# Alexander Southan

## List of Publications by Year in Descending Order



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| 39 papers | 396 citations | 12 h-index | 19 g-index |
| 46 ext. papers | 538 ext. citations | 4.9 avg, IF | 3.75 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 39 | Multi-axis 3D printing of gelatin methacryloyl hydrogels on a non-planar surface obtained from magnetic resonance imaging. *Additive Manufacturing*, **2022**, 50, 102566 | 6.1 | 0 |
| 38 | Tailoring and visualising pore openings in gelatin-based hydrogel foams. *Journal of Colloid and Interface Science*, **2021**, 588, 326-335 | 9.3 | 3 |
| 37 | 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 | 5.4 | 0 |
| 36 | Differentiation of physical and chemical cross-linking in gelatin methacryloyl hydrogels. *Scientific Reports*, **2021**, 11, 3256 | 4.9 | 9 |
| 35 | Azide-Functional Extracellular Matrix Coatings as a Bioactive Platform for Bioconjugation. *ACS Applied Materials & Interfaces*, **2020**, 12, 26868-26879 | 9.5 | 4 |
| 34 | 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 | 10.1 | |
| 33 | Coumarin-4-ylmethyl- and p-Hydroxyphenacyl-Based Photoacid Generators with High Solubility in Aqueous Media: Synthesis, Stability and Photolysis. *ChemPhotoChem*, **2020**, 4, 207-217 | 3.3 | 2 |
| 32 | 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 | 3.7 | 0 |
| 31 | Precision 3D-Printed Cell Scaffolds Mimicking Native Tissue Composition and Mechanics. *Advanced Healthcare Materials*, **2020**, 9, e2000918 | 10.1 | 12 |
| 30 | Structure□property relations of amphiphilic poly(furfuryl glycidyl ether)-block-poly(ethylene glycol) macromonomers at the air□water interface. *Polymer Chemistry*, **2020**, 11, 5659-5668 | 4.9 | 1 |
| 29 | Physical Interactions Strengthen Chemical Gelatin Methacryloyl Gels. *Gels*, **2019**, 5, | 4.2 | 17 |
| 28 | Highly Ordered Gelatin Methacryloyl Hydrogel Foams with Tunable Pore Size. *Biomacromolecules*, **2019**, 20, 2666-2674 | 6.9 | 14 |
| 27 | Hydrophobization of Tobacco Mosaic Virus to Control the Mineralization of Organic Templates. *Nanomaterials*, **2019**, 9, | 5.4 | 2 |
| 26 | Expanding the Range of Available Isoelectric Points of Highly Methacryloylated Gelatin. *Macromolecular Chemistry and Physics*, **2019**, 220, 1900097 | 2.6 | 0 |
| 25 | Hydrogels with multiple clickable anchor points: synthesis and characterization of poly(furfuryl glycidyl ether)-block-poly(ethylene glycol) macromonomers. *Polymer Chemistry*, **2019**, 10, 4485-4494 | 4.9 | 5 |
| 24 | Generation of an azide-modified extracellular matrix by adipose-derived stem cells using metabolic glycoengineering. *Current Directions in Biomedical Engineering*, **2019**, 5, 393-395 | 0.5 | 4 |
| 23 | Plant virus-based materials for biomedical applications: Trends and prospects. *Advanced Drug Delivery Reviews*, **2019**, 145, 96-118 | 18.5 | 47 |

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| 22 | Covalent incorporation of tobacco mosaic virus increases the stiffness of poly(ethylene glycol) diacrylate hydrogels.. *RSC Advances*, **2018**, 8, 4686-4694 | 3.7 | 8 |
| 21 | Active Ester Containing Surfmer for One-Stage Polymer Nanoparticle Surface Functionalization in Mini-Emulsion Polymerization. *Polymers*, **2018**, 10, | 4.5 | 5 |
| 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 | 3.5 | 8 |
| 19 | Quantification of Substitution of Gelatin Methacryloyl: Best Practice and Current Pitfalls. *Biomacromolecules*, **2018**, 19, 42-52 | 6.9 | 59 |
| 18 | Triazole-based cross-linkers in radical polymerization processes: tuning mechanical properties of poly(acrylamide) and poly(-dimethylacrylamide) hydrogels.. *RSC Advances*, **2018**, 8, 34743-34753 | 3.7 | 2 |
| 17 | Biofunktionale Tinten mit einstellbaren Eigenschaften f□ Bioprinting und additive Fertigungsverfahren. *Chemie-Ingenieur-Technik*, **2018**, 90, 1195-1196 | 0.8 | |
| 16 | Beyond the Modification Degree: Impact of Raw Material on Physicochemical Properties of Gelatin Type A and Type B Methacryloyls. *Macromolecular Bioscience*, **2018**, 18, e1800168 | 5.5 | 23 |
| 15 | Extrusion-Based 3D Printing of Poly(ethylene glycol) Diacrylate Hydrogels Containing Positively and Negatively Charged Groups. *Gels*, **2018**, 4, | 4.2 | 15 |
| 14 | Photoinduced Cleavage and Hydrolysis of o-Nitrobenzyl Linker and Covalent Linker Immobilization in Gelatin Methacryloyl Hydrogels. *Macromolecular Bioscience*, **2018**, 18, e1800104 | 5.5 | 9 |
| 13 | Physically and chemically gelling hydrogel formulations based on poly(ethylene glycol) diacrylate and Poloxamer 407. *Polymer*, **2017**, 108, 21-28 | 3.9 | 12 |
| 12 | Influence of shear thinning and material flow on robotic dispensing of poly(ethylene glycol) diacrylate/poloxamer 407 hydrogels. *Journal of Applied Polymer Science*, **2017**, 134, 45083 | 2.9 | 21 |
| 11 | Impact of intermediate UV curing and yield stress of 3D printed poly(ethylene glycol) diacrylate hydrogels on interlayer connectivity and maximum build height. *Additive Manufacturing*, **2017**, 18, 136-144 | 6.1 | 14 |
| 10 | Adenosine triphosphate diffusion through poly(ethylene glycol) diacrylate hydrogels can be tuned by cross-link density as measured by PFG-NMR. *Journal of Chemical Physics*, **2017**, 146, 225101 | 3.9 | 11 |
| 9 | Silicon Integrated Dual-Mode Interferometer with Differential Outputs. *Biosensors*, **2017**, 7, | 5.9 | 1 |
| 8 | Charged Triazole Cross-Linkers for Hyaluronan-Based Hybrid Hydrogels. *Materials*, **2016**, 9, | 3.5 | 10 |
| 7 | Gelatin methacrylamide as coating material in cell culture. *Biointerphases*, **2016**, 11, 021007 | 1.8 | 8 |
| 6 | Side chain thiol-functionalized poly(ethylene glycol) by post-polymerization modification of hydroxyl groups: synthesis, crosslinking and inkjet printing. *Polymer Chemistry*, **2014**, 5, 5350-5359 | 4.9 | 16 |
| 5 | Synthesis of Pyridine Acrylates and Acrylamides and Their Corresponding Pyridinium Ions as Versatile Cross-Linkers for Tunable Hydrogels. *Synthesis*, **2014**, 46, 1243-1253 | 2.9 | 8 |

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| 4 | Toward Controlling the Formation, Degradation Behavior, and Properties of Hydrogels Synthesized by Aza-Michael Reactions. *Macromolecular Chemistry and Physics*, **2013**, 214, 1865-1873 | 2.6 | 17 |
| 3 | Desmosine-inspired cross-linkers for hyaluronan hydrogels. *Scientific Reports*, **2013**, 3, 2043 | 4.9 | 12 |
| 2 | Optimisation of two-photon induced cleavage of molecular linker systems for drug delivery. *Journal of Photochemistry and Photobiology A: Chemistry*, **2010**, 210, 188-192 | 4.7 | 13 |
| 1 | Acid catalyzed cross-linking of polyvinyl alcohol for humidifier membranes. *Journal of Applied Polymer Science*,51606 | 2.9 | 1 |