Wojciech Swieszkowski

List of Publications by Year
in descending order

179 papers	6,686 citations	66315 42 h-index	79644 73 g-index
197 all docs	197 docs citations	197 times ranked	9280 citing authors

#	Article	IF	Citations
1	Chemical Polishing of Additively Manufactured, Porous, Nickelâ€“Titanium Skeletal Fixation Plates. 3D Printing and Additive Manufacturing, 2022, 9, 269-277.	1.4	16
2	Methods for fabricating oxygen releasing biomaterials. Journal of Drug Targeting, 2022, 30, 188-199.	2.1	16
3	In silico model of bevacizumab sustained release from intravitreal administrated PLGA drug-loaded microspheres. Materials Letters, 2022, 307, 131080.	1.3	6
4	Naturally prefabricated 3D chitinous skeletal scaffold of marine demosponge origin, biomineralized ex vivo as a functional biomaterial. Carbohydrate Polymers, 2022, 275, 118750.	5.1	12
5	Novel design for an additively manufactured nozzle to produce tubular scaffolds via fused filament fabrication. Additive Manufacturing, 2022, 49, 102467.	1.7	5
6	In situ alloying of NiTi: Influence of laser powder bed fusion (LBPF) scanning strategy on chemical composition. Materials Today Communications, 2022, 30, 103007.	0.9	10
7	Biodegradable Fiducial Markers for Bimodal Near-Infrared Fluorescence- and X-ray-Based Imaging. ACS Biomaterials Science and Engineering, 2022, 8, 859-870.	2.6	3
8	Hydrogel-Based Fiber Biofabrication Techniques for Skeletal Muscle Tissue Engineering. ACS Biomaterials Science and Engineering, 2022, 8, 379-405.	2.6	57
9	Modified Histopathological Protocol for Poly-É›-Caprolactone Scaffolds Preserving Their Trabecular, Honeycomb-like Structure. Materials, 2022, 15, 1732.	1.3	1
10	In vitro and in vivo assessment of a <scp>3D</scp> printable gelatin methacrylate hydrogel for bone regeneration applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 2133-2145.	1.6	17
11	Heat Treatment of NiTi Alloys Fabricated Using Laser Powder Bed Fusion (LPBF) from Elementally Blended Powders. Materials, 2022, 15, 3304.	1.3	11
12	The role of solvent solubility parameters in the formation of intermittent low and high molecular weight polystyrene rich structures in a thin film resulting from water vapor induced phase separation. Materials Letters, 2022, 321, 132390.	1.3	4
13	A flexible immunosensor based on the electrochemically rGO with Au SAM using half-antibody for collagen type I sensing. Applied Surface Science Advances, 2022, 9, 100258.	2.9	13
14	From Matrix Vesicles to Miniature Rocks: Evolution of Calcium Deposits in Calf Costochondral Junctions. Cartilage, 2021, 13, 326S-335S.	1.4	3
15	Multifunctional composite combining chitosan microspheres for drug delivery embedded in shape memory polyester-urethane matrix. Composites Science and Technology, 2021, 201, 108481.	3.8	17
16	Fibrous Systems as Potential Solutions for Tendon and Ligament Repair, Healing, and Regeneration. Advanced Healthcare Materials, 2021, 10, e2001305.	3.9	35
17	Biofabricating murine and human myoâ€substitutes for rapid volumetric muscle loss restoration. EMBO Molecular Medicine, 2021, 13, e12778.	3.3	29
18	Adhesive properties of graphene oxide and its modification with RGD peptide towards L929 cells. Materials Today Communications, 2021, 26, 102056.	0.9	4

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19	Tumor Extracellular Matrix Stiffness Promptly Modulates the Phenotype and Gene Expression of Infiltrating T Lymphocytes. International Journal of Molecular Sciences, 2021, 22, 5862.	1.8	25
20	Bioactive Nanofiber-Based Conduits in a Peripheral Nerve Gap Managementâ€"An Animal Model Study. International Journal of Molecular Sciences, 2021, 22, 5588.	1.8	14
21	Coupling Additive Manufacturing with Hot Melt Extrusion Technologies to Validate a Ventilator-Associated Pneumonia Mouse Model. Pharmaceutics, 2021, 13, 772.	2.0	7
22	Drug-Releasing Antibacterial Coating Made from Nano-Hydroxyapatite Using the Sonocoating Method. Nanomaterials, 2021, 11, 1690.	1.9	19
23	Biodegradable ceramic matrix composites made from nanocrystalline hydroxyapatite and silk fibers via crymilling and uniaxial pressing. Materials Letters, 2021, 293, 129672.	1.3	5
24	Waterï»¿ vapor induced self-assembly of islands/honeycomb structure by secondary phase separation in polystyrene solution with bimodal molecular weight distribution. Scientific Reports, 2021, 11, 13299.	1.6	7
25	Morphology and Chemical Purity of Water Suspension of Graphene Oxide FLAKES Aged for 14 Months in Ambient Conditions. A Preliminary Study. Materials, 2021, 14, 4108.	1.3	8
26	Investigation into morphological and electromechanical surface properties of reduced-graphene-oxide-loaded composite fibers for bone tissue engineering applications: A comprehensive nanoscale study using atomic force microscopy approach. Micron, 2021, 146, 103072.	1.1	11
27	Impedimetric and Plasmonic Sensing of Collagen I Using a Half-Antibody-Supported, Au-Modified, Self-Assembled Monolayer System. Biosensors, 2021, 11, 227.	2.3	6
28	Plasma Modification of Carbon Coating Produced by RF CVD on Oxidized NiTi Shape Memory Alloy under Glow-Discharge Conditions. Materials, 2021, 14, 4842.	1.3	2
29	Multimaterial bioprinting and combination of processing techniques towards the fabrication of biomimetic tissues and organs. Biofabrication, 2021, 13, 042002.	3.7	42
30	Tackling Current Biomedical Challenges With Frontier Biofabrication and Organ-On-A-Chip Technologies. Frontiers in Bioengineering and Biotechnology, 2021, 9, 732130.	2.0	11
31	High-resolution microscopy assisted mechanical modeling of ultrafine electrospun network. Polymer, 2021, 230, 124050.	1.8	1
32	The dispersion of viscoelastic properties of fascicle bundles within the tendon results from the presence of interfascicular matrix and flow of body fluids. Materials Science and Engineering C, 2021, 130, 112435.	3.8	9
33	Alginate-based tissue-specific bioinks for multi-material 3D-bioprinting of pancreatic islets and blood vessels: A step towards vascularized pancreas grafts. Bioprinting, 2021, 24, e00163.	2.9	25
34	Photocurable Biopolymers for Coaxial Bioprinting. Methods in Molecular Biology, 2021, 2147, 45-54.	0.4	3
35	Biological and Corrosion Evaluation of In Situ Alloyed NiTi Fabricated through Laser Powder Bed Fusion (LPBF). International Journal of Molecular Sciences, 2021, 22, 13209.	1.8	5
36	Internal nanocrystalline structure and stiffness alterations of electrospun polycaprolactone-based mats after six months of in vitro degradation. An atomic force microscopy assay. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 101, 103437.	1.5	13

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37	Mechanical properties of hybrid triphasic scaffolds for osteochondral tissue engineering. Materials Letters, 2020, 261, 126893.	1.3	14
38	Three-dimensional printing of chemically crosslinked gelatin hydrogels for adipose tissue engineering. Biofabrication, 2020, 12, 025001.	3.7	64
39	The effect of introduction of filament shift on degradation behaviour of PLGA- and PLCL-based scaffolds fabricated via additive manufacturing. Polymer Degradation and Stability, 2020, 171, 109030.	2.7	21
40	Studies on enzymatic degradation of multifunctional composite consisting of chitosan microspheres and shape memory polyurethane matrix. Polymer Degradation and Stability, 2020, 182, 109392.	2.7	5
41	Cholesteryl Ester Liquid Crystal Nanofibers for Tissue Engineering Applications. , 2020, 2, 1067-1073.		23
42	Biocompatibility of a novel heat-treated and ceramic-coated magnesium alloy (Mgâ€“1.2Znâ€“0.5Caâ€“0.5Mn) for resorbable skeletal fixation devices. MRS Communications, 2020, 10, 467-474.	0.8	6
43	3D-Printed Drug Delivery Systems: The Effects of Drug Incorporation Methods on Their Release and Antibacterial Efficiency. Materials, 2020, 13, 3364.	1.3	12
44	Comparison of Dental Stone Models and Their 3D Printed Acrylic Replicas for the Accuracy and Mechanical Properties. Materials, 2020, 13, 4066.	1.3	23
45	The effect of diameter of fibre on formation of hydrogen bonds and mechanical properties of 3D-printed PCL. Materials Science and Engineering C, 2020, 114, 111072.	3.8	37
46	Extrusion and Microfluidicâ€Based Bioprinting to Fabricate Biomimetic Tissues and Organs. Advanced Materials Technologies, 2020, 5, 1901044.	3.0	110
47	Preparation of a Ceramic Matrix Composite Made of Hydroxyapatite Nanoparticles and Polylactic Acid by Consolidation of Composite Granules. Nanomaterials, 2020, 10, 1060.	1.9	10
48	The combined antibacterial and anticancer properties of nano Ce-containing Mg-phosphate ceramic. Life Sciences, 2020, 257, 117999.	2.0	18
49	Irradiation with 365 nm and 405 nm wavelength shows differences in DNA damage of swine pancreatic islets. PLoS ONE, 2020, 15, e0235052.	1.1	23
50	Multiscale analysis of viscoelastic properties, topography and internal structure of a biodegradable thermo-responsive shape memory polyurethane. Polymer, 2020, 191, 122273.	1.8	5
51	Scaffold vascularization method using an adipose-derived stem cell (ASC)-seeded scaffold prefabricated with a flow-through pedicle. Stem Cell Research and Therapy, 2020, 11, 34.	2.4	8
52	Biological properties of a novel Î²-Ti alloy with a low youngâ€™s modulus subjected to cold rolling. Applied Surface Science, 2020, 511, 145523.	3.1	15
53	The effect of melt electrospun writing fiber orientation onto cellular organization and mechanical properties for application in Anterior Cruciate Ligament tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103631.	1.5	35
54	A two-compartment bone tumor model to investigate interactions between healthy and tumor cells. Biomedical Materials (Bristol), 2020, 15, 035007.	1.7	4

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55	Processing of (Co)Poly(2-oxazoline)s by Electrospinning and Extrusion from Melt and the Postprocessing Properties of the (Co)Polymers. Polymers, 2020, 12, 295.	2.0	11
56	Effect of laser functionalization of titanium on bioactivity and biological response. Applied Surface Science, 2020, 525, 146492.	3.1	6
57	Microfluidics in biofabrication. Biofabrication, 2020, 12, 030201.	3.7	10
58	Tripolyphosphate-Crosslinked Chitosan/Gelatin Biocomposite Ink for 3D Printing of Uniaxial Scaffolds. Frontiers in Bioengineering and Biotechnology, 2020, 8, 400.	2.0	46
59	Repurposing biodegradable tissue engineering scaffolds for localized chemotherapeutic delivery. Journal of Biomedical Materials Research - Part A, 2020, 108, 1144-1158.	2.1	8
60	New approach to amorphization of alloys with low glass forming ability via selective laser melting. Journal of Alloys and Compounds, 2019, 771, 769-776.	2.8	43
61	Mechano-signalling, induced by fullerene C₆₀ nanofilms, arrests the cell cycle in the G2/M phase and decreases proliferation of liver cancer cells . International Journal of Nanomedicine, 2019, Volume 14, 6197-6215.	3.3	24
62	Alignment and bioactive molecule enrichment of bio-composite scaffolds towards peripheral nerve tissue engineering. Journal of Materials Chemistry B, 2019, 7, 4509-4519.	2.9	25
63	Engineering Human-Scale Artificial Bone Grafts for Treating Critical-Size Bone Defects. ACS Applied Bio Materials, 2019, 2, 5077-5092.	2.3	12
64	Comparison of adipose stem cells sources from various locations of rat body for their application for seeding on polymer scaffolds. Journal of Biomaterials Science, Polymer Edition, 2019, 30, 376-397.	1.9	8
65	In vivo and in vitro study of a novel nanohydroxyapatite sonocoated scaffolds for enhanced bone regeneration. Materials Science and Engineering C, 2019, 99, 669-684.	3.8	49
66	3D bioprinting of hydrogel constructs with cell and material gradients for the regeneration of full-thickness chondral defect using a microfluidic printing head. Biofabrication, 2019, 11, 044101.	3.7	120
67	Determining the effectiveness of vitamin C in skin care by atomic force microscope. Microscopy Research and Technique, 2019, 82, 1430-1437.	1.2	7
68	3D Bioprinting in Skeletal Muscle Tissue Engineering. Small, 2019, 15, e1805530.	5.2	192
69	Mechanical and Biochemical Stimulation of 3D Multilayered Scaffolds for Tendon Tissue Engineering. ACS Biomaterials Science and Engineering, 2019, 5, 2953-2964.	2.6	66
70	Impact of the Balloon Inflation Time and Pattern on the Coronary Stent Expansion. Journal of Interventional Cardiology, 2019, 2019, 1-10.	0.5	6
71	3Dâ€Printing of Functionally Graded Porous Materials Using Onâ€Demand Reconfigurable Microfluidics. Angewandte Chemie - International Edition, 2019, 58, 7620-7625.	7.2	73
72	Engineering biological gradients. Journal of Applied Biomaterials and Functional Materials, 2019, 17, 228080001982902.	0.7	19

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73	Detection of Circulating Tumor Cells Using Membrane-Based SERS Platform: A New Diagnostic Approach for â€˜Liquid Biopsyâ€™. Nanomaterials, 2019, 9, 366.	1.9	38
74	Enhancing X-ray Attenuation of 3D Printed Gelatin Methacrylate (GelMA) Hydrogels Utilizing Gold Nanoparticles for Bone Tissue Engineering Applications. Polymers, 2019, 11, 367.	2.0	46
75	Aligned Cellâ€Laden Yarns: Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cellâ€Laden Hydrogel Yarns (Adv. Healthcare Mater. 7/2019). Advanced Healthcare Materials, 2019, 8, 1970025.	3.9	1
76	Characterization and Optimization of the Seeding Process of Adipose Stem Cells on the Polycaprolactone Scaffolds. Stem Cells International, 2019, 2019, 1-17.	1.2	15
77	3Dâ€Printing of Functionally Graded Porous Materials Using Onâ€Demand Reconfigurable Microfluidics. Angewandte Chemie, 2019, 131, 7702-7707.	1.6	6
78	3D bioprinted hydrogel model incorporating <i>Î²</i> -tricalcium phosphate for calcified cartilage tissue engineering. Biofabrication, 2019, 11, 035016.	3.7	82
79	Tuning the Wettability of a Thin Polymer Film by Gradually Changing the Geometry of Nanoscale Pore Edges. Langmuir, 2019, 35, 5987-5996.	1.6	11
80	Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cellâ€Laden Hydrogel Yarns. Advanced Healthcare Materials, 2019, 8, e1801218.	3.9	84
81	3D Diatomâ€"Designed and Selective Laser Melting (SLM) Manufactured Metallic Structures. Scientific Reports, 2019, 9, 19777.	1.6	15
82	Formation of calcium phosphate coatings within polycaprolactone scaffolds by simple, alkaline phosphatase based method. Materials Science and Engineering C, 2019, 96, 319-328.	3.8	21
83	Surface Modification of 3D Printed Polycaprolactone Constructs via a Solvent Treatment: Impact on Physical and Osteogenic Properties. ACS Biomaterials Science and Engineering, 2019, 5, 318-328.	2.6	38
84	Co-axial wet-spinning in 3D bioprinting: state of the art and future perspective of microfluidic integration. Biofabrication, 2019, 11, 012001.	3.7	75
85	X-ray physics-based CT-to-composition conversion applied to a tissue engineering scaffold, enabling multiscale simulation of its elastic behavior. Materials Science and Engineering C, 2019, 95, 389-396.	3.8	8
86	The influence of chemical polishing of titanium scaffolds on their mechanical strength and in-vitro cell response. Materials Science and Engineering C, 2019, 95, 428-439.	3.8	73
87	Drug delivery systems and materials for wound healing applications. Advanced Drug Delivery Reviews, 2018, 127, 138-166.	6.6	512
88	Nanobead-on-string composites for tendon tissue engineering. Journal of Materials Chemistry B, 2018, 6, 3116-3127.	2.9	49
89	Structure and physico-mechanical properties of low temperature plasma treated electrospun nanofibrous scaffolds examined with atomic force microscopy. Micron, 2018, 107, 79-84.	1.1	27
90	Tissue Regeneration: A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics (Adv. Funct. Mater. 3/2018). Advanced Functional Materials, 2018, 28, 1870021.	7.8	6

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91	Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering. Advanced Functional Materials, 2018, 28, 1800874.	7.8	32
92	The influence of carbon-encapsulated iron nanoparticles on elastic modulus of living human mesenchymal stem cells examined by atomic force microscopy. Micron, 2018, 108, 41-48.	1.1	21
93	Effect of hydroxyapatite nanoparticles addition on structure properties of poly(<scp>l</scp>â€lactideâ€<i>co</i>â€glycolide) After gamma sterilization. Polymer Composites, 2018, 39, 1023-1031.	2.3	8
94	Three-dimensional printed polycaprolactone-based scaffolds provide an advantageous environment for osteogenic differentiation of human adipose-derived stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e473-e485.	1.3	46
95	Gelatin methacrylate scaffold for bone tissue engineering: The influence of polymer concentration. Journal of Biomedical Materials Research - Part A, 2018, 106, 201-209.	2.1	122
96	A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics. Advanced Functional Materials, 2018, 28, 1703437.	7.8	152
97	Characterization and influence of hydroxyapatite nanopowders on living cells. Beilstein Journal of Nanotechnology, 2018, 9, 3079-3094.	1.5	44
98	Micro and nanoscale characterization of poly(DL-lactic-co-glycolic acid) films subjected to the L929 cells and the cyclic mechanical load. Micron, 2018, 115, 64-72.	1.1	12
99	Solventless Conducting Paste Based on Graphene Nanoplatelets for Printing of Flexible, Standalone Routes in Room Temperature. Nanomaterials, 2018, 8, 829.	1.9	6
100	Unrecoverable bi-products of drilling titanium alloy and tantalum metal implants: a pilot study. HIP International, 2018, 28, 531-534.	0.9	3
101	Energy Harvesting: Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering (Adv. Funct. Mater. 20/2018). Advanced Functional Materials, 2018, 28, 1870133.	7.8	4
102	Translational Application of Microfluidics and Bioprinting for Stem Cell-Based Cartilage Repair. Stem Cells International, 2018, 2018, 1-14.	1.2	19
103	The Influence of Selective Laser Melting (SLM) Process Parameters on In-Vitro Cell Response. International Journal of Molecular Sciences, 2018, 19, 1619.	1.8	45
104	3D Printing of Thermoresponsive Polyisocyanide (PIC) Hydrogels as Bioink and Fugitive Material for Tissue Engineering. Polymers, 2018, 10, 555.	2.0	38
105	The Effect of Anti-aging Peptides on Mechanical and Biological Properties of HaCaT Keratinocytes. International Journal of Peptide Research and Therapeutics, 2018, 24, 577-587.	0.9	14
106	Multi-scale characterization and biological evaluation of composite surface layers produced under glow discharge conditions on NiTi shape memory alloy for potential cardiological application. Micron, 2018, 114, 14-22.	1.1	14
107	Investigation of mechanical properties of porous composite scaffolds with tailorable degradation kinetics after <i>in vitro</i> degradation using digital image correlation. Polymer Composites, 2017, 38, 2402-2410.	2.3	11
108	Microstructure and nanomechanical properties of single stalks from diatom <i>Didymosphenia geminata</i> and their change due to adsorption of selected metal ions. Journal of Phycology, 2017, 53, 880-888.	1.0	17

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109	Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers inÂvitro and inÂvivo. Biomaterials, 2017, 131, 98-110.	5.7	252
110	Naturally derived proteins and glycosaminoglycan scaffolds for tissue engineering applications. Materials Science and Engineering C, 2017, 78, 1277-1299.	3.8	82
111	PLA short sub-micron fiber reinforcement of 3D bioprinted alginate constructs for cartilage regeneration. Biofabrication, 2017, 9, 044105.	3.7	88
112	Preparation and enhanced mechanical properties of hydroxyapatite hybrid hydrogels via novel photocatalytic polymerization. Journal of Polymer Research, 2017, 24, 1.	1.2	8
113	Development of Ce-doped TiO2 activated by X-ray irradiation for alternative cancer treatment. Ceramics International, 2017, 43, 12675-12683.	2.3	26
114	Microstructure and mechanical properties investigation of CP titanium processed by selective laser melting (SLM). Journal of Materials Processing Technology, 2017, 241, 13-23.	3.1	141
115	Influence of SaOS-2 cells on corrosion behavior of cast Mg-2.0Zn0.98Mn magnesium alloy. Colloids and Surfaces B: Biointerfaces, 2017, 150, 288-296.	2.5	12
116	Computer aided design of architecture of degradable tissue engineering scaffolds. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 1623-1632.	0.9	19
117	Laser and Electron Beam Additive Manufacturing Methods of Fabricating Titanium Bone Implants. Applied Sciences (Switzerland), 2017, 7, 657.	1.3	180
118	Post Processing and Biological Evaluation of the Titanium Scaffolds for Bone Tissue Engineering. Materials, 2016, 9, 197.	1.3	73
119	Influence of internal pore architecture on biological and mechanical properties of threeâ€dimensional fiber deposited scaffolds for bone regeneration. Journal of Biomedical Materials Research - Part A, 2016, 104, 991-1001.	2.1	46
120	Characterization of Three-Dimensional Printed Composite Scaffolds Prepared with Different Fabrication Methods. Archives of Metallurgy and Materials, 2016, 61, 645-650.	0.6	9
121	Influence of biodegradable polymer coatings on corrosion, cytocompatibility and cell functionality of Mg-2.0Zn-0.98Mn magnesium alloy. Colloids and Surfaces B: Biointerfaces, 2016, 144, 284-292.	2.5	39
122	In vitro degradation of ZM21 magnesium alloy in simulated body fluids. Materials Science and Engineering C, 2016, 65, 59-69.	3.8	39
123	Patterned hydrophobic and hydrophilic surfaces of ultra-smooth nanocrystalline diamond layers. Applied Surface Science, 2016, 390, 526-530.	3.1	30
124	Discussion: Fracture safety of double-porous hydroxyapatite biomaterials. Bioinspired, Biomimetic and Nanobiomaterials, 2016, 5, 176-177.	0.7	3
125	Biodegradable fiducial markers for X-ray imaging â€“ soft tissue integration and biocompatibility. Journal of Materials Chemistry B, 2016, 4, 5700-5712.	2.9	16
126	Electrolyte alginate/poly-l-lysine membranes for connective tissue development. Materials Letters, 2016, 184, 104-107.	1.3	16

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127	Fracture safety of double-porous hydroxyapatite biomaterials. Bioinspired, Biomimetic and Nanobiomaterials, 2016, 5, 24-36.	0.7	7
128	3D bioprinting of BM-MSCs-loaded ECM biomimetic hydrogels for <i>in vitro</i> neocartilage formation. Biofabrication, 2016, 8, 035002.	3.7	211
129	Nanoengineered biocomposite tricomponent polymer based matrices for bone tissue engineering. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 807-815.	1.8	27
130	Influence of macromolecular structure of novel 2- and 4-armed polylactides on their physicochemical properties and in vitro degradation process. Journal of Polymer Research, 2016, 23, 1.	1.2	17
131	Insight into characteristic features of cartilage growth plate as a physiological template for bone formation. Journal of Biomedical Materials Research - Part A, 2016, 104, 357-366.	2.1	11
132	Influencing chondrogenic differentiation of human mesenchymal stromal cells in scaffolds displaying a structural gradient in pore size. Acta Biomaterialia, 2016, 36, 210-219.	4.1	88
133	Correlation between porous texture and cell seeding efficiency of gas foaming and microfluidic foaming scaffolds. Materials Science and Engineering C, 2016, 62, 668-677.	3.8	70
134	How important are scaffolds and their surface properties in regenerative medicine. Applied Surface Science, 2016, 388, 762-774.	3.1	51
135	A bioactive hybrid three-dimensional tissue-engineering construct for cartilage repair. Journal of Biomaterials Applications, 2016, 30, 873-885.	1.2	14
136	Incorporation of polymeric microparticles into collagen-hydroxyapatite scaffolds for the delivery of a pro-osteogenic peptide for bone tissue engineering. APL Materials, 2015, 3, .	2.2	20
137	Quantitative imaging of electrospun fibers by PeakForce Quantitative NanoMechanics atomic force microscopy using etched scanning probes. Micron, 2015, 72, 1-7.	1.1	23
138	Synthesis of porous hierarchical geopolymer monoliths byÂice-templating. Microporous and Mesoporous Materials, 2015, 215, 206-214.	2.2	65
139	Microfluidic Foaming: A Powerful Tool for Tailoring the Morphological and Permeability Properties of Sponge-like Biopolymeric Scaffolds. ACS Applied Materials & Interfaces, 2015, 7, 23660-23671.	4.0	55
140	Modeling of the degradation kinetics of biodegradable scaffolds: The effects of the environmental conditions. Journal of Applied Polymer Science, 2014, 131, .	1.3	31
141	Biomechanical properties of native and tissue engineered heart valve constructs. Journal of Biomechanics, 2014, 47, 1949-1963.	0.9	216
142	Highly ordered and tunable polyHIPEs by using microfluidics. Journal of Materials Chemistry B, 2014, 2, 2290.	2.9	80
143	Interaction of Schwann cells with laminin encapsulated PLCL coreâ€“shell nanofibers for nerve tissue engineering. European Polymer Journal, 2014, 50, 30-38.	2.6	76
144	Improvement of Cytocompatibility of Magnesium Alloy ZM21 by Surface Modification. , 2014, , 375-380.		0

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145	Consistent quasistatic and acoustic elasticity determination of polyâ€<scp>L</scp>â€lactideâ€based rapidâ€prototyped tissue engineering scaffolds. Journal of Biomedical Materials Research - Part A, 2013, 101A, 138-144.	2.1	26
146	Tailored degradation of biocompatible poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/calcium silicate/poly(lactide-co-glycolide) ternary composites: An in vitro study. Materials Science and Engineering C, 2013, 33, 4352-4360.	3.8	16
147	The influence of crystallinity on radiation stability of UHMWPE. Radiation Physics and Chemistry, 2013, 84, 151-156.	1.4	14
148	Highly biocompatible, nanocrystalline hydroxyapatite synthesized in a solvothermal process driven by high energy density microwave radiation. International Journal of Nanomedicine, 2013, 8, 653.	3.3	49
149	Hydroxyapatite Nanopowder Synthesis with a Programmed Resorption Rate. Journal of Nanomaterials, 2012, 2012, 1-9.	1.5	17
150	Surface characterization and cytocompatibility evaluation of silanized magnesium alloy AZ91 for biomedical applications. Science and Technology of Advanced Materials, 2012, 13, 064214.	2.8	12
151	Numerical Modeling in the Design and Evaluation of Scaffolds for Orthopaedics Applications. Methods in Molecular Biology, 2012, 868, 155-182.	0.4	0
152	Micro CT-based multiscale elasticity of double-porous (pre-cracked) hydroxyapatite granules for regenerative medicine. Journal of Biomechanics, 2012, 45, 1068-1075.	0.9	32
153	Electrospun bioâ€composite P(LLAâ€CL)/collagen I/collagen III scaffolds for nerve tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 1093-1102.	1.6	126
154	Simple methods influencing on properties of electrospun fibrous mats. Journal of Applied Polymer Science, 2012, 125, 4261-4266.	1.3	6
155	Biological characterization of woven fabric using twoâ€and threeâ€dimensional cell cultures. Journal of Biomedical Materials Research - Part A, 2012, 100A, 882-893.	2.1	15
156	From Micro-CT to Multiscale Mechanics of Double-Porous Hydroxyapatite Granules for Regenerative Medicine. , 2012, , .		0
157	Consistent Quasi-Static and Ultrasonic Elasticity Determination of PLLA-based Rapid-Prototyped Tissue Engineering Scaffolds. , 2012, , .		0
158	Comparison of bacterial adhesion and cellular proliferation on newly developed threeâ€dimensional scaffolds manufactured by rapid prototyping technology. Journal of Biomedical Materials Research - Part A, 2011, 98A, 303-311.	2.1	13
159	Radiationâ€induced effects in gammaâ€irradiated PLLA and PCL at ambient and dry ice temperatures. Journal of Applied Polymer Science, 2011, 122, 375-383.	1.3	16
160	Effect of the design parameters on the in vitro wear performance of total shoulder arthroplasties. Materials Science and Engineering C, 2011, 31, 313-319.	3.8	8
161	Highly porous titanium scaffolds for orthopaedic applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 95B, 53-61.	1.6	208
162	Microsensor for Cell Force Measurement. Sensor Letters, 2010, 8, 736-743.	0.4	0

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163	Mechanical and in vitro evaluations of composite PLDLLA/TCP scaffolds for bone engineering. Virtual and Physical Prototyping, 2008, 3, 193-197.	5.3	24
164	Biomaterials for Cartilage Reconstruction and Repair. , 2008, , 659-678.		0
165	Degradation of Engineering Materials â€" Implications to Regenerative Medicine. Macromolecular Symposia, 2007, 253, 1-9.	0.4	3
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