

Alexander Southan

List of Publications by Year in descending order

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45
papers

689
citations

567281
15
h-index

610901
24
g-index

46
all docs

46
docs citations

46
times ranked

824
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of Substitution of Gelatin Methacryloyl: Best Practice and Current Pitfalls. <i>Biomacromolecules</i> , 2018, 19, 42-52.	5.4	93
2	Plant virus-based materials for biomedical applications: Trends and prospects. <i>Advanced Drug Delivery Reviews</i> , 2019, 145, 96-118.	13.7	66
3	Differentiation of physical and chemical cross-linking in gelatin methacryloyl hydrogels. <i>Scientific Reports</i> , 2021, 11, 3256.	3.3	44
4	Beyond the Modification Degree: Impact of Raw Material on Physicochemical Properties of Gelatin Type A and Type B Methacryloyls. <i>Macromolecular Bioscience</i> , 2018, 18, e1800168.	4.1	39
5	Highly Ordered Gelatin Methacryloyl Hydrogel Foams with Tunable Pore Size. <i>Biomacromolecules</i> , 2019, 20, 2666-2674.	5.4	33
6	Physical Interactions Strengthen Chemical Gelatin Methacryloyl Gels. <i>Gels</i> , 2019, 5, 4.	4.5	30
7	Precision 3D-Printed Cell Scaffolds Mimicking Native Tissue Composition and Mechanics. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000918.	7.6	29
8	Influence of shear thinning and material flow on robotic dispensing of poly(ethylene glycol) diacrylate/poloxamer 407 hydrogels. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45083.	2.6	23
9	Adenosine triphosphate diffusion through poly(ethylene glycol) diacrylate hydrogels can be tuned by cross-link density as measured by PFG-NMR. <i>Journal of Chemical Physics</i> , 2017, 146, 225101.	3.0	23
10	Evaluation of novel biomaterials for cartilage regeneration based on gelatin methacryloyl interpenetrated with extractive chondroitin sulfate or unsulfated biotechnological chondroitin. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1210-1223.	4.0	22
11	Side chain thiol-functionalized poly(ethylene glycol) by post-polymerization modification of hydroxyl groups: synthesis, crosslinking and inkjet printing. <i>Polymer Chemistry</i> , 2014, 5, 5350-5359.	3.9	20
12	Extrusion-Based 3D Printing of Poly(ethylene glycol) Diacrylate Hydrogels Containing Positively and Negatively Charged Groups. <i>Gels</i> , 2018, 4, 69.	4.5	20
13	Toward Controlling the Formation, Degradation Behavior, and Properties of Hydrogels Synthesized by Aza-Michael Reactions. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1865-1873.	2.2	18
14	Physically and chemically gelling hydrogel formulations based on poly(ethylene glycol) diacrylate and Poloxamer 407. <i>Polymer</i> , 2017, 108, 21-28.	3.8	16
15	Impact of intermediate UV curing and yield stress of 3D printed poly(ethylene glycol) diacrylate hydrogels on interlayer connectivity and maximum build height. <i>Additive Manufacturing</i> , 2017, 18, 136-144.	3.0	16
16	Photoinduced Cleavage and Hydrolysis of α -Nitrobenzyl Linker and Covalent Linker Immobilization in Gelatin Methacryloyl Hydrogels. <i>Macromolecular Bioscience</i> , 2018, 18, e1800104.	4.1	16
17	Optimisation of two-photon induced cleavage of molecular linker systems for drug delivery. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 210, 188-192.	3.9	14
18	Charged Triazole Cross-Linkers for Hyaluronan-Based Hybrid Hydrogels. <i>Materials</i> , 2016, 9, 810.	2.9	14

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19	Desmosine-Inspired Cross-Linkers for Hyaluronan Hydrogels. Scientific Reports, 2013, 3, 2043.	3.3	13
20	Interactions of methacryloylated gelatin and heparin modulate physico-chemical properties of hydrogels and release of vascular endothelial growth factor. Biomedical Materials (Bristol), 2018, 13, 055008.	3.3	13
21	Multi-axis 3D printing of gelatin methacryloyl hydrogels on a non-planar surface obtained from magnetic resonance imaging. Additive Manufacturing, 2022, 50, 102566.	3.0	10
22	Gelatin methacrylamide as coating material in cell culture. Biointerphases, 2016, 11, 021007.	1.6	9
23	Covalent incorporation of tobacco mosaic virus increases the stiffness of poly(ethylene glycol) diacrylate hydrogels. RSC Advances, 2018, 8, 4686-4694.	3.6	9
24	Azide-Functional Extracellular Matrix Coatings as a Bioactive Platform for Bioconjugation. ACS Applied Materials & Interfaces, 2020, 12, 26868-26879.	8.0	9
25	Cell-derived and enzyme-based decellularized extracellular matrix exhibit compositional and structural differences that are relevant for its use as a biomaterial. Biotechnology and Bioengineering, 2022, 119, 1142-1156.	3.3	9
26	Synthesis of Pyridine Acrylates and Acrylamides and Their Corresponding Pyridinium Ions as Versatile Cross-Linkers for Tunable Hydrogels. Synthesis, 2014, 46, 1243-1253.	2.3	8
27	Silicon Integrated Dual-Mode Interferometer with Differential Outputs. Biosensors, 2017, 7, 37.	4.7	8
28	Generation of an azide-modified extracellular matrix by adipose-derived stem cells using metabolic glycoengineering. Current Directions in Biomedical Engineering, 2019, 5, 393-395.	0.4	7
29	Acid catalyzed crosslinking of polyvinyl alcohol for humidifier membranes. Journal of Applied Polymer Science, 0, , 51606.	2.6	7
30	Active Ester Containing Surfmer for One-Stage Polymer Nanoparticle Surface Functionalization in Mini-Emulsion Polymerization. Polymers, 2018, 10, 408.	4.5	6
31	Hydrogels with multiple clickable anchor points: synthesis and characterization of poly(furfuryl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 4485-4494.	3.9	5
32	Hydrophobization of Tobacco Mosaic Virus to Control the Mineralization of Organic Templates. Nanomaterials, 2019, 9, 800.	4.1	5
33	Tailoring and visualising pore openings in gelatin-based hydrogel foams. Journal of Colloid and Interface Science, 2021, 588, 326-335.	9.4	5
34	An Advanced "clickECM"™ That Can be Modified by the Inverse"Electron"Demands Diels"Allder Reaction. ChemBioChem, 2022, 23, .	2.6	5
35	Photo-crosslinking and surface-attachment of polyvinyl alcohol nanocoatings by C,H insertion to customize their swelling behavior and stability in polar media. Polymer Chemistry, 2022, 13, 4273-4283.	3.9	5
36	Gelatin-Based Foamed and Non-foamed Hydrogels for Sorption and Controlled Release of Metoprolol. ACS Applied Polymer Materials, 2021, 3, 5674-5682.	4.4	4

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37	Triazole-based cross-linkers in radical polymerization processes: tuning mechanical properties of poly(acrylamide) and poly(<i>N,N</i> -dimethylacrylamide) hydrogels. RSC Advances, 2018, 8, 34743-34753.	3.6	3
38	Expanding the Range of Available Isoelectric Points of Highly Methacryloylated Gelatin. Macromolecular Chemistry and Physics, 2019, 220, 1900097.	2.2	3
39	Coumarin-4-methyl- and -Hydroxyphenacyl-Based Photoacid Generators with High Solubility in Aqueous Media: Synthesis, Stability and Photolysis. ChemPhotoChem, 2020, 4, 207-217.	3.0	3
40	Eclectic characterisation of chemically modified cell-derived matrices obtained by metabolic glycoengineering and re-assessment of commonly used methods. RSC Advances, 2020, 10, 35273-35286.	3.6	3
41	Structure–property relations of amphiphilic poly(furfuryl glycidyl ether)- <i>block</i> -poly(ethylene) Tj ETQq1 1 0,784314 rgBT /Overlo	3.9	2
42	Azido-functionalized gelatin via direct conversion of lysine amino groups by diazo transfer as a building block for biofunctional hydrogels. Journal of Biomedical Materials Research - Part A, 2021, 109, 77-91.	4.0	1
43	New Gelatin-Based Hydrogel Foams for Improved Substrate Conversion of Immobilized Horseradish Peroxidase. Macromolecular Bioscience, 0, , 2200139.	4.1	1
44	Biofunktionale Tinten mit einstellbaren Eigenschaften für Bioprinting und additive Fertigungsverfahren. Chemie-Ingenieur-Technik, 2018, 90, 1195-1196.	0.8	0
45	High Precision 3D Bio-printing: Precision 3D-Printed Cell Scaffolds Mimicking Native Tissue Composition and Mechanics (Adv. Healthcare Mater. 24/2020). Advanced Healthcare Materials, 2020, 9, 2070087.	7.6	0