

# Peter Dubrueel

## List of Publications by Year in descending order

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Version: 2024-02-01

259  
papers

12,966  
citations

34493

54  
h-index

35168

102  
g-index

261  
all docs

261  
docs citations

261  
times ranked

18281  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexor tendon repair using a reinforced tubular, medicated electrospun construct. <i>Journal of Orthopaedic Research</i> , 2022, 40, 750-760.	1.2	5
2	Design and Synthesis of Hybrid Thermo-Responsive Hydrogels Based on Poly(2-oxazoline) and Gelatin Derivatives. <i>Gels</i> , 2022, 8, 64.	2.1	6
3	Proteomics as a tool to gain next level insights into photo-crosslinkable biopolymer modifications. <i>Bioactive Materials</i> , 2022, 17, 204-220.	8.6	3
4	RNAi-Based Biocontrol Products: Market Status, Regulatory Aspects, and Risk Assessment. <i>Frontiers in Insect Science</i> , 2022, 1, .	0.9	36
5	Tissue engineered scaffolds for corneal endothelial regeneration: a material's perspective. <i>Biomaterials Science</i> , 2022, 10, 2440-2461.	2.6	11
6	Commercial wound dressings for the treatment of exuding wounds: an in-depth physico-chemical comparative study. <i>Burns and Trauma</i> , 2022, 10, .	2.3	39
7	Capacitive sensing of an amphetamine drug precursor in aqueous samples: Application of novel molecularly imprinted polymers for benzyl methyl ketone detection. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112773.	5.3	11
8	Activated Carbon Containing PEG-Based Hydrogels as Novel Candidate Dressings for the Treatment of Malodorous Wounds. <i>Macromolecular Materials and Engineering</i> , 2021, 306, .	1.7	14
9	Polymer architecture as key to unprecedented high-resolution 3D-printing performance: The case of biodegradable hexa-functional telechelic urethane-based poly- $\mu$ -caprolactone. <i>Materials Today</i> , 2021, 44, 25-39.	8.3	28
10	Design and development of a reinforced tubular electrospun construct for the repair of ruptures of deep flexor tendons. <i>Materials Science and Engineering C</i> , 2021, 119, 111504.	3.8	15
11	Tuning the Phenotype of Cartilage Tissue Mimics by Varying Spheroid Maturation and Methacrylamide-Modified Gelatin Hydrogel Characteristics. <i>Macromolecular Bioscience</i> , 2021, 21, 2000401.	2.1	7
12	Challenges in the Fabrication of Biodegradable and Implantable Optical Fibers for Biomedical Applications. <i>Materials</i> , 2021, 14, 1972.	1.3	13
13	Novel multiplex capacitive sensor based on molecularly imprinted polymers: A promising tool for tracing specific amphetamine synthesis markers in sewage water. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113006.	5.3	13
14	Tubular bioartificial organs: From physiological requirements to fabrication processes and resulting properties. A critical review.. <i>Cells Tissues Organs</i> , 2021, , .	1.3	2
15	Recent advances in electrochemical monitoring of zearalenone in diverse matrices. <i>Food Chemistry</i> , 2021, 353, 129342.	4.2	23
16	Engineering microvasculature by 3D bioprinting of prevascularized spheroids in photo-crosslinkable gelatin. <i>Biofabrication</i> , 2021, 13, 045021.	3.7	32
17	Photo-Crosslinked Gelatin-Based Hydrogel Films to Support Wound Healing. <i>Macromolecular Bioscience</i> , 2021, 21, e2100246.	2.1	10
18	Potential of poly(alkylene terephthalate)s to control endothelial cell adhesion and viability. <i>Materials Science and Engineering C</i> , 2021, 129, 112378.	3.8	10

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19	Development of photo-crosslinkable collagen hydrogel building blocks for vascular tissue engineering applications: A superior alternative to methacrylated gelatin?. <i>Materials Science and Engineering C</i> , 2021, 130, 112460.	3.8	19
20	Thiol-norbornene gelatin hydrogels: influence of thiolated crosslinker on network properties and high definition 3D printing. <i>Biofabrication</i> , 2021, 13, 015017.	3.7	34
21	Poly(alkylene terephthalate)s: From current developments in synthetic strategies towards applications. <i>European Polymer Journal</i> , 2021, 161, 110840.	2.6	25
22	Increasing the Microfabrication Performance of Synthetic Hydrogel Precursors through Molecular Design. <i>Biomacromolecules</i> , 2021, 22, 4919-4932.	2.6	6
23	Thiolâ€“Gelatinâ€“Norbornene Bioink for Laserâ€“Based Highâ€“Definition Bioprinting. <i>Advanced Healthcare Materials</i> , 2020, 9, e1900752.	3.9	75
24	On the Characterization of Novel Step-Index Biocompatible and Biodegradable poly(D,L-lactic acid) Based Optical Fiber. <i>Journal of Lightwave Technology</i> , 2020, 38, 1905-1914.	2.7	13
25	Maillard conjugation of whey protein isolate with water-soluble fraction of almond gum or flaxseed mucilage by dry heat treatment. <i>Food Research International</i> , 2020, 128, 108779.	2.9	35
26	Recent developments in electrochemical detection of illicit drugs in diverse matrices. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112579.	5.3	70
27	High-Resolution 3D Bioprinting of Photo-Cross-linkable Recombinant Collagen to Serve Tissue Engineering Applications. <i>Biomacromolecules</i> , 2020, 21, 3997-4007.	2.6	51
28	Shapeâ€“Memory Polymers for Biomedical Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909047.	7.8	173
29	Hybrid Bioprinting of Chondrogenically Induced Human Mesenchymal Stem Cell Spheroids. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 484.	2.0	66
30	Bioprinting predifferentiated adipose-derived mesenchymal stem cell spheroids with methacrylated gelatin ink for adipose tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2020, 31, 36.	1.7	37
31	Designer Descemet Membranes Containing PDLLA and Functionalized Gelatins as Corneal Endothelial Scaffold. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000760.	3.9	25
32	Methacrylation increase growth and differentiation of primary human osteoblasts for gelatin hydrogels. <i>Emergent Materials</i> , 2020, 3, 559-566.	3.2	4
33	Evaluation of 3D Printed Gelatinâ€“Based Scaffolds with Varying Pore Size for MSCâ€“Based Adipose Tissue Engineering. <i>Macromolecular Bioscience</i> , 2020, 20, e1900364.	2.1	41
34	Highâ€“throughput fabrication of vascularized adipose microtissues for 3D bioprinting. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 840-854.	1.3	26
35	Extrusion-based 3D printing of photo-crosslinkable gelatin and Î±-carrageenan hydrogel blends for adipose tissue regeneration. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 929-938.	3.6	73
36	(Photo-)crosslinkable gelatin derivatives for biofabrication applications. <i>Acta Biomaterialia</i> , 2019, 97, 46-73.	4.1	120

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37	Amorphous random copolymers of lacOCA and manOCA for the design of biodegradable polyesters with tuneable properties. <i>European Polymer Journal</i> , 2019, 118, 685-693.	2.6	3
38	Impact of Hydrogel Stiffness on Differentiation of Human Adipose-Derived Stem Cell Microspheroids. <i>Tissue Engineering - Part A</i> , 2019, 25, 1369-1380.	1.6	71
39	Extrusion Printed Scaffolds with Varying Pore Size As Modulators of MSC Angiogenic Paracrine Effects. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5348-5358.	2.6	27
40	Combined effect of Laponite and polymer molecular weight on the cell-interactive properties of synthetic PEO-based hydrogels. <i>Reactive and Functional Polymers</i> , 2019, 136, 95-106.	2.0	19
41	Poly(D,L-Lactic Acid) (PDLLA) Biodegradable and Biocompatible Polymer Optical Fiber. <i>Journal of Lightwave Technology</i> , 2019, 37, 1916-1923.	2.7	36
42	Biomimetic strategy towards gelatin coatings on PET. Effect of protocol on coating stability and cell-interactive properties. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1258-1269.	2.9	9
43	Additive manufacturing of photo-crosslinked gelatin scaffolds for adipose tissue engineering. <i>Acta Biomaterialia</i> , 2019, 94, 340-350.	4.1	94
44	Development of Gelatin-Alginate Hydrogels for Burn Wound Treatment. <i>Macromolecular Bioscience</i> , 2019, 19, e1900123.	2.1	62
45	A straightforward method for quantification of vinyl functionalized water soluble alginates via <sup>13</sup> C-NMR spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 722-729.	3.6	7
46	Technological advancements for the development of stem cell-based models for hepatotoxicity testing. <i>Archives of Toxicology</i> , 2019, 93, 1789-1805.	1.9	15
47	Superabsorbent polymers: A review on the characteristics and applications of synthetic, polysaccharide-based, semi-synthetic and "smart" derivatives. <i>European Polymer Journal</i> , 2019, 117, 165-178.	2.6	168
48	Photo-crosslinkable recombinant collagen mimics for tissue engineering applications. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3100-3108.	2.9	31
49	Impact of modified gelatin on valvular microtissues. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 771-784.	1.3	11
50	Towards poly(D,L-lactic acid)-based biodegradable and biocompatible polymer optical fiber. , 2019, , .		0
51	Chitosan functionalized poly- $\mu$ -caprolactone electrospun fibers and 3D printed scaffolds as antibacterial materials for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2018, 191, 127-135.	5.1	52
52	Endosomal Size and Membrane Leakiness Influence Proton Sponge-Based Rupture of Endosomal Vesicles. <i>ACS Nano</i> , 2018, 12, 2332-2345.	7.3	154
53	Gene Therapy Approaches Toward Biomedical Breakthroughs. , 2018, , 153-176.		1
54	Catalytic carpets: Pt@MIL-101@electrospun PCL, a surprisingly active and robust hydrogenation catalyst. <i>Journal of Catalysis</i> , 2018, 360, 81-88.	3.1	21

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55	Oil-in-water emulsion impregnated electrospun poly(ethylene terephthalate) fiber mat as a novel tool for optical fiber cleaning. <i>Journal of Colloid and Interface Science</i> , 2018, 520, 64-69.	5.0	5
56	Heterocellular 3D scaffolds as biomimetic to recapitulate the tumor microenvironment of peritoneal metastases in vitro and in vivo. <i>Biomaterials</i> , 2018, 158, 95-105.	5.7	34
57	Ulvan-chitosan polyelectrolyte complexes as matrices for enzyme induced biomimetic mineralization. <i>Carbohydrate Polymers</i> , 2018, 182, 254-264.	5.1	49
58	Single-step solution polymerization of poly(alkylene terephthalate)s: synthesis parameters and polymer characterization. <i>Polymer International</i> , 2018, 67, 292-300.	1.6	16
59	Planar polymer waveguides with a graded-index profile resulting from intermixing of methacrylates in closed microchannels. <i>Optical Materials</i> , 2018, 76, 210-215.	1.7	2
60	Ring opening copolymerisation of lactide and mandelide for the development of environmentally degradable polyesters with controllable glass transition temperatures. <i>Reactive and Functional Polymers</i> , 2018, 128, 16-23.	2.0	8
61	Plasma dye coating as straightforward and widely applicable procedure for dye immobilization on polymeric materials. <i>Nature Communications</i> , 2018, 9, 1123.	5.8	25
62	Clear to clear laser welding for joining thermoplastic polymers: A comparative study based on physicochemical characterization. <i>Journal of Materials Processing Technology</i> , 2018, 255, 808-815.	3.1	29
63	Localized optical-quality doping of graphene on silicon waveguides through a TFSA-containing polymer matrix. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10739-10750.	2.7	2
64	Joint academic and industrial efforts towards innovative and efficient solutions for clinical needs. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 129.	1.7	9
65	Increased RNAi Efficacy in <i>Spodoptera exigua</i> via the Formulation of dsRNA With Guanylated Polymers. <i>Frontiers in Physiology</i> , 2018, 9, 316.	1.3	122
66	Highly Reactive Thiol-Norbornene Photo-Click Hydrogels: Toward Improved Processability. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800181.	2.0	77
67	Endothelialization and Anticoagulation Potential of Surface-Modified PET Intended for Vascular Applications. <i>Macromolecular Bioscience</i> , 2018, 18, e1800125.	2.1	28
68	Fabrication of biomimetic placental barrier structures within a microfluidic device utilizing two-photon polymerization. <i>International Journal of Bioprinting</i> , 2018, 4, 144.	1.7	69
69	Composites of gellan gum hydrogel enzymatically mineralized with calcium-zinc phosphate for bone regeneration with antibacterial activity. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1610-1618.	1.3	23
70	Indirect Rapid Prototyping: Opening Up Unprecedented Opportunities in Scaffold Design and Applications. <i>Annals of Biomedical Engineering</i> , 2017, 45, 58-83.	1.3	40
71	Enzymatically biomineralized chitosan scaffolds for tissue-engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1500-1513.	1.3	23
72	Gelatin- and starch-based hydrogels. Part B: In vitro mesenchymal stem cell behavior on the hydrogels. <i>Carbohydrate Polymers</i> , 2017, 161, 295-305.	5.1	42

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73	Double positive effect of adding hexaethylene glycol when optimizing the hybridization efficiency of a microring DNA detection assay. <i>Applied Surface Science</i> , 2017, 405, 321-328.	3.1	4
74	Acrylate-endcapped polymer precursors: effect of chemical composition on the healing efficiency of active concrete cracks. <i>Smart Materials and Structures</i> , 2017, 26, 055031.	1.8	16
75	Novel Poly(Diol Sebacate)s as Additives to Modify Paclitaxel Release From Poly(Lactic-co-Glycolic) Tj ETQq1 1 0.784314 rgBT /Overloc	1.6	7
76	Intravenous and intratumoral injection of Pluronic P94: The effect of administration route on biodistribution and tumor retention. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 2179-2188.	1.7	8
77	Flexible oligomer spacers as the key to solid-state photopolymerization of hydrogel precursors. <i>Materials Today Chemistry</i> , 2017, 4, 84-89.	1.7	17
78	RAFT/MADIX polymerization of N-vinylcaprolactam in water-ethanol solvent mixtures. <i>Polymer Chemistry</i> , 2017, 8, 2433-2437.	1.9	16
79	Characterization of methacrylated alginate and acrylic monomers as versatile SAPs. <i>Carbohydrate Polymers</i> , 2017, 168, 44-51.	5.1	11
80	Characterization of methacrylated polysaccharides in combination with amine-based monomers for application in mortar. <i>Carbohydrate Polymers</i> , 2017, 168, 173-181.	5.1	16
81	Development of amine-based pH-responsive superabsorbent polymers for mortar applications. <i>Construction and Building Materials</i> , 2017, 132, 556-564.	3.2	23
82	Mechanical and self-healing properties of cementitious materials with pH-responsive semi-synthetic superabsorbent polymers. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	1.3	31
83	Soft tissue fillers for adipose tissue regeneration: From hydrogel development toward clinical applications. <i>Acta Biomaterialia</i> , 2017, 63, 37-49.	4.1	77
84	Cell response of flexible PMMA-derivatives: supremacy of surface chemistry over substrate stiffness. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 183.	1.7	0
85	Stability of Pluronic® F127 bismethacrylate hydrogels: Reality or utopia?. <i>Polymer Degradation and Stability</i> , 2017, 146, 201-211.	2.7	23
86	Cross-Linkable Gelatins with Superior Mechanical Properties Through Carboxylic Acid Modification: Increasing the Two-Photon Polymerization Potential. <i>Biomacromolecules</i> , 2017, 18, 3260-3272.	2.6	104
87	Molecularly imprinted polymers immobilized on 3D printed scaffolds as novel solid phase extraction sorbent for metergoline. <i>Analytica Chimica Acta</i> , 2017, 986, 57-70.	2.6	28
88	Aqueous electrospinning of poly(2-ethyl-2-oxazoline): Mapping the parameter space. <i>European Polymer Journal</i> , 2017, 88, 724-732.	2.6	22
89	Combinatory approach of methacrylated alginate and acid monomers for concrete applications. <i>Carbohydrate Polymers</i> , 2017, 155, 448-455.	5.1	27
90	Crack Mitigation in Concrete: Superabsorbent Polymers as Key to Success?. <i>Materials</i> , 2017, 10, 237.	1.3	113

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91	Cell Regeneration: Current Knowledge and Evolutions. , 2016, , 15-63.		1
92	Gelatin- and starch-based hydrogels. Part A: Hydrogel development, characterization and coating. Carbohydrate Polymers, 2016, 152, 129-139.	5.1	81
93	Biopolymers as Novel Tool for Self-Sealing and Self-Healing of Mortar. Materials Research Society Symposia Proceedings, 2016, 1813, 1.	0.1	0
94	Di-Calcium Phosphate and Phytosphingosine as an Innovative Acid-Resistant Treatment to Occlude Dentine Tubules. Caries Research, 2016, 50, 303-309.	0.9	12
95	Role of the surface chemistry of the adsorbent on the initialization step of the water sorption process. Carbon, 2016, 106, 284-288.	5.4	28
96	Evaluation and validation of the use of a molecularly imprinted polymer coupled to LC-MS for benzylpenicillin determination in meat samples. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1025, 48-56.	1.2	15
97	Poly(polyol sebacate) Elastomers as Coatings for Metallic Coronary Stents. Macromolecular Bioscience, 2016, 16, 1678-1692.	2.1	4
98	Indirect Solid Freeform Fabrication of an Initiator-Free Photocrosslinkable Hydrogel Precursor for the Creation of Porous Scaffolds. Macromolecular Bioscience, 2016, 16, 1883-1894.	2.1	16
99	Optical-quality controllable wet-chemical doping of graphene through a uniform, transparent and low-roughness F4-TCNQ/MEK layer. RSC Advances, 2016, 6, 104491-104501.	1.7	10
100	Deep proton writing with 12 MeV protons for rapid prototyping of microstructures in polymethylmethacrylate. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2016, 15, 044501.	1.0	3
101	Generation of composites for bone tissue-engineering applications consisting of gellan gum hydrogels mineralized with calcium and magnesium phosphate phases by enzymatic means. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 938-954.	1.3	47
102	A Computational Framework to Model Degradation of Biocorrosible Metal Stents Using an Implicit Finite Element Solver. Annals of Biomedical Engineering, 2016, 44, 382-390.	1.3	17
103	Polydopamine-Gelatin as Universal Cell-Interactive Coating for Methacrylate-Based Medical Device Packaging Materials: When Surface Chemistry Overrides Substrate Bulk Properties. Biomacromolecules, 2016, 17, 56-68.	2.6	21
104	Characterization of MIP and MIP functionalized surfaces: Current state-of-the-art. TrAC - Trends in Analytical Chemistry, 2016, 76, 71-85.	5.8	48
105	Adhesion improvement at the PMMA bone cement-titanium implant interface using methyl methacrylate atmospheric pressure plasma polymerization. Surface and Coatings Technology, 2016, 294, 201-209.	2.2	24
106	Alginate biopolymers: Counteracting the impact of superabsorbent polymers on mortar strength. Construction and Building Materials, 2016, 110, 169-174.	3.2	86
107	Cross-linkable polyethers as healing/sealing agents for self-healing of cementitious materials. Materials and Design, 2016, 98, 215-222.	3.3	45
108	SPECT/CT Imaging of Pluronic Nanocarriers with Varying Poly(ethylene oxide) Block Length and Aggregation State. Molecular Pharmaceutics, 2016, 13, 1158-1165.	2.3	19

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109	Interactions of Pluronic nanocarriers with 2D and 3D cell cultures: Effects of PEO block length and aggregation state. <i>Journal of Controlled Release</i> , 2016, 224, 126-135.	4.8	32
110	New antimicrobial chitosan derivatives for wound dressing applications. <i>Carbohydrate Polymers</i> , 2016, 141, 28-40.	5.1	143
111	Fabrication of 3-dimensional biodegradable microfluidic environments for tissue engineering applications. <i>Materials and Design</i> , 2016, 89, 1315-1324.	3.3	14
112	Paper No S5.3: Importance of Alignment Layers in Blue Phase Liquid Crystal Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2015, 46, 23-23.	0.1	0
113	Development and Characterization of Novel Films Based on Sulfonamide-Chitosan Derivatives for Potential Wound Dressing. <i>International Journal of Molecular Sciences</i> , 2015, 16, 29843-29855.	1.8	16
114	Multifactorial Optimization of Contrast-Enhanced Nanofocus Computed Tomography for Quantitative Analysis of Neo-Tissue Formation in Tissue Engineering Constructs. <i>PLoS ONE</i> , 2015, 10, e0130227.	1.1	10
115	Pulsed laser deposition of magnesium-doped calcium phosphate coatings on porous polycaprolactone scaffolds produced by rapid prototyping. <i>Materials Letters</i> , 2015, 148, 178-183.	1.3	23
116	Hybrid Tissue Engineering Scaffolds by Combination of Three-Dimensional Printing and Cell Photoencapsulation. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2015, 6, 0210011-210017.	0.8	59
117	Biofunctionalization of poly(l-lactide-co-glycolide) by post-plasma grafting of 2-aminoethyl methacrylate and gelatin immobilization. <i>Materials Letters</i> , 2015, 139, 344-347.	1.3	6
118	Collagen- $\alpha$ -lactoferrin fibrillar coatings enhance osteoblast proliferation and differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 525-533.	2.1	22
119	Photo-crosslinkable biopolymers targeting stem cell adhesion and proliferation: the case study of gelatin and starch-based IPNs. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 104.	1.7	12
120	A Cardiovascular Occlusion Method Based on the Use of a Smart Hydrogel. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 399-406.	2.5	4
121	First step toward near-infrared continuous glucose monitoring: <i>in vivo</i> evaluation of antibody coupled biomaterials. <i>Experimental Biology and Medicine</i> , 2015, 240, 446-457.	1.1	10
122	Cryogel-PCL combination scaffolds for bone tissue repair. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 123.	1.7	31
123	Biomimetic Magnetic Silk Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 6282-6292.	4.0	52
124	Cross-linkable alginate-graft-gelatin copolymers for tissue engineering applications. <i>European Polymer Journal</i> , 2015, 72, 494-506.	2.6	54
125	pH-responsive superabsorbent polymers: A pathway to self-healing of mortar. <i>Reactive and Functional Polymers</i> , 2015, 93, 68-76.	2.0	87
126	Development, optimization and biological evaluation of chitosan scaffold formulations of new xanthine derivatives for treatment of type-2 diabetes mellitus. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 77, 122-134.	1.9	25



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127	Bio-inspired surface modification of PET for cardiovascular applications: Case study of gelatin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 113-121.	2.5	23
128	Thermoresponsive polymer coated gold nanoparticles: from MADIX/RAFT copolymerization of N-vinylpyrrolidone and N-vinylcaprolactam to salt and temperature induced nanoparticle aggregation. <i>RSC Advances</i> , 2015, 5, 42388-42398.	1.7	24
129	On the effect of alignment layers on blue phase liquid crystals. <i>Applied Physics Letters</i> , 2015, 106, 101105.	1.5	12
130	A finite element strategy to investigate the free expansion behaviour of a biodegradable polymeric stent. <i>Journal of Biomechanics</i> , 2015, 48, 2012-2018.	0.9	50
131	An electro-responsive hydrogel for intravascular applications: an in vitro and in vivo evaluation. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 264.	1.7	9
132	Long Term Stability of Polymer Stabilized Blue Phase Liquid Crystals. <i>Journal of Display Technology</i> , 2015, 11, 703-708.	1.3	2
133	Surface modification of an epoxy resin with polyamines and polydopamine: Adhesion toward electroless deposited copper. <i>Applied Surface Science</i> , 2015, 353, 238-244.	3.1	29
134	Indirect additive manufacturing as an elegant tool for the production of self-supporting low density gelatin scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 247.	1.7	38
135	pH-sensitive superabsorbent polymers: a potential candidate material for self-healing concrete. <i>Journal of Materials Science</i> , 2015, 50, 970-979.	1.7	117
136	High Throughput Micro-Well Generation of Hepatocyte Micro-Aggregates for Tissue Engineering. <i>PLoS ONE</i> , 2014, 9, e105171.	1.1	44
137	Cationic Polymers as Gene-Activated Matrices for Biomedical Applications. <i>RSC Polymer Chemistry Series</i> , 2014, , 438-462.	0.1	0
138	Cationic Polymers as Carriers through the Blood-Brain Barrier. <i>RSC Polymer Chemistry Series</i> , 2014, , 539-556.	0.1	2
139	Gelatin-Based Hydrogels Promote Chondrogenic Differentiation of Human Adipose Tissue-Derived Mesenchymal Stem Cells In Vitro. <i>Materials</i> , 2014, 7, 1342-1359.	1.3	68
140	Improved performance of highly multiplexed silicon-on-insulator microring sensor chips by surface structure implementation. , 2014, , .		0
141	Curing kinetics of step-index and graded-index single mode polymer self-written waveguides. <i>Optical Materials Express</i> , 2014, 4, 1324.	1.6	16
142	Properties of electrically responsive hydrogels as a potential dynamic tool for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	18
143	Laser Photofabrication of Cell-Containing Hydrogel Constructs. <i>Langmuir</i> , 2014, 30, 3787-3794.	1.6	159
144	Surface modification of an epoxy resin with polyamines and polydopamine: The effect on the initial electroless copper deposition. <i>Applied Surface Science</i> , 2014, 305, 321-329.	3.1	8

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145	Surface characterization and stability of an epoxy resin surface modified with polyamines grafted on polydopamine. <i>Applied Surface Science</i> , 2014, 303, 465-472.	3.1	41
146	Actuation of a novel Pluronic-based hydrogel: Electromechanical response and the role of applied current. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 650-658.	4.0	18
147	Enrichment of chitosan hydrogels with perfluorodecalin promotes gelation and stem cell vitality. <i>Materials Letters</i> , 2014, 128, 79-84.	1.3	17
148	Enzymatic Mineralization of Silk Scaffolds. <i>Macromolecular Bioscience</i> , 2014, 14, 991-1003.	2.1	30
149	The 3D printing of gelatin methacrylamide cell-laden tissue-engineered constructs with high cell viability. <i>Biomaterials</i> , 2014, 35, 49-62.	5.7	837
150	Galactose-functionalized Gelatin Hydrogels Improve the Functionality of Encapsulated Hepg2 Cells. <i>Macromolecular Bioscience</i> , 2014, 14, 419-427.	2.1	19
151	One-pot synthesis of superabsorbent hybrid hydrogels based on methacrylamide gelatin and polyacrylamide. Effortless control of hydrogel properties through composition design. <i>New Journal of Chemistry</i> , 2014, 38, 3112-3126.	1.4	56
152	Electro-actuation of biocompatible Pluronic/methacrylic acid hydrogel in blood-plasma and in blood-mimicking buffers. <i>RSC Advances</i> , 2014, 4, 1890-1894.	1.7	6
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