

List of Publications by Citations

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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.

195
papers

9,973
citations

53
h-index

92
g-index

212
ext. papers

11,883
ext. citations

7
avg, IF

6.5
L-index

#	Paper	IF	Citations
195	Diagnostic potential of saliva: current state and future applications. <i>Clinical Chemistry</i> , 2011 , 57, 675-87	5.5	462
194	Directing osteogenic and myogenic differentiation of MSCs: interplay of stiffness and adhesive ligand presentation. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 295, C1037-44	5.4	406
193	A mathematical model explains saturating axon guidance responses to molecular gradients. <i>ELife</i> , 2016 , 5, e12248	8.9	370
192	Effects of extracellular matrix viscoelasticity on cellular behaviour. <i>Nature</i> , 2020 , 584, 535-546	50.4	362
191	Controllable surface modification of poly(lactic-co-glycolic acid) (PLGA) by hydrolysis or aminolysis I: physical, chemical, and theoretical aspects. <i>Biomacromolecules</i> , 2004 , 5, 463-73	6.9	330
190	The influence of substrate creep on mesenchymal stem cell behaviour and phenotype. <i>Biomaterials</i> , 2011 , 32, 5979-93	15.6	271
189	The inertio-elastic planar entry flow of low-viscosity elastic fluids in micro-fabricated geometries. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005 , 129, 1-22	2.7	258
188	Capillary Break-up Rheometry of Low-Viscosity Elastic Fluids. <i>Applied Rheology</i> , 2005 , 15, 12-27	1.2	244
187	Increasing electrospun scaffold pore size with tailored collectors for improved cell penetration. <i>Acta Biomaterialia</i> , 2011 , 7, 2544-57	10.8	196
186	Role of the elasticity number in the entry flow of dilute polymer solutions in micro-fabricated contraction geometries. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007 , 143, 170-191	2.7	188
185	Enhanced chondrogenic differentiation of human bone marrow-derived mesenchymal stem cells in low oxygen environment micropellet cultures. <i>Cell Transplantation</i> , 2010 , 19, 29-42	4	165
184	The effect of elasticity on drop creation in T-shaped microchannels. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006 , 137, 121-136	2.7	161
183	Palladium nanoparticles decorated carbon nanotubes: facile synthesis and their applications as highly efficient catalysts for the reduction of 4-nitrophenol. <i>Green Chemistry</i> , 2012 , 14, 586	10	137
182	A blank slate? Layer-by-layer deposition of hyaluronic acid and chitosan onto various surfaces. <i>Biomacromolecules</i> , 2006 , 7, 1610-22	6.9	130
181	Lateral spacing of adhesion peptides influences human mesenchymal stem cell behaviour. <i>Journal of Cell Science</i> , 2012 , 125, 317-27	5.3	128
180	The effect of time-dependent deformation of viscoelastic hydrogels on myogenic induction and Rac1 activity in mesenchymal stem cells. <i>Biomaterials</i> , 2014 , 35, 1857-68	15.6	127
179	New murine model of spontaneous autologous tissue engineering, combining an arteriovenous pedicle with matrix materials. <i>Plastic and Reconstructive Surgery</i> , 2004 , 113, 260-9	2.7	127

178	The influence of architecture on degradation and tissue ingrowth into three-dimensional poly(lactic-co-glycolic acid) scaffolds in vitro and in vivo. <i>Biomaterials</i> , 2006 , 27, 2854-64	15.6	115
177	The role of dynamic surface tension and elasticity on the dynamics of drop impact. <i>Chemical Engineering Science</i> , 2001 , 56, 5575-5592	4.4	112
176	Drop formation dynamics of constant low-viscosity, elastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2002 , 106, 29-59	2.7	110
175	Rheological properties of poly(lactides). Effect of molecular weight and temperature on the viscoelasticity of poly(l-lactic acid). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999 , 37, 1803-1814	2.6	110
174	An injectable hydrogel incorporating mesenchymal precursor cells and pentosan polysulphate for intervertebral disc regeneration. <i>Biomaterials</i> , 2013 , 34, 9430-40	15.6	108
173	Evaluation of saliva collection devices for the analysis of proteins. <i>Clinica Chimica Acta</i> , 2012 , 413, 1066-70	2	107
172	Film blowing of linear low-density polyethylene blended with a novel hyperbranched polymer processing aid. <i>Polymer</i> , 2000 , 41, 7705-7713	3.9	99
171	A novel saliva-based microRNA biomarker panel to detect head and neck cancers. <i>Cellular Oncology (Dordrecht)</i> , 2014 , 37, 331-8	7.2	96
170	The impact of saliva collection and processing methods on CRP, IgE, and Myoglobin immunoassays. <i>Clinical and Translational Medicine</i> , 2012 , 1, 19	5.7	96
169	Saliva proteome research: current status and future outlook. <i>Critical Reviews in Biotechnology</i> , 2013 , 33, 246-59	9.4	95
168	A novel multishear microdevice for studying cell mechanics. <i>Lab on A Chip</i> , 2009 , 9, 1897-902	7.2	95
167	Adipose differentiation of bone marrow-derived mesenchymal stem cells using Pluronic F-127 hydrogel in vitro. <i>Biomaterials</i> , 2008 , 29, 573-9	15.6	93
166	Control of autophagosome axonal retrograde flux by presynaptic activity unveiled using botulinum neurotoxin type a. <i>Journal of Neuroscience</i> , 2015 , 35, 6179-94	6.6	91
165	The fabrication and characterization of biodegradable HA/PHBV nanoparticle-polymer composite scaffolds. <i>Acta Biomaterialia</i> , 2009 , 5, 2657-67	10.8	89
164	Biopolymer microparticle and nanoparticle formation within a microfluidic device. <i>Langmuir</i> , 2008 , 24, 6937-45	4	89
163	Adipose tissue engineering based on the controlled release of fibroblast growth factor-2 in a collagen matrix. <i>Tissue Engineering</i> , 2006 , 12, 3035-43		88
162	One-step homogeneous C-reactive protein assay for saliva. <i>Journal of Immunological Methods</i> , 2011 , 373, 19-25	2.5	85
161	Self-assembling polystyrene-block-poly(ethylene oxide) copolymer surface coatings: resistance to protein and cell adhesion. <i>Biomaterials</i> , 2009 , 30, 2449-56	15.6	80

160	Tumor-suppressor Gene Promoter Hypermethylation in Saliva of Head and Neck Cancer Patients. <i>Translational Oncology</i> , 2012 , 5, 321-6	4.9	79
159	Tissue-engineered breast reconstruction: bridging the gap toward large-volume tissue engineering in humans. <i>Plastic and Reconstructive Surgery</i> , 2011 , 128, 1206-1215	2.7	75
158	Long term culture of human embryonic stem cells on recombinant vitronectin in ascorbate free media. <i>Biomaterials</i> , 2010 , 31, 8281-8	15.6	75
157	Increasing the volume of vascularized tissue formation in engineered constructs: an experimental study in rats. <i>Plastic and Reconstructive Surgery</i> , 2003 , 111, 1186-92; discussion 1193-4	2.7	72
156	Modelling oxygen diffusion and cell growth in a porous, vascularising scaffold for soft tissue engineering applications. <i>Chemical Engineering Science</i> , 2005 , 60, 4924-4934	4.4	70
155	miRNAs in head and neck cancer revisited. <i>Cellular Oncology (Dordrecht)</i> , 2013 , 36, 1-7	7.2	69
154	Primitive cardiac cells from human embryonic stem cells. <i>Stem Cells and Development</i> , 2012 , 21, 1513-23	4.4	68
153	High-throughput, deterministic single cell trapping and long-term clonal cell culture in microfluidic devices. <i>Lab on A Chip</i> , 2015 , 15, 1072-83	7.2	67
152	Directing phenotype of vascular smooth muscle cells using electrically stimulated conducting polymer. <i>Biomaterials</i> , 2008 , 29, 4510-20	15.6	65
151	Mechanically-sensitive miRNAs bias human mesenchymal stem cell fate via mTOR signalling. <i>Nature Communications</i> , 2018 , 9, 257	17.4	63
150	Pushing the Limits of High Throughput PET-RAFT Polymerization. <i>Macromolecules</i> , 2018 , 51, 7600-7607	5.5	63
149	Electrospinning and crosslinking of low-molecular-weight poly(trimethylene carbonate-co-(L)-lactide) as an elastomeric scaffold for vascular engineering. <i>Acta Biomaterialia</i> , 2013 , 9, 6885-97	10.8	61
148	Transplantation of 3D scaffolds seeded with human embryonic stem cells: biological features of surrogate tissue and teratoma-forming potential. <i>Regenerative Medicine</i> , 2007 , 2, 289-300	2.5	60
147	Cross-linked poly(trimethylene carbonate-co-L-lactide) as a biodegradable, elastomeric scaffold for vascular engineering applications. <i>Biomacromolecules</i> , 2011 , 12, 3856-69	6.9	57
146	Long-term stability of adipose tissue generated from a vascularized pedicled fat flap inside a chamber. <i>Plastic and Reconstructive Surgery</i> , 2011 , 127, 2283-2292	2.7	57
145	The interplay between chondrocyte redifferentiation pellet size and oxygen concentration. <i>PLoS ONE</i> , 2013 , 8, e58865	3.7	56
144	Low biofouling chitosan-hyaluronic acid multilayers with ultra-low friction coefficients. <i>Biomacromolecules</i> , 2009 , 10, 1287-94	6.9	56
143	A simple method for fabricating 3-D multilayered composite scaffolds. <i>Acta Biomaterialia</i> , 2013 , 9, 4599-608	6.8	55

142	Tailorable cell culture platforms from enzymatically cross-linked multifunctional poly(ethylene glycol)-based hydrogels. <i>Biomacromolecules</i> , 2013 , 14, 413-23	6.9	52
141	Hierarchical scaffolds via combined macro- and micro-phase separation. <i>Biomaterials</i> , 2010 , 31, 641-7	15.6	52
140	Differential response of patient-derived primary glioblastoma cells to environmental stiffness. <i>Scientific Reports</i> , 2016 , 6, 23353	4.9	50
139	Focal adhesion dynamics are altered in schizophrenia. <i>Biological Psychiatry</i> , 2013 , 74, 418-26	7.9	50
138	Nanoscale presentation of cell adhesive molecules via block copolymer self-assembly. <i>Biomaterials</i> , 2009 , 30, 4732-7	15.6	50
137	Effects of bound versus soluble pentosan polysulphate in PEG/HA-based hydrogels tailored for intervertebral disc regeneration. <i>Biomaterials</i> , 2014 , 35, 1150-62	15.6	49
136	The hematopoietic stem cell niche: what are we trying to replicate?. <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 421-443	3.5	48
135	Optimization of flowrate for expansion of human embryonic stem cells in perfusion microbioreactors. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2894-904	4.9	46
134	Generating iPSCs: translating cell reprogramming science into scalable and robust biomanufacturing strategies. <i>Cell Stem Cell</i> , 2015 , 16, 13-7	18	45
133	Multilayered microspheres for the controlled release of growth factors in tissue engineering. <i>Biomacromolecules</i> , 2011 , 12, 1494-503	6.9	45
132	Effect of Poly(vinyl alcohol) Macromer Chemistry and Chain Interactions on Hydrogel Mechanical Properties. <i>Chemistry of Materials</i> , 2007 , 19, 2641-2648	9.6	44
131	Modulation of stem cell adhesion and morphology via facile control over surface presentation of cell adhesion molecules. <i>Biomacromolecules</i> , 2014 , 15, 43-52	6.9	43
130	Gelation kinetics and viscoelastic properties of pluronic and Cyclodextrin-based pseudopolyrotaxane hydrogels. <i>Biomacromolecules</i> , 2013 , 14, 3780-92	6.9	42
129	Concise review: tailoring bioengineered scaffolds for stem cell applications in tissue engineering and regenerative medicine. <i>Stem Cells Translational Medicine</i> , 2015 , 4, 156-64	6.9	42
128	Microbioreactor arrays for full factorial screening of exogenous and paracrine factors in human embryonic stem cell differentiation. <i>PLoS ONE</i> , 2012 , 7, e52405	3.7	42
127	Extensional properties of hydroxypropyl ether guar gum solutions. <i>Biomacromolecules</i> , 2008 , 9, 2989-966.9		42
126	Induction of Human iPSC-Derived Cardiomyocyte Proliferation Revealed by Combinatorial Screening in High Density Microbioreactor Arrays. <i>Scientific Reports</i> , 2016 , 6, 24637	4.9	41
125	Flux of signalling endosomes undergoing axonal retrograde transport is encoded by presynaptic activity and TrkB. <i>Nature Communications</i> , 2016 , 7, 12976	17.4	41

124	Accelerated Combinatorial High Throughput Star Polymer Synthesis via a Rapid One-Pot Sequential Aqueous RAFT (rosa-RAFT) Polymerization Scheme. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1600780	4.8	40
123	Surface-bound stem cell factor and the promotion of hematopoietic cell expansion. <i>Biomaterials</i> , 2009 , 30, 4047-52	15.6	40
122	Ascorbate promotes epigenetic activation of CD30 in human embryonic stem cells. <i>Stem Cells</i> , 2010 , 28, 1782-93	5.8	40
121	Effects of biomimetic surfaces and oxygen tension on redifferentiation of passaged human fibrochondrocytes in 2D and 3D cultures. <i>Biomaterials</i> , 2011 , 32, 5600-14	15.6	38
120	Systematic selection of solvents for the fabrication of 3D combined macro- and microporous polymeric scaffolds for soft tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006 , 17, 369-402	3.5	38
119	A general and efficient method for decorating graphene sheets with metal nanoparticles based on the non-covalently functionalized graphene sheets with hyperbranched polymers. <i>Nanoscale</i> , 2012 , 4, 1355-61	7.7	37
118	Long-Term Culture of Self-renewing Pancreatic Progenitors Derived from Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2017 , 8, 1675-1688	8	36
117	Aligned poly(L-lactic-co-e-caprolactone) electrospun microfibers and knitted structure: a novel composite scaffold for ligament tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 1270-82	5.4	36
116	Adaptable boronate ester hydrogels with tunable viscoelastic spectra to probe timescale dependent mechanotransduction. <i>Biomaterials</i> , 2019 , 223, 119430	15.6	35
115	Metabolic profiling and flux analysis of MEL-2 human embryonic stem cells during exponential growth at physiological and atmospheric oxygen concentrations. <i>PLoS ONE</i> , 2014 , 9, e112757	3.7	35
114	NT-ProBNP levels in saliva and its clinical relevance to heart failure. <i>PLoS ONE</i> , 2012 , 7, e48452	3.7	35
113	High-yield RNA-extraction method for saliva. <i>Clinical Chemistry</i> , 2013 , 59, 1118-22	5.5	35
112	A defined medium and substrate for expansion of human mesenchymal stromal cell progenitors that enriches for osteo- and chondrogenic precursors. <i>Stem Cells and Development</i> , 2011 , 20, 77-87	4.4	35
111	Local Integrin Activation in Pancreatic β Cells Targets Insulin Secretion to the Vasculature. <i>Cell Reports</i> , 2018 , 24, 2819-2826.e3	10.6	35
110	The importance of downstream events in microfluidic viscoelastic entry flows: Consequences of increasing the constriction length. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010 , 165, 1189-1203	2.7	33
109	Extracellular matrix-specific Caveolin-1 phosphorylation on tyrosine 14 is linked to augmented melanoma metastasis but not tumorigenesis. <i>Oncotarget</i> , 2016 , 7, 40571-40593	3.3	33
108	Differential mesengenic potential and expression of stem cell-fate modulators in mesenchymal stromal cells from human-term placenta and bone marrow. <i>Journal of Cellular Physiology</i> , 2012 , 227, 3234-42	7	32
107	Functionalised polycaprolactone films and 3D scaffolds via gamma irradiation-induced grafting. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4171-4181	7.3	32

106	Interactions between meniscal cells and a self assembled biomimetic surface composed of hyaluronic acid, chitosan and meniscal extracellular matrix molecules. <i>Biomaterials</i> , 2010 , 31, 6104-18	15.6	32
105	Defined high protein content surfaces for stem cell culture. <i>Biomaterials</i> , 2010 , 31, 5137-42	15.6	31
104	DNA Methylation at the Novel CpG Sites in the Promoter of MED15/PCQAP Gene as a Biomarker for Head and Neck Cancers. <i>Biomarker Insights</i> , 2014 , 9, 53-60	3.5	30
103	Pendant drop formation of shear-thinning and yield stress fluids. <i>Applied Mathematical Modelling</i> , 2006 , 30, 1392-1405	4.5	30
102	Determinants of Zika virus host tropism uncovered by deep mutational scanning. <i>Nature Microbiology</i> , 2019 , 4, 876-887	26.6	29
101	Derivation of mesenchymal stromal cells from canine induced pluripotent stem cells by inhibition of the TGF β /activin signaling pathway. <i>Stem Cells and Development</i> , 2014 , 23, 3021-33	4.4	29
100	Attachment of poly(acrylic acid) to 3-aminopropyltriethoxysilane surface-modified hydroxyapatite. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5842-5852	7.3	29
99	Tailoring biomaterial scaffolds for osteochondral repair. <i>International Journal of Pharmaceutics</i> , 2017 , 523, 476-489	6.5	29
98	Effects of fluid-fluid interfacial elasticity on droplet formation in microfluidic devices. <i>AIChE Journal</i> , 2011 , 57, 1669-1677	3.6	29
97	Arrayed cellular environments for stem cells and regenerative medicine. <i>Biotechnology Journal</i> , 2013 , 8, 167-79	5.6	28
96	Non-fibrillar components of amyloid deposits mediate the self-association and tangling of amyloid fibrils. <i>Journal of Biological Chemistry</i> , 2004 , 279, 21038-45	5.4	28
95	Hyperbranched polymer mediated fabrication of water soluble carbon nanotube-metal nanoparticle hybrids. <i>Nanoscale</i> , 2013 , 5, 2915-20	7.7	27
94	Characterisation of amine functionalised poly(3-hydroxybuturate-co-3-hydroxyvalerate) surfaces. <i>Polymer</i> , 2011 , 52, 3251-3258	3.9	26
93	Concise review: microfluidic technology platforms: poised to accelerate development and translation of stem cell-derived therapies. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 81-90	6.9	25
92	Dynamics of Polymer-Surfactant Complexes: Elongational Properties and Drop Impact Behavior. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 6443-6459	3.9	24
91	Hydrolytically degradable polyrotaxane hydrogels for drug and cell delivery applications. <i>Biomacromolecules</i> , 2015 , 16, 389-403	6.9	23
90	Modelling ischemia-reperfusion injury (IRI) using metabolically matured induced pluripotent stem cell-derived cardiomyocytes. <i>APL Bioengineering</i> , 2018 , 2, 026102	6.6	23
89	Effects of cell density and biomacromolecule addition on the flow behavior of concentrated mesenchymal cell suspensions. <i>Biomacromolecules</i> , 2013 , 14, 4388-97	6.9	23

88	Extensional flows of polymer solutions in microfluidic converging/diverging geometries. <i>Central South University</i> , 2007 , 14, 6-9		23
87	Production and surface modification of polylactide-based polymeric scaffolds for soft-tissue engineering. <i>Methods in Molecular Biology</i> , 2004 , 238, 87-112	1.4	23
86	Five Piconewtons: The Difference between Osteogenic and Adipogenic Fate Choice in Human Mesenchymal Stem Cells. <i>ACS Nano</i> , 2019 , 13, 11129-11143	16.7	22
85	Full factorial screening of human embryonic stem cell maintenance with multiplexed microbioreactor arrays. <i>Biotechnology Journal</i> , 2013 , 8, 822-34	5.6	22
84	Evaluation of dynamic creep properties of surgical mesh prostheses--uniaxial fatigue. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 91, 287-96	3.5	22
83	A biocompatible thermoset polymer binder for Direct Ink Writing of porous titanium scaffolds for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2019 , 95, 160-165	8.3	22
82	Poly(glycerol sebacate) bioelastomers kinetics of step-growth reactions using Fourier Transform (FT)-Raman spectroscopy. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 3980-3986	2.9	21
81	Analysis of the extreme diversity of salivary alpha-amylase isoforms generated by physiological proteolysis using liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012 , 911, 21-6	3.2	21
80	The use of an electrostatic lens to enhance the efficiency of the electrospinning process. <i>Cell and Tissue Research</i> , 2012 , 347, 815-26	4.2	21
79	Scaffolds, Stem Cells, and Tissue Engineering: A Potent Combination!. <i>Australian Journal of Chemistry</i> , 2005 , 58, 691	1.2	21
78	Microfluidic Screening Reveals Heparan Sulfate Enhances Human Mesenchymal Stem Cell Growth by Modulating Fibroblast Growth Factor-2 Transport. <i>Stem Cells Translational Medicine</i> , 2017 , 6, 1178-1190	6.9	20
77	Visualizing endocytic recycling and trafficking in live neurons by subdiffractional tracking of internalized molecules. <i>Nature Protocols</i> , 2017 , 12, 2590-2622	18.8	20
76	Microbioreactor array for full-factorial analysis of provision of multiple soluble factors in cellular microenvironments. <i>Biotechnology and Bioengineering</i> , 2009 , 104, 1240-4	4.9	20
75	Targeted, Stimuli-Responsive Delivery of Plasmid DNA and miRNAs Using a Facile Self-Assembled Supramolecular Nanoparticle System. <i>Biomacromolecules</i> , 2018 , 19, 353-363	6.9	19
74	Concise review: new frontiers in microRNA-based tissue regeneration. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 969-76	6.9	19
73	High-throughput bone and cartilage micropellet manufacture, followed by assembly of micropellets into biphasic osteochondral tissue. <i>Cell and Tissue Research</i> , 2015 , 361, 755-68	4.2	19
72	Interactions of meniscal cells with extracellular matrix molecules: towards the generation of tissue engineered menisci. <i>Cell Adhesion and Migration</i> , 2011 , 5, 220-6	3.2	19
71	Coupling Hydrophilic Amine-Containing Molecules to the Backbone of Poly(ϵ -Caprolactone). <i>Australian Journal of Chemistry</i> , 2006 , 59, 534	1.2	19

70	Architecture control of three-dimensional polymeric scaffolds for soft tissue engineering. I. Establishment and validation of numerical models. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 71, 81-9		19
69	Viscoelasticity of radiation-formed PVA/PVP hydrogel. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002 , 13, 1007-20	3.5	19
68	Dispersion of hydroxyapatite nanoparticles in solution and in polycaprolactone composite scaffolds. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 409-421	7.3	18
67	Inertio-elastic mixing in a straight microchannel with side wells. <i>Applied Physics Letters</i> , 2016 , 108, 014103	3.4	18
66	Geometrical effects in microfluidic-based microarrays for rapid, efficient single-cell capture of mammalian stem cells and plant cells. <i>Biomicrofluidics</i> , 2012 , 6, 241112-2411217	3.2	17
65	The effects of chain conformation in the microfluidic entry flow of polymer-surfactant systems. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009 , 160, 22-30	2.7	17
64	A microdevice for the creation of patent, three-dimensional endothelial cell-based microcirculatory networks. <i>Biomicrofluidics</i> , 2011 , 5, 341115-3411514	3.2	17
63	Addition of biological functionality to poly(epsilon-caprolactone) films. <i>Biomacromolecules</i> , 2007 , 8, 2416-21	3.1	17
62	Effects of Varying Heptylamine and Propionaldehyde Plasma Polymerization Parameters on Mesenchymal Stem Cell Attachment. <i>Plasma Processes and Polymers</i> , 2013 , 10, 19-28	3.4	16
61	Quantification of D-dimer levels in human saliva. <i>Bioanalysis</i> , 2013 , 5, 2249-56	2.1	16
60	Circulating fragments of N-terminal pro-B-type natriuretic peptides in plasma of heart failure patients. <i>Clinical Chemistry</i> , 2013 , 59, 1523-31	5.5	16
59	Kinetically constrained block copolymer self-assembly a simple method to control domain size. <i>European Polymer Journal</i> , 2009 , 45, 1065-1071	5.2	16
58	Isolation of contractile cardiomyocytes from human pluripotent stem-cell-derived cardiomyogenic cultures using a human NCX1-EGFP reporter. <i>Stem Cells and Development</i> , 2015 , 24, 11-20	4.4	15
57	Transgenic human ES and iPS reporter cell lines for identification and selection of pluripotent stem cells in vitro. <i>Stem Cell Research</i> , 2014 , 13, 251-61	1.6	15
56	Photo-induced viscoelasticity in cytocompatible hydrogel substrates. <i>New Journal of Physics</i> , 2019 , 21, 045004	2.9	14
55	A synthetic elastomer based on acrylated polypropylene glycol triol with tunable modulus for tissue engineering applications. <i>Biomaterials</i> , 2010 , 31, 7937-47	15.6	14
54	The effects of silica fillers on the gelation and vitrification of highly filled epoxy-amine thermosets. <i>Macromolecular Symposia</i> , 2001 , 169, 171-177	0.8	14
53	Changing ligand number and type within nanocylindrical domains through kinetically constrained self-assembly - impacts of ligand 'redundancy' on human mesenchymal stem cell adhesion and morphology. <i>Biomaterials Science</i> , 2014 , 2, 1693-705	7.4	13

52	Use of two-step grafting to fabricate dual-functional films and site-specific functionalized scaffolds. <i>Langmuir</i> , 2015 , 31, 1746-54	4	13
51	Effect of geometric challenges on cell migration. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 999-1010	0.9	13
50	A microfluidic-based method for the transfer of biopolymer particles from an oil phase to an aqueous phase. <i>Lab on A Chip</i> , 2009 , 9, 2582-90	7.2	13
49	Combinatorial presentation of cartilage-inspired peptides on nanopatterned surfaces enables directed differentiation of human mesenchymal stem cells towards distinct articular chondrogenic phenotypes. <i>Biomaterials</i> , 2019 , 210, 105-115	15.6	12
48	Microbioreactor array screening of Wnt modulators and microenvironmental factors in osteogenic differentiation of mesenchymal progenitor cells. <i>PLoS ONE</i> , 2013 , 8, e82931	3.7	12
47	Engineering tissue tubes using novel multilayered scaffolds in the rat peritoneal cavity. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 719-27	5.4	12
46	Multivariate patterning of human pluripotent cells under perfusion reveals critical roles of induced paracrine factors in kidney organoid development. <i>Science Advances</i> , 2020 , 6, eaaw2746	14.3	12
45	Impacts of polymer/surfactant interactions on spray drift. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 500, 88-97	5.1	12
44	Fluorescent and Magnetic Mesoporous Hybrid Material: A Chemical and Biological Nanosensor for Hg(2+) Ions. <i>Scientific Reports</i> , 2016 , 6, 21820	4.9	11
43	Mode of heparin attachment to nanocrystalline hydroxyapatite affects its interaction with bone morphogenetic protein-2. <i>Biointerphases</i> , 2015 , 10, 04A308	1.8	11
42	Controlled presentation of recombinant proteins via a zinc-binding peptide-linker in two and three dimensional formats. <i>Biomaterials</i> , 2009 , 30, 6614-20	15.6	11
41	Formation of multilayered biopolymer microcapsules and microparticles in a multiphase microfluidic flow. <i>Biomicrofluidics</i> , 2012 , 6, 24125-2412516	3.2	11
40	The creation of drops in T-shaped microfluidic devices with the modified Laser IIGA technique: I. Fabrication. <i>Smart Materials and Structures</i> , 2006 , 15, S117-S123	3.4	11
39	Sintering and biocompatibility of blended elemental Ti-xNb alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 104, 103691	4.1	10
38	Ovine Lumbar Intervertebral Disc Degeneration Model Utilizing a Lateral Retroperitoneal Drill Bit Injury. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	10
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