

Sandra Van Vlierberghe

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1287218/sandra-van-vlierberghe-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

164
papers

5,581
citations

37
h-index

70
g-index

177
ext. papers

6,819
ext. citations

5.9
avg, IF

5.96
L-index

#	Paper	IF	Citations
164	A review of trends and limitations in hydrogel-rapid prototyping for tissue engineering. <i>Biomaterials</i> , 2012 , 33, 6020-41	15.6	882
163	Bioink properties before, during and after 3D bioprinting. <i>Biofabrication</i> , 2016 , 8, 032002	10.5	537
162	Laser fabrication of three-dimensional CAD scaffolds from photosensitive gelatin for applications in tissue engineering. <i>Biomacromolecules</i> , 2011 , 12, 851-8	6.9	236
161	Porous gelatin hydrogels: 1. Cryogenic formation and structure analysis. <i>Biomacromolecules</i> , 2007 , 8, 331-7	6.9	168
160	X-ray computed tomography proof of bacterial-based self-healing in concrete. <i>Cement and Concrete Composites</i> , 2014 , 53, 289-304	8.6	153
159	Porous gelatin hydrogels: 2. In vitro cell interaction study. <i>Biomacromolecules</i> , 2007 , 8, 338-44	6.9	153
158	Laser photofabrication of cell-containing hydrogel constructs. <i>Langmuir</i> , 2014 , 30, 3787-94	4	130
157	Laser Fabrication of 3D Gelatin Scaffolds for the Generation of Bioartificial Tissues. <i>Materials</i> , 2011 , 4, 288-299	3.5	113
156	Organic/inorganic behaviour of HMDSO films plasma-polymerized at atmospheric pressure. <i>Surface and Coatings Technology</i> , 2009 , 203, 1366-1372	4.4	89
155	pH-sensitive superabsorbent polymers: a potential candidate material for self-healing concrete. <i>Journal of Materials Science</i> , 2015 , 50, 970-979	4.3	84
154	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	5.2	81
153	Crack Mitigation in Concrete: Superabsorbent Polymers as Key to Success?. <i>Materials</i> , 2017 , 10,	3.5	74
152	Novel gelatin/HEMA porous scaffolds for tissue engineering applications. <i>Soft Matter</i> , 2012 , 8, 9589	3.6	71
151	pH-responsive superabsorbent polymers: A pathway to self-healing of mortar. <i>Reactive and Functional Polymers</i> , 2015 , 93, 68-76	4.6	68
150	Cross-Linkable Gelatins with Superior Mechanical Properties Through Carboxylic Acid Modification: Increasing the Two-Photon Polymerization Potential. <i>Biomacromolecules</i> , 2017 , 18, 3260-3272	6.9	66
149	Shape-Memory Polymers for Biomedical Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909047	15.6	65
148	Collagen-Based Tissue Engineering Strategies for Vascular Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 166	5.8	64

147	Reversible gelatin-based hydrogels: Finetuning of material properties. <i>European Polymer Journal</i> , 2011 , 47, 1039-1047	5.2	62
146	Gelatin- and starch-based hydrogels. Part A: Hydrogel development, characterization and coating. <i>Carbohydrate Polymers</i> , 2016 , 152, 129-139	10.3	59
145	Plasma-Polymerization of HMDSO Using an Atmospheric Pressure Dielectric Barrier Discharge. <i>Plasma Processes and Polymers</i> , 2009 , 6, S537-S542	3.4	58
144	Additive manufacturing of photo-crosslinked gelatin scaffolds for adipose tissue engineering. <i>Acta Biomaterialia</i> , 2019 , 94, 340-350	10.8	55
143	Soft tissue fillers for adipose tissue regeneration: From hydrogel development toward clinical applications. <i>Acta Biomaterialia</i> , 2017 , 63, 37-49	10.8	54
142	(Photo-)crosslinkable gelatin derivatives for biofabrication applications. <i>Acta Biomaterialia</i> , 2019 , 97, 46-73	10.8	53
141	Thiol-Gelatin-Norbornene Bioink for Laser-Based High-Definition Bioprinting. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1900752	10.1	52
140	Alginate- and gelatin-based bioactive photocross-linkable hybrid materials for bone tissue engineering. <i>Carbohydrate Polymers</i> , 2017 , 157, 1714-1722	10.3	50
139	Gelatin-Based Hydrogels Promote Chondrogenic Differentiation of Human Adipose Tissue-Derived Mesenchymal Stem Cells In Vitro. <i>Materials</i> , 2014 , 7, 1342-1359	3.5	50
138	Alginate biopolymers: Counteracting the impact of superabsorbent polymers on mortar strength. <i>Construction and Building Materials</i> , 2016 , 110, 169-174	6.7	49
137	Highly Reactive Thiol-Norbornene Photo-Click Hydrogels: Toward Improved Processability. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800181	4.8	48
136	Cross-linkable alginate-graft-gelatin copolymers for tissue engineering applications. <i>European Polymer Journal</i> , 2015 , 72, 494-506	5.2	45
135	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		45
134	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	3.6	44
133	Deposition of Polyacrylic Acid Films by Means of an Atmospheric Pressure Dielectric Barrier Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2009 , 29, 103-117	3.6	43
132	Fabrication of biomimetic placental barrier structures within a microfluidic device utilizing two-photon polymerization. <i>International Journal of Bioprinting</i> , 2018 , 4, 144	6.2	42
131	A joint action of aptamers and gold nanoparticles chemically trapped on a glassy carbon support for the electrochemical sensing of ofloxacin. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 1024-1035	8.5	39
130	Impact of Hydrogel Stiffness on Differentiation of Human Adipose-Derived Stem Cell Microspheroids. <i>Tissue Engineering - Part A</i> , 2019 , 25, 1369-1380	3.9	38

129	Cross-linkable polyethers as healing/sealing agents for self-healing of cementitious materials. <i>Materials and Design</i> , 2016 , 98, 215-222	8.1	38
128	Hydrogel network formation revised: high-resolution magic angle spinning nuclear magnetic resonance as a powerful tool for measuring absolute hydrogel cross-link efficiencies. <i>Applied Spectroscopy</i> , 2010 , 64, 1176-80	3.1	38
127	Gelatin- and starch-based hydrogels. Part B: In vitro mesenchymal stem cell behavior on the hydrogels. <i>Carbohydrate Polymers</i> , 2017 , 161, 295-305	10.3	35
126	Poly(methyl methacrylate) capsules as an alternative to the proof-of-concept glass capsules used in self-healing concrete. <i>Cement and Concrete Composites</i> , 2018 , 89, 260-271	8.6	35
125	Adsorption of cobalt (II) 5,10,15,20-tetrakis(2-aminophenyl)-porphyrin onto copper substrates: Characterization and impedance studies for corrosion inhibition. <i>Corrosion Science</i> , 2012 , 62, 73-82	6.8	35
124	Affinity study of novel gelatin cell carriers for fibronectin. <i>Macromolecular Bioscience</i> , 2009 , 9, 1105-15	5.5	35
123	Gelatin Functionalization of Biomaterial Surfaces: Strategies for Immobilization and Visualization. <i>Polymers</i> , 2011 , 3, 114-130	4.5	35
122	Gelatin nanofibers: Analysis of triple helix dissociation temperature and cold-water-solubility. <i>Food Hydrocolloids</i> , 2016 , 57, 200-208	10.6	34
121	Extrusion-based 3D printing of photo-crosslinkable gelatin and chondroitin sulfate hydrogel blends for adipose tissue regeneration. <i>International Journal of Biological Macromolecules</i> , 2019 , 140, 929-938	7.9	34
120	Electrochemical determination of hydrogen peroxide with cytochrome c peroxidase and horse heart cytochrome c entrapped in a gelatin hydrogel. <i>Bioelectrochemistry</i> , 2012 , 83, 15-8	5.6	34
119	Implantation of ultrathin, biofunctionalized polyimide membranes into the subretinal space of rats. <i>Biomaterials</i> , 2011 , 32, 3890-8	15.6	33
118	Development of Gelatin-Alginate Hydrogels for Burn Wound Treatment. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900123	5.5	32
117	Introduction of amino groups on the surface of thin photo definable epoxy resin layers via chemical modification. <i>Applied Surface Science</i> , 2009 , 255, 8780-8787	6.7	31
116	Immobilization of pseudorabies virus in porcine tracheal respiratory mucus revealed by single particle tracking. <i>PLoS ONE</i> , 2012 , 7, e51054	3.7	31
115	Indirect Rapid Prototyping: Opening Up Unprecedented Opportunities in Scaffold Design and Applications. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 58-83	4.7	29
114	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	11.7	29
113	Plasma modification of PET foils with different crystallinity. <i>Surface and Coatings Technology</i> , 2011 , 205, S511-S515	4.4	29
112	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	4.5	28

111	A chitosan based pH-responsive hydrogel for encapsulation of bacteria for self-sealing concrete. <i>Cement and Concrete Composites</i> , 2018 , 93, 309-322	8.6	28
110	High-Resolution 3D Bioprinting of Photo-Cross-linkable Recombinant Collagen to Serve Tissue Engineering Applications. <i>Biomacromolecules</i> , 2020 , 21, 3997-4007	6.9	28
109	Poly(D,L-Lactic Acid) (PDLLA) Biodegradable and Biocompatible Polymer Optical Fiber. <i>Journal of Lightwave Technology</i> , 2019 , 37, 1916-1923	4	27
108	Role of the surface chemistry of the adsorbent on the initialization step of the water sorption process. <i>Carbon</i> , 2016 , 106, 284-288	10.4	27
107	Synergistic effect of Earrageenan and gelatin blends towards adipose tissue engineering. <i>Carbohydrate Polymers</i> , 2018 , 189, 1-9	10.3	26
106	Crosslinking strategies for porous gelatin scaffolds. <i>Journal of Materials Science</i> , 2016 , 51, 4349-4357	4.3	25
105	Evaluation of 3D Printed Gelatin-Based Scaffolds with Varying Pore Size for MSC-Based Adipose Tissue Engineering. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900364	5.5	24
104	Immunocompatibility evaluation of hydrogel-coated polyimide implants for applications in regenerative medicine. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1982-90	5.4	24
103	Cryogel-PCL combination scaffolds for bone tissue repair. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 123	4.5	23
102	Hybrid Bioprinting of Chondrogenically Induced Human Mesenchymal Stem Cell Spheroids. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 484	5.8	23
101	Electrochemical study of gelatin as a matrix for the immobilization of horse heart cytochrome c. <i>Talanta</i> , 2010 , 82, 1980-5	6.2	23
100	Application of super absorbent polymers (SAP) in concrete construction Update of RILEM state-of-the-art report. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021 , 54, 1	3.4	23
99	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	15.6	21
98	Engineered (hep/pARG) ₂ polyelectrolyte capsules for sustained release of bioactive TGF-β. <i>Soft Matter</i> , 2012 , 8, 1146-1154	3.6	21
97	Bio-inspired surface modification of PET for cardiovascular applications: Case study of gelatin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 134, 113-21	6	20
96	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	3.7	20
95	Polydopamine-Gelatin as Universal Cell-Interactive Coating for Methacrylate-Based Medical Device Packaging Materials: When Surface Chemistry Overrides Substrate Bulk Properties. <i>Biomacromolecules</i> , 2016 , 17, 56-68	6.9	20
94	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	5.3	20

93	Parameter Study of Superabsorbent Polymers (SAPs) for Use in Durable Concrete Structures. <i>Materials</i> , 2019 , 12,	3.5	19
92	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	4.5	19
91	Combined use of superabsorbent polymers and nanosilica for reduction of restrained shrinkage and strength compensation in cementitious mortars. <i>Construction and Building Materials</i> , 2020 , 251, 118966	6.7	19
90	A New Approach for Adipose Tissue Regeneration Based on Human Mesenchymal Stem Cells in Contact to Hydrogels In Vitro Study. <i>Advanced Engineering Materials</i> , 2009 , 11, B155-B161	3.5	19
89	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	3.4	18
88	Photo-crosslinkable recombinant collagen mimics for tissue engineering applications. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 3100-3108	7.3	18
87	Evaluation of the Self-Healing Ability of Mortar Mixtures Containing Superabsorbent Polymers and Nanosilica. <i>Materials</i> , 2020 , 13,	3.5	18
86	Endothelialization and Anticoagulation Potential of Surface-Modified PET Intended for Vascular Applications. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800125	5.5	18
85	Combinatory approach of methacrylated alginate and acid monomers for concrete applications. <i>Carbohydrate Polymers</i> , 2017 , 155, 448-455	10.3	18
84	Development of amine-based pH-responsive superabsorbent polymers for mortar applications. <i>Construction and Building Materials</i> , 2017 , 132, 556-564	6.7	17
83	Aqueous electrospinning of poly(2-ethyl-2-oxazoline): Mapping the parameter space. <i>European Polymer Journal</i> , 2017 , 88, 724-732	5.2	17
82	Stability of Pluronic F127 bismethacrylate hydrogels: Reality or utopia?. <i>Polymer Degradation and Stability</i> , 2017 , 146, 201-211	4.7	14
81	Screening of two-photon activated photodynamic therapy sensitizers using a 3D osteosarcoma model. <i>Analyst, The</i> , 2019 , 144, 3056-3063	5	14
80	SPECT/CT Imaging of Pluronic Nanocarriers with Varying Poly(ethylene oxide) Block Length and Aggregation State. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1158-65	5.6	14
79	Flexible oligomer spacers as the key to solid-state photopolymerization of hydrogel precursors. <i>Materials Today Chemistry</i> , 2017 , 4, 84-89	6.2	13
78	The Contribution of Elastic Wave NDT to the Characterization of Modern Cementitious Media. <i>Sensors</i> , 2020 , 20,	3.8	13
77	High-throughput fabrication of vascularized adipose microtissues for 3D bioprinting. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 840-854	4.4	13
76	Indirect Solid Freeform Fabrication of an Initiator-Free Photocrosslinkable Hydrogel Precursor for the Creation of Porous Scaffolds. <i>Macromolecular Bioscience</i> , 2016 , 16, 1883-1894	5.5	13

75	Use of a gelatin cryogel as biomaterial scaffold in the differentiation process of human bone marrow stromal cells. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 247-50</i>	0.9	13
74	Polymer architecture as key to unprecedented high-resolution 3D-printing performance: The case of biodegradable hexa-functional telechelic urethane-based poly-ε-caprolactone. <i>Materials Today, 2021, 44, 25-39</i>	21.8	13
73	Thiol-Norbornene gelatin hydrogels: influence of thiolated crosslinker on network properties and high definition 3D printing. <i>Biofabrication, 2020,</i>	10.5	13
72	Acrylate-endcapped polymer precursors: effect of chemical composition on the healing efficiency of active concrete cracks. <i>Smart Materials and Structures, 2017, 26, 055031</i>	3.4	12
71	RAFT/MADIX polymerization of N-vinylcaprolactam in water-ethanol solvent mixtures. <i>Polymer Chemistry, 2017, 8, 2433-2437</i>	4.9	12
70	Combined effect of Laponite and polymer molecular weight on the cell-interactive properties of synthetic PEO-based hydrogels. <i>Reactive and Functional Polymers, 2019, 136, 95-106</i>	4.6	12
69	On the effect of alignment layers on blue phase liquid crystals. <i>Applied Physics Letters, 2015, 106, 101105</i>	5.4	12
68	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, 2015, 26, 104</i>	4.5	12
67	Extrusion Printed Scaffolds with Varying Pore Size As Modulators of MSC Angiogenic Paracrine Effects. <i>ACS Biomaterials Science and Engineering, 2019, 5, 5348-5358</i>	5.5	11
66	Technological advancements for the development of stem cell-based models for hepatotoxicity testing. <i>Archives of Toxicology, 2019, 93, 1789-1805</i>	5.8	11
65	Characterization of methacrylated polysaccharides in combination with amine-based monomers for application in mortar. <i>Carbohydrate Polymers, 2017, 168, 173-181</i>	10.3	10
64	Development of Mechanically Tailored Gelatin-Chondroitin Sulphate Hydrogel Films. <i>Macromolecular Symposia, 2011, 309-310, 173-181</i>	0.8	10
63	Fully automated z-scan setup based on a tunable fs-oscillator. <i>Optical Materials Express, 2019, 9, 3567</i>	2.6	10
62	Designer Descemet Membranes Containing PDLLA and Functionalized Gelatins as Corneal Endothelial Scaffold. <i>Advanced Healthcare Materials, 2020, 9, e2000760</i>	10.1	9
61	Single-step solution polymerization of poly(alkylene terephthalate)s: synthesis parameters and polymer characterization. <i>Polymer International, 2018, 67, 292-300</i>	3.3	9
60	Multifactorial Optimization of Contrast-Enhanced Nanofocus Computed Tomography for Quantitative Analysis of Neo-Tissue Formation in Tissue Engineering Constructs. <i>PLoS ONE, 2015, 10, e0130227</i>	3.7	9
59	On-chip high-definition bioprinting of microvascular structures. <i>Biofabrication, 2021, 13, 015016</i>	10.5	9
58	Design and development of a reinforced tubular electrospun construct for the repair of ruptures of deep flexor tendons. <i>Materials Science and Engineering C, 2021, 119, 111504</i>	8.3	9

57	Characterization of methacrylated alginate and acrylic monomers as versatile SAPs. <i>Carbohydrate Polymers</i> , 2017 , 168, 44-51	10.3	8
56	Influence of polymer hydrolysis on adjuvant effect of Gantrez [®] AN nanoparticles: implications for oral vaccination. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 79, 392-8	5.7	8
55	Challenges in the Fabrication of Biodegradable and Implantable Optical Fibers for Biomedical Applications. <i>Materials</i> , 2021 , 14,	3.5	8
54	Optical-quality controllable wet-chemical doping of graphene through a uniform, transparent and low-roughness F4-TCNQ/MEK layer. <i>RSC Advances</i> , 2016 , 6, 104491-104501	3.7	7
53	Protein functionalization revised: N-tert-butoxycarbonylation as an elegant tool to circumvent protein crosslinking. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 1351-5	4.8	7
52	A Semiempirical Scaling Model for the Solid- and Liquid-State Photopolymerization Kinetics of Semicrystalline Acrylated Oligomers. <i>Macromolecules</i> , 2018 , 51, 5027-5038	5.5	5
51	Ozonization and cyclic voltammetry as efficient methods for the regeneration of gelatin-coated SPR chips. <i>Macromolecular Bioscience</i> , 2008 , 8, 1090-7	5.5	5
50	Design, preparation and in vitro characterization of biomimetic and bioactive chitosan/polyethylene oxide based nanofibers as wound dressings. <i>International Journal of Biological Macromolecules</i> , 2021 , 193, 996-1008	7.9	5
49	Potential of poly(alkylene terephthalate)s to control endothelial cell adhesion and viability. <i>Materials Science and Engineering C</i> , 2021 , 129, 112378	8.3	5
48	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	9.3	4
47	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	4.6	4
46	Surface characterization of a cross-linked cytochrome c film on cysteamine-modified gold electrodes. <i>Surface and Interface Analysis</i> , 2009 , 41, 389-393	1.5	4
45	Effect of extrusion and fused filament fabrication processing parameters of recycled poly(ethylene terephthalate) on the crystallinity and mechanical properties. <i>Additive Manufacturing</i> , 2021 , 50, 102518	6.1	4
44	Poly(alkylene terephthalate)s: from current developments in synthetic strategies towards applications. <i>European Polymer Journal</i> , 2021 , 110840	5.2	4
43	Toward Adipose Tissue Engineering Using Thiol-Norbornene Photo-Crosslinkable Gelatin Hydrogels. <i>Biomacromolecules</i> , 2021 , 22, 2408-2418	6.9	4
42	Activated Carbon Containing PEG-Based Hydrogels as Novel Candidate Dressings for the Treatment of Malodorous Wounds. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000529	3.9	4
41	Engineering microvasculature by 3D bioprinting of prevascularized spheroids in photo-crosslinkable gelatin. <i>Biofabrication</i> , 2021 , 13,	10.5	4
40	Atomic Layer Deposition on Polymer Thin Films: On the Role of Precursor Infiltration and Reactivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 46151-46163	9.5	4

39	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	7.3	3
38	Laser welding of carbon fibre filled polytetrafluoroethylene. <i>Journal of Materials Processing Technology</i> , 2020 , 282, 116681	5.3	3
37	A low-cost photonic biosensor built on a polymer platform 2011 ,		3
36	Innovative SuperAbsorbent Polymers (iSAPs) to construct crack-free reinforced concrete walls: An in-field large-scale testing campaign. <i>Journal of Building Engineering</i> , 2021 , 43, 102639	5.2	3
35	Long Term Stability of Polymer Stabilized Blue Phase Liquid Crystals. <i>Journal of Display Technology</i> , 2015 , 11, 703-708		2
34	Indirect versus direct 3D printing of hydrogel scaffolds for adipose tissue regeneration Lana Van Damme, Emilie Briant, Phillip Blondeel, Sandra Van Vlierberghe. <i>MRS Advances</i> , 2020 , 5, 855-864	0.7	2
33	Deep proton writing with 12[MeV protons for rapid prototyping of microstructures in polymethylmethacrylate. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2016 , 15, 044501	0.7	2
32	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	5.2	2
31	Flexor tendon repair using a reinforced tubular, medicated electrospun construct. <i>Journal of Orthopaedic Research</i> , 2021 ,	3.8	2
30	The Lack of a Representative Tendinopathy Model Hampers Fundamental Mesenchymal Stem Cell Research. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 651164	5.7	2
29	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	7.1	2
28	Enhanced durability performance of cracked and uncracked concrete by means of smart in-house developed superabsorbent polymers with alkali-stable and -unstable crosslinkers. <i>Construction and Building Materials</i> , 2021 , 297, 123812	6.7	2
27	Gelatin-Based Versus Alginate-Based Hydrogels: Providing Insight in Wound Healing Potential. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100230	5.5	2
26	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	8.3	2
25	From Chain Growth to Step Growth Polymerization of Photoreactive Poly-εCaprolactone: The Network Topology of Bioresorbable Networks as Tool in Tissue Engineering. <i>Advanced Functional Materials</i> , 2018 , 28, 2108869	15.6	2
24	Towards encapsulation of thiol-ene mixtures: Synthesis of thioacetate cross-linker for in-situ deprotection. <i>Materials Letters</i> , 2019 , 249, 165-168	3.3	1
23	Non-steady scaling model for the kinetics of the photo-induced free radical polymerization of crosslinking networks. <i>Polymer Chemistry</i> , 2020 , 11, 2475-2484	4.9	1
22	Planar polymer waveguides with a graded-index profile resulting from intermixing of methacrylates in closed microchannels. <i>Optical Materials</i> , 2018 , 76, 210-215	3.3	1

21	Exploring the Future of Hydrogels in Rapid Prototyping: A Review on Current Trends and Limitations. <i>Springer Series in Biomaterials Science and Engineering</i> , 2013 , 201-249	0.6	1
20	The Effect of Medium Pressure Plasma Treatment on Thin Poly- ϵ -Caprolactone Layers. <i>Journal of Adhesion Science and Technology</i> , 2012 , 26, 2239-2249	2	1
19	Electrospinning of poly(decamethylene terephthalate) to support vascular graft applications. <i>European Polymer Journal</i> , 2022 , 165, 111003	5.2	1
18	A Low Cost Photonic Biosensor Built on a Polymer Platform 2011 ,		1
17	Cell Regeneration: Current Knowledge and Evolutions 2016 , 15-63		1
16	Equine Tenocyte Seeding on Gelatin Hydrogels Improves Elongated Morphology. <i>Polymers</i> , 2021 , 13,	4.5	1
15	Photo-Crosslinked Gelatin-Based Hydrogel Films to Support Wound Healing. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100246	5.5	1
14	Acrylate-endcapped urethane-based hydrogels: An in vivo study on wound healing potential. <i>Materials Science and Engineering C</i> , 2021 , 130, 112436	8.3	1
13	Plasma Treatments and Light Extraction from Fluorinated CVD-Grown (400) Single Crystal Diamond Nanopillars. <i>Journal of Carbon Research</i> , 2020 , 6, 37	3.3	0
12	Proteomics as a tool to gain next level insights into photo-crosslinkable biopolymer modifications.. <i>Bioactive Materials</i> , 2022 , 17, 204-220	16.7	0
11	Thiol-Mediated Chain Transfer as a Tool to Improve the Toughness of Acrylate Photo-Crosslinked Poly(ϵ -Caprolactone). <i>Macromolecular Materials and Engineering</i> , 2100754	3.9	0
10	Tuning the Phenotype of Cartilage Tissue Mimics by Varying Spheroid Maturation and Methacrylamide-Modified Gelatin Hydrogel Characteristics. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000401	5.5	0
9	Injectable biomaterials as minimal invasive strategy towards soft tissue regeneration: An overview. <i>JPhys Materials</i> , 2021 , 4, 022001	4.2	0
8	Melt Electrowriting of a Photo-Crosslinkable Poly(ϵ -Caprolactone)-Based Material into Tubular Constructs with Predefined Architecture and Tunable Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2200097	3.9	0
7	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	4.5	
6	Ultrasound stimulus to enhance the bone regeneration capability of gelatin cryogels. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 846-9	0.9	
5	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	0.5	
4	A case of successful interaction between cells derived from human ovarian follicular liquid and gelatin cryogel for biotech and medical applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6240-3	0.9	

3 Natural hydrogels for bone tissue engineering **2022**, 743-770

2 Biopolymers as Novel Tool for Self-Sealing and Self-Healing of Mortar. *Materials Research Society Symposia Proceedings*, **2016**, 1813, 1

1 Preparation of Biological Scaffolds and Primary Intestinal Epithelial Cells to Efficiently 3D Model the Fish Intestinal Mucosa. *Methods in Molecular Biology*, **2021**, 2273, 263-278

1.4