

Luigi Ambrosio

List of Publications by Year in Descending Order

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

237
papers

8,593
citations

51
h-index

80
g-index

243
ext. papers

9,706
ext. citations

5.2
avg, IF

6.32
L-index

#	Paper	IF	Citations
237	Overview of scaffolds processing technologies 2022 , 215-262		
236	Hyaluronan-coated nanoparticles for active tumor targeting: Influence of polysaccharide molecular weight on cell uptake. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 210, 112240	6	4
235	Electrospun PCL-Based Vascular Grafts: In Vitro Tests. <i>Nanomaterials</i> , 2021 , 11,	5.4	8
234	Chitosan/hydroxyapatite nanocomposite scaffolds to modulate osteogenic and inflammatory response. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 ,	5.4	3
233	Innovative Biomaterials for the Treatment of Bone Cancer. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
232	Structural and functional properties of astrocytes on PCL based electrospun fibres. <i>Materials Science and Engineering C</i> , 2021 , 118, 111363	8.3	9
231	Glial Interfaces: Advanced Materials and Devices to Uncover the Role of Astroglial Cells in Brain Function and Dysfunction. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001268	10.1	7
230	Polyaniline nano-needles into electrospun bio active fibres support astrocyte response.. <i>RSC Advances</i> , 2021 , 11, 11347-11355	3.7	2
229	2D exfoliated black phosphorus influences healthy and cancer prostate cell behaviors. <i>Scientific Reports</i> , 2021 , 11, 5856	4.9	0
228	Zn-substituted MgSiO nanoparticles-incorporated PCL-silk fibroin composite scaffold: A multifunctional platform towards bone tissue regeneration. <i>Materials Science and Engineering C</i> , 2021 , 127, 112242	8.3	10
227	Effect of Hyaluronic Acid on the Differentiation of Mesenchymal Stem Cells into Mature Type II Pneumocytes. <i>Polymers</i> , 2021 , 13,	4.5	4
226	Tricalcium phosphate cement supplemented with boron nitride nanotubes with enhanced biological properties. <i>Materials Science and Engineering C</i> , 2020 , 114, 111044	8.3	7
225	Injectable Functional Biomaterials for Minimally Invasive Surgery. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000349	10.1	28
224	Mechanical behavior of bioactive poly(ethylene glycol) diacrylate matrices for biomedical application. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 110, 103885	4.1	13
223	Regeneration of Mineralized Bone Tissue in Anisotropic Biomimetic Sponges. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 587	5.8	4
222	Integrating Microstructured Electrospun Scaffolds in an Open Microfluidic System for Studies of Human Patient-Derived Primary Cells. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 3649-3663	5.5	5
221	Self-associating cellulose-graft-poly(E-caprolactone) to design nanoparticles for drug release. <i>Materials Science and Engineering C</i> , 2020 , 108, 110385	8.3	11

220	Complexation of Injectable Biphasic Calcium Phosphate with Phosphoserine-Presenting Dendrons with Enhanced Osteoregenerative Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37873-37884	9.5	6
219	Polycaprolactone/fluoride substituted-hydroxyapatite (PCL/FHA) nanocomposite coatings prepared by in-situ sol-gel process for dental implant applications. <i>Progress in Organic Coatings</i> , 2020 , 147, 105873	4.8	20
218	Fluorescent Nanodiamonds Embedded in Poly-ε-Caprolactone Fibers as Biomedical Scaffolds. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10814-10822	5.6	3
217	In-Situ Synthesis and Characterization of Chitosan/Hydroxyapatite Nanocomposite Coatings to Improve the Bioactive Properties of Ti6Al4V Substrates. <i>Materials</i> , 2020 , 13,	3.5	7
216	and biocompatibility and inflammation response of methacrylated and maleated hyaluronic acid for wound healing.. <i>RSC Advances</i> , 2020 , 10, 32183-32192	3.7	1
215	Osteogenic and Anti-Inflammatory Behavior of Injectable Calcium Phosphate Loaded with Therapeutic Drugs. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
214	Bioactive chitosan-based scaffolds with improved properties induced by dextran-grafted nano-maghemite and l-arginine amino acid. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1244-1252	5.4	18
213	Design of functional textile coatings via non-conventional electrofluidodynamic processes. <i>Journal of Colloid and Interface Science</i> , 2019 , 541, 367-375	9.3	23
212	Composite biomaterials for bone repair 2019 , 273-299		8
211	Novel finishing treatments of polyamide fabrics by electrofluidodynamic process to reduce microplastic release during washings. <i>Polymer Degradation and Stability</i> , 2019 , 165, 110-116	4.7	25
210	Bioactivation Routes of Gelatin-Based Scaffolds to Enhance at Nanoscale Level Bone Tissue Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 27	5.8	27
209	Composite scaffolds for bone and osteochondral defects 2019 , 297-337		1
208	Rigidity of the 1-Bakryberry Inequality and Sets of Finite Perimeter in RCD Spaces. <i>Geometric and Functional Analysis</i> , 2019 , 29, 949-1001	1.2	8
207	Osteoinductive and anti-inflammatory properties of chitosan-based scaffolds for bone regeneration. <i>Materials Science and Engineering C</i> , 2019 , 105, 110046	8.3	22
206	Investigating the Structure-Related Properties of Cellulose-Based Superabsorbent Hydrogels 2019 ,		3
205	Functional Biomolecule Delivery Systems and Bioengineering in Cartilage Regeneration. <i>Current Pharmaceutical Biotechnology</i> , 2019 , 20, 32-46	2.6	18
204	Hydrogel-based delivery of Tat-fused protein Hsp70 protects dopaminergic cells in vitro and in a mouse model of Parkinson disease. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	18
203	Mono- and Bi-Phasic Cellulose Acetate Micro-Vectors for Anti-Inflammatory Drug Delivery. <i>Pharmaceutics</i> , 2019 , 11,	6.4	4

202	Exfoliated Black Phosphorus Promotes in Vitro Bone Regeneration and Suppresses Osteosarcoma Progression through Cancer-Related Inflammation Inhibition. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9333-9342	9.5	42
201	Cu-Releasing Bioactive Glass Coatings and Their in Vitro Properties. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5812-5820	9.5	30
200	Long-Lasting Efficacy of Coatings for Bronze Artwork Conservation: The Key Role of Layered Double Hydroxide Nanocarriers in Protecting Corrosion Inhibitors from Photodegradation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7380-7384	16.4	37
199	Long-Lasting Efficacy of Coatings for Bronze Artwork Conservation: The Key Role of Layered Double Hydroxide Nanocarriers in Protecting Corrosion Inhibitors from Photodegradation. <i>Angewandte Chemie</i> , 2018 , 130, 7502-7506	3.6	
198	Gelatin/nano-hydroxyapatite hydrogel scaffold prepared by sol-gel technology as filler to repair bone defects. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2007-2019	5.4	38
197	Core/shell cellulose-based microspheres for oral administration of Ketoprofen Lysinate. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 2636-2644	3.5	9
196	Synthesis and characterization of divinyl-fumarate poly-ε-caprolactone for scaffolds with controlled architectures. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e523-e531	4.4	14
195	Collagen density gradient on three-dimensional printed poly(ε-caprolactone) scaffolds for interface tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 321-329	4.4	25
194	Additive electrospaying for scaffold functionalization 2018 , 179-203		
193	3D conduits for peripheral nerve regeneration 2018 , 329-349		4
192	Instructive proteins for tissue regeneration 2018 , 23-49		4
191	Bioinspired scaffolds for bone and neural tissue and interface engineering 2018 , 51-74		4
190	Short-Term Degradation of Bi-Component Electrospun Fibers: Qualitative and Quantitative Evaluations via AFM Analysis. <i>Journal of Functional Biomaterials</i> , 2018 , 9,	4.8	10
189	Elastomagnetic NI-PDMS nanofibers via coaxial electrospinning. <i>Materials Research Express</i> , 2018 , 5, 085029	4.7	5
188	Effect of inorganic and organic bioactive signals decoration on the biological performance of chitosan scaffolds for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 62	4.5	7
187	Macroporous alginate foams crosslinked with strontium for bone tissue engineering. <i>Carbohydrate Polymers</i> , 2018 , 202, 72-83	10.3	34
186	3D laser scanning in conjunction with surface texturing to evaluate shift and reduction of the tibiofemoral contact area after meniscectomy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 88, 41-47	4.1	9
185	Alginate Processing Routes to Fabricate Bioinspired Platforms for Tissue Engineering and Drug Delivery. <i>Springer Series in Biomaterials Science and Engineering</i> , 2018 , 101-120	0.6	4

184	Degradation and early in vitro activity of healthy hepatocytes onto bicomponent electrospun fibers. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018 , 67, 961-966	3	4
183	A Combined Approach of Double Network Hydrogel and Nanocomposites Based on Hyaluronic Acid and Poly(ethylene glycol) Diacrylate Blend. <i>Materials</i> , 2018 , 11,	3.5	17
182	Injectable strontium-doped hydroxyapatite integrated with phosphoserine-tethered poly(epsilon-lysine) dendrons for osteoporotic bone defect repair. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 7974-7984	7.3	23
181	Antimicrobial Imidazolium Ionic Liquids for the Development of Minimal Invasive Calcium Phosphate-Based Bionanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42766-42776	9.5	29
180	Bioactive composites based on double network approach with tailored mechanical, physico-chemical, and biological features. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 3079-3089	5.4	18
179	Perimeter as relaxed Minkowski content in metric measure spaces. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2017 , 153, 78-88	1.3	9
178	3D additive-manufactured nanocomposite magnetic scaffolds: Effect of the application mode of a time-dependent magnetic field on hMSCs behavior. <i>Bioactive Materials</i> , 2017 , 2, 138-145	16.7	55
177	5-Azacytidine-mediated hMSC behavior on electrospun scaffolds for skeletal muscle regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 2551-2561	5.4	19
176	Electrospun polycaprolactone nanofibres decorated by drug loaded chitosan nano-reservoirs for antibacterial treatments. <i>Nanotechnology</i> , 2017 , 28, 505103	3.4	20
175	Potential contact and intraocular lenses based on hydrophilic/hydrophobic sulfonated syndiotactic polystyrene membranes. <i>Journal of King Saud University - Science</i> , 2017 , 29, 487-493	3.6	3
174	Polycaprolactone: Synthesis, Properties, and Applications 2017 , 1-36		40
173	Well posedness of ODEs and continuity equations with nonsmooth vector fields, and applications. <i>Revista Matematica Complutense</i> , 2017 , 30, 427-450	0.8	9
172	Graphene-based masterbatch obtained via modified polyvinyl alcohol liquid-shear exfoliation and its application in enhanced polymer composites. <i>Materials and Design</i> , 2017 , 134, 103-110	8.1	15
171	Eumelanin Coated PLA Electrospun Micro Fibers as Bioinspired Cradle for SH-SY5Y Neuroblastoma Cells Growth and Maturation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40070-40076	9.5	14
170	Microwave-induced porosity and bioactivation of chitosan-PEGDA scaffolds: morphology, mechanical properties and osteogenic differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 86-98	4.4	3
169	High Amorphous Vinyl Alcohol-Silica Bionanocomposites: Tuning Interface Interactions with Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1094-1105	8.3	16
168	Effect of topical antiinflammatory drugs on mechanical behavior of rabbit cornea. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017 , 15, e142-e148	1.8	2
167	Atomic Force Microscopy: A Powerful Tool to Address Scaffold Design in Tissue Engineering. <i>Journal of Functional Biomaterials</i> , 2017 , 8,	4.8	65

166	Optimization of Bicomponent Electrospun Fibers for Therapeutic Use: Post-Treatments to Improve Chemical and Biological Stability. <i>Journal of Functional Biomaterials</i> , 2017 , 8,	4.8	9
165	MSCs and Innovative Injectable Biomaterials in Dentistry. <i>Pancreatic Islet Biology</i> , 2017 , 43-61	0.4	1
164	Ibuprofen-loaded poly(trimethylene carbonate-co-ε-caprolactone) electrospun fibres for nerve regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, E154-66	4.4	38
163	Behaviour of human mesenchymal stem cells on chemically synthesized HA-PCL scaffolds for hard tissue regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, E147-54	4.4	35
162	Viscoelastic Properties of Rapid Prototyped Magnetic Nanocomposite Scaffolds for Osteochondral Tissue Regeneration. <i>Procedia CIRP</i> , 2016 , 49, 76-82	1.8	18
161	Bone Tissue Engineering: 3D PCL-based Nanocomposite Scaffolds with Tailored Properties. <i>Procedia CIRP</i> , 2016 , 49, 51-54	1.8	24
160	Exploring Process Technologies to Fabricate Fibrous Scaffolds and Bio-Textiles for Biomedical Applications. <i>Advances in Science and Technology</i> , 2016 , 100, 31-37	0.1	2
159	Fundamental Properties of Bioceramics and Biocomposites 2016 , 35-58		4
158	Cellulose-based porous scaffold for bone tissue engineering applications: Assessment of hMSC proliferation and differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 726-733	5.4	26
157	Needle-like ion-doped hydroxyapatite crystals influence osteogenic properties of PCL composite scaffolds. <i>Biomedical Materials (Bristol)</i> , 2016 , 11, 015018	3.5	15
156	Bio-safe processing of polylactic-co-caprolactone and polylactic acid blends to fabricate fibrous porous scaffolds for in vitro mesenchymal stem cells adhesion and proliferation. <i>Materials Science and Engineering C</i> , 2016 , 63, 512-21	8.3	18
155	Spontaneous arrangement of a tumor targeting hyaluronic acid shell on irinotecan loaded PLGA nanoparticles. <i>Carbohydrate Polymers</i> , 2016 , 140, 400-7	10.3	28
154	Bicomponent electrospun scaffolds to design extracellular matrix tissue analogs. <i>Expert Review of Medical Devices</i> , 2016 , 13, 83-102	3.5	43
153	Progress and Perspectives in the Management of Wound Infections 2016 ,		1
152	Electro-Active Polymers (EAPs): A Promising Route to Design Bio-Organic/Bioinspired Platforms with on Demand Functionalities. <i>Polymers</i> , 2016 , 8,	4.5	49
151	Chitosan Microgels and Nanoparticles via Electrofluidodynamic Techniques for Biomedical Applications. <i>Gels</i> , 2016 , 2,	4.2	12
150	Scanning Small- and Wide-Angle X-ray Scattering Microscopy Selectively Probes HA Content in Gelatin/Hydroxyapatite Scaffolds for Osteochondral Defect Repair. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8728-36	9.5	17
149	Stimuli-responsive chitosan/poly (N-isopropylacrylamide) semi-interpenetrating polymer networks: effect of pH and temperature on their rheological and swelling properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 109	4.5	13

148	Borate cross-linked graphene oxide-chitosan as robust and high gas barrier films. <i>Nanoscale</i> , 2016 , 8, 10783-91	7.7	49
147	Pure titanium particle loaded nanocomposites: study on the polymer/filler interface and hMSC biocompatibility. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 153	4.5	5
146	Micro- and nanocarriers by electrofluidodynamic technologies for cell and molecular therapies. <i>Process Biochemistry</i> , 2016 , 51, 2143-2154	4.8	24
145	From 3D Hierarchical Scaffolds for Tissue Engineering to Advanced Hydrogel-Based and Complex Devices for in situ Cell or Drug Release. <i>Procedia CIRP</i> , 2016 , 49, 72-75	1.8	5
144	Metal-Based Antibacterial Substrates for Biomedical Applications. <i>Biomacromolecules</i> , 2015 , 16, 1873-856.9		117
143	Ionic liquids as dynamic templating agents for sol-gel silica systems: synergistic anion and cation effect on the silica structured growth. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 76, 414-427	2.3	16
142	Collagen-low molecular weight hyaluronic acid semi-interpenetrating network loaded with gelatin microspheres for cell and growth factor delivery for nucleus pulposus regeneration. <i>Acta Biomaterialia</i> , 2015 , 20, 10-21	10.8	83
141	Polymer-based platforms by electric field-assisted techniques for tissue engineering and cancer therapy. <i>Expert Review of Medical Devices</i> , 2015 , 12, 113-29	3.5	45
140	Gas-Barrier Hybrid Coatings by the Assembly of Novel Poly(vinyl alcohol) and Reduced Graphene Oxide Layers through Cross-Linking with Zirconium Adducts. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22678-85	9.5	31
139	Fundamental Properties of Bioceramics and Biocomposites 2015 , 1-19		1
138	3D fibre deposition and stereolithography techniques for the design of multifunctional nanocomposite magnetic scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 250	4.5	53
137	Towards the Design of 3D Fiber-Deposited Poly(ϵ -caprolactone)/Iron-Doped Hydroxyapatite Nanocomposite Magnetic Scaffolds for Bone Regeneration. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 1236-46	4	97
136	Hydrogels for central nervous system therapeutic strategies. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015 , 229, 905-16	1.7	10
135	Improving surface and transport properties of macroporous hydrogels for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 1095-105	5.4	9
134	Galactose grafting on poly(ϵ -caprolactone) substrates for tissue engineering: a preliminary study. <i>Carbohydrate Research</i> , 2015 , 405, 39-46	2.9	23
133	Electro fluid dynamic techniques to design instructive biomaterials for tissue engineering and drug delivery 2015 ,		2
132	Additive electrospaying: a route to process electrospun scaffolds for controlled molecular release. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 1359-1369	3.2	33
131	Nanoparticle-Integrated Hydrogels as Multifunctional Composite Materials for Biomedical Applications. <i>Gels</i> , 2015 , 1, 162-178	4.2	74

130	Hyaluronic Acid Based Hydrogels for Regenerative Medicine Applications. <i>BioMed Research International</i> , 2015 , 2015, 871218	3	69
129	Monolithic polymeric aerogels with VOCs sorbent nanoporous crystalline and water sorbent amorphous phases. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1318-26	9.5	21
128	Effects on growth and osteogenic differentiation of mesenchymal stem cells by the strontium-added sol-gel hydroxyapatite gel materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 90	4.5	37
127	Bioactivity and bone healing properties of biomimetic porous composite scaffold: in vitro and in vivo studies. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2932-41	5.4	25
126	The role of the surface on microglia function: implications for central nervous system tissue engineering. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	17
125	Chemical and Physical Properties of Polymers for Biomedical Use 2015 , 67-90		
124	Design of electrosprayed non-spherical poly (L-lactide-co-glicolide) microdevices for sustained drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 383-90	4.5	16
123	The role of reduced graphene oxide on chemical, mechanical and barrier properties of natural rubber composites. <i>Composites Science and Technology</i> , 2014 , 102, 74-81	8.6	98
122	A comparison of the performance of mono- and bi-component electrospun conduits in a rat sciatic model. <i>Biomaterials</i> , 2014 , 35, 8970-82	15.6	53
121	Optimization of fully aligned bioactive electrospun fibers for "in vitro" nerve guidance. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 2323-32	4.5	48
120	Large defect-tailored composite scaffolds for in vivo bone regeneration. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 715-27	2.9	10
119	Tailoring assembly of reduced graphene oxide nanosheets to control gas barrier properties of natural rubber nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2230-4	9.5	85
118	Poly(Epsilon-lysine) dendrons tethered with phosphoserine increase mesenchymal stem cell differentiation potential of calcium phosphate gels. <i>Tissue Engineering - Part A</i> , 2014 , 20, 474-85	3.9	11
117	Polymeric hydrogels for burn wound care: Advanced skin wound dressings and regenerative templates. <i>Burns and Trauma</i> , 2014 , 2, 153-61		175
116	Preparation and characterization of cellulose-based foams via microwave curing. <i>Interface Focus</i> , 2014 , 4, 20130053	3.9	28
115	Reverse engineering of mandible and prosthetic framework: Effect of titanium implants in conjunction with titanium milled full arch bridge prostheses on the biomechanics of the mandible. <i>Journal of Biomechanics</i> , 2014 , 47, 3825-9	2.9	15
114	MgCHA particles dispersion in porous PCL scaffolds: in vitro mineralization and in vivo bone formation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014 , 8, 291-303	4.4	27
113	Scaffold Design for Bone Tissue Engineering: From Micrometric to Nanometric Level. <i>Springer Series in Biomaterials Science and Engineering</i> , 2013 , 1-16	0.6	1

112	Human skin-derived keratinocytes and fibroblasts co-cultured on 3D poly(ϵ -caprolactone) scaffold support in vitro HSC differentiation into T-lineage committed cells. <i>International Immunology</i> , 2013 , 25, 703-14	4.9	14
111	Glucosamine grafting on poly(ϵ -caprolactone): a novel glycated polyester as a substrate for tissue engineering. <i>RSC Advances</i> , 2013 , 3, 6286	3.7	23
110	Conductive PANi/PEGDA macroporous hydrogels for nerve regeneration. <i>Advanced Healthcare Materials</i> , 2013 , 2, 218-27	10.1	149
109	Systematic Analysis of Injectable Materials and 3D Rapid Prototyped Magnetic Scaffolds: From CNS Applications to Soft and Hard Tissue Repair/Regeneration. <i>Procedia Engineering</i> , 2013 , 59, 233-239		55
108	Thermoset composite hydrogels for bone/intervertebral disc interface. <i>Materials Letters</i> , 2013 , 110, 249-252	3.5	5
107	PLDLA/PCL-T Scaffold for Meniscus Tissue Engineering. <i>BioResearch Open Access</i> , 2013 , 2, 138-47	2.4	74
106	Rheological and mechanical properties of acellular and cell-laden methacrylated gellan gum hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 3438-46	5.4	74
105	Basic protocols to investigate hMSC behavior onto electrospun fibers. <i>Methods in Molecular Biology</i> , 2013 , 1058, 109-17	1.4	2
104	Micro/Nanotexturing and Bioactivation Strategies to Design Composite Scaffolds and ECM-Like Analogues. <i>Macromolecular Symposia</i> , 2013 , 331-332, 65-70	0.8	7
103	Development and analysis of semi-interpenetrating polymer networks for brain injection in neurodegenerative disorders. <i>International Journal of Artificial Organs</i> , 2013 , 36, 762-74	1.9	9
102	Hydrogel-based nanocomposites and mesenchymal stem cells: a promising synergistic strategy for neurodegenerative disorders therapy. <i>Scientific World Journal, The</i> , 2013 , 2013, 270260	2.2	20
101	In vivo lamellar bone formation in fibre coated MgCHA-PCL-composite scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 117-28	4.5	17
100	Rheological characterization of hyaluronic acid derivatives as injectable materials toward nucleus pulposus regeneration. <i>Journal of Biomaterials Applications</i> , 2012 , 26, 745-59	2.9	56
99	Tissue engineering for total meniscal substitution: animal study in sheep model--results at 12 months. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1573-82	3.9	88
98	Additive manufacturing of wet-spun polymeric scaffolds for bone tissue engineering. <i>Biomedical Microdevices</i> , 2012 , 14, 1115-27	3.7	100
97	Binary system thermodynamics to control pore architecture of PCL scaffold via temperature-driven phase separation process. <i>Journal of Biomaterials Applications</i> , 2012 , 27, 241-54	2.9	18
96	Calorimetric and thermomechanical properties of titanium-based orthodontic wires: DSC-DMA relationship to predict the elastic modulus. <i>Journal of Biomaterials Applications</i> , 2012 , 26, 829-44	2.9	18
95	Effect of surface fluorination of TiO ₂ particles on photocatalytic activity of a hybrid multilayer coating obtained by sol-gel method. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 150-7	9.5	19

94	Soft Tissue Repair and Regeneration: Composite Materials Toward the Design of Advanced Prostheses and Scaffolds 2012 , 1		
93	Biomimetic strategies for bone repair and regeneration. <i>Journal of Functional Biomaterials</i> , 2012 , 3, 688-705	4.85	39
92	Design of injectable organic-inorganic hybrid for bone tissue repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2063-70	5.4	27
91	In vitro mineralization and bone osteogenesis in poly(ϵ -caprolactone)/gelatin nanofibers. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 3008-19	5.4	46
90	In silico evaluation of a new composite disc substitute with a L3-L5 lumbar spine finite element model. <i>European Spine Journal</i> , 2012 , 21 Suppl 5, S675-87	2.7	18
89	Design of porous three-dimensional PDLA/nano-hap composite scaffolds using stereolithography. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 249-58	1.8	38
88	Biodegradable microparticles and nanoparticles by electrospraying techniques. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 191-6	1.8	19
87	Osteogenic differentiation and mineralization in fibre-reinforced tubular scaffolds: theoretical study and experimental evidences. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 2201-12	4.1	19
86	Synthesis and characterization of soybean-based hydrogels with an intrinsic activity on cell differentiation. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1932-9	3.9	19
85	Modeling of phase separation mechanism in polycaprolactone/dioxane binary systems. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 237-42	1.8	1
84	Proliferation and osteoblastic differentiation of hMSCs on cellulose-based hydrogels. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 302-7	1.8	33
83	Hydrogel-Based Platforms for the Regeneration of Osteochondral Tissue and Intervertebral Disc. <i>Polymers</i> , 2012 , 4, 1590-1612	4.5	44
82	Design of bioactive electrospun scaffolds for bone tissue engineering. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 223-8	1.8	13
81	Convergence of Wigner Transforms in a Semiclassical Limit. <i>Abel Symposia</i> , 2012 , 1-11	0.9	1
80	The Flow Associated to Weakly Differentiable Vector Fields: Recent Results and Open Problems. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2011 , 181-193	0.5	5
79	Layer-by-layer self-assembly of chitosan and poly(ϵ -glutamic acid) into polyelectrolyte complexes. <i>Biomacromolecules</i> , 2011 , 12, 4183-95	6.9	92
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