

Stefan Baudis

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,331
citations

471509

17
h-index

361022

35
g-index

56
all docs

56
docs citations

56
times ranked

1977
citing authors

#	ARTICLE	IF	CITATIONS
1	Photopolymers with tunable mechanical properties processed by laser-based high-resolution stereolithography. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 125014.	2.6	191
2	Biodegradable, thermoplastic polyurethane grafts for small diameter vascular replacements. <i>Acta Biomaterialia</i> , 2015, 11, 104-113.	8.3	107
3	Real Time-NIR/MIR-Photorheology: A Versatile Tool for the <i>in Situ</i> Characterization of Photopolymerization Reactions. <i>Analytical Chemistry</i> , 2017, 89, 4958-4968.	6.5	90
4	A highly efficient waterborne photoinitiator for visible-light-induced three-dimensional printing of hydrogels. <i>Chemical Communications</i> , 2018, 54, 920-923.	4.1	77
5	Highly Reactive Thiol-Norbornene Photo-Click Hydrogels: Toward Improved Processability. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800181.	3.9	77
6	Thiol-Gelatin-Norbornene Bioink for Laser-Based High-Definition Bioprinting. <i>Advanced Healthcare Materials</i> , 2020, 9, e1900752.	7.6	75
7	Impact of Hydrogel Stiffness on Differentiation of Human Adipose-Derived Stem Cell Microspheroids. <i>Tissue Engineering - Part A</i> , 2019, 25, 1369-1380.	3.1	71
8	Metallo-Supramolecular Gels that are Photocleavable with Visible and Near-Infrared Irradiation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15857-15860.	13.8	62
9	Elastomeric degradable biomaterials by photopolymerization-based CAD-CAM for vascular tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 055003.	3.3	51
10	Differentiation of physical and chemical cross-linking in gelatin methacryloyl hydrogels. <i>Scientific Reports</i> , 2021, 11, 3256.	3.3	44
11	(Meth)acrylate-based photoelastomers as tailored biomaterials for artificial vascular grafts. <i>Journal of Polymer Science Part A</i> , 2009, 47, 2664-2676.	2.3	42
12	Hard block degradable thermoplastic urethane-elastomers for electrospun vascular prostheses. <i>Journal of Polymer Science Part A</i> , 2012, 50, 1272-1280.	2.3	42
13	Combining cure depth and cure degree, a new way to fully characterize novel photopolymers. <i>Additive Manufacturing</i> , 2018, 24, 166-172.	3.0	40
14	Modular material system for the microfabrication of biocompatible hydrogels based on thiol-ene-modified poly(vinyl alcohol). <i>Journal of Polymer Science Part A</i> , 2016, 54, 2060-2070.	2.3	36
15	Long Term Evaluation of Nanofibrous, Bioabsorbable Polycarbonate Urethane Grafts for Small Diameter Vessel Replacement in Rodents. <i>European Journal of Vascular and Endovascular Surgery</i> , 2020, 59, 643-652.	1.5	25
16	Surface characterization and protein interaction of a series of model poly[acrylonitrile-co-(N-vinyl)] Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 87-96.	5.2	22
17	Gelatin methacryloyl as environment for chondrocytes and cell delivery to superficial cartilage defects. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2022, 16, 207-222.	2.7	22
18	Hard Block Degradable Polycarbonate Urethanes: Promising Biomaterials for Electrospun Vascular Prostheses. <i>Biomacromolecules</i> , 2020, 21, 376-387.	5.4	21

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19	Hyaluronic acid vinyl esters: A toolbox toward controlling mechanical properties of hydrogels for 3D microfabrication. <i>Journal of Polymer Science</i> , 2020, 58, 1288-1298.	3.8	20
20	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
21	Thiol-ene Cross-linking of Poly(ethylene glycol) within High Internal Phase Emulsions: Degradable Hydrophilic PolyHIPEs for Controlled Drug Release. <i>Macromolecules</i> , 2021, 54, 10370-10380.	4.8	16
22	Smart Polymers for Biomedical Applications. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 2399-2402.	2.2	14
23	Effect of diisocyanate linkers on the degradation characteristics of copolyester urethanes as potential drug carrier matrices. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 95, 18-26.	4.3	14
24	A structural reconsideration: Linear aliphatic or alicyclic hard segments for biodegradable thermoplastic polyurethanes?. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2214-2224.	2.3	13
25	High-Throughput and Combinatorial Approaches for the Development of Multifunctional Polymers. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100400.	3.9	13
26	Durch sichtbares Licht und Nahinfrarotstrahlung abbaubare supramolekulare Metallo-Gele. <i>Angewandte Chemie</i> , 2017, 129, 16071-16075.	2.0	12
27	The interaction of adipose-derived human mesenchymal stem cells and polyether ether ketone. <i>Clinical Hemorheology and Microcirculation</i> , 2015, 61, 301-321.	1.7	11
28	Photopolymerizable Elastomers for Vascular Tissue Regeneration. <i>Macromolecular Symposia</i> , 2010, 296, 121-126.	0.7	10
29	Photopolymerizable precursors for degradable biomaterials based on acetal moieties. <i>European Polymer Journal</i> , 2021, 154, 110536.	5.4	10
30	High-Throughput Synthesis as a Technology Platform for Copolymer Libraries. <i>Macromolecular Symposia</i> , 2014, 345, 105-111.	0.7	9
31	Toughness enhancers for bone scaffold materials based on biocompatible photopolymers. <i>Journal of Polymer Science Part A</i> , 2019, 57, 110-119.	2.3	9
32	Assessment of a long-term in vitro model to characterize the mechanical behavior and macrophage-mediated degradation of a novel, degradable, electrospun poly-urethane vascular graft. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 112, 104077.	3.1	9
33	Guiding cell migration in 3D with high-resolution photografting. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
34	High Throughput Characterization of Polymer Libraries by Diffuse Reflectance Infrared Spectroscopy. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 1292-1297.	3.6	7
35	Study on Modified Dealkaline Lignin as Visible Light Macromolecular Photoinitiator for 3D Printing. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	6
36	Increasing the Microfabrication Performance of Synthetic Hydrogel Precursors through Molecular Design. <i>Biomacromolecules</i> , 2021, 22, 4919-4932.	5.4	6

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37	Photopolymerizable Materials for Cell Encapsulation. , 2018, , 353-396.		5
38	Shape-Memory Polymer Networks Prepared from Star-Shaped Poly[(L-lactide)-co-glycolide] Precursors. Macromolecular Symposia, 2014, 345, 98-104.	0.7	4
39	Single-Molecule Force Spectroscopy Reveals Adhesion-by-Demand in Statherin at the Protein-Hydroxyapatite Interface. Langmuir, 2020, 36, 13292-13300.	3.5	4
40	A disulfide-based linker for thiol-norbornene conjugation: formation and cleavage of hydrogels by the use of light. Polymer Chemistry, 2022, 13, 1158-1168.	3.9	4
41	Hybrid Hydrogel Networks by Photocrosslinking of Thermo-responsive \pm taconyl-PLGA-PEG-PLGA Micelles in Water: Influence of the Lithium Phenyl-2,4,6-trimethylbenzoylphosphinate Photoinitiator. Macromolecular Chemistry and Physics, 2020, 221, 2000165.	2.2	3
42	Biomimetic adhesion motifs based on RAFT polymers with phosphonate groups. European Polymer Journal, 2021, 143, 110188.	5.4	3
43	Characterization of bi-layered magnetic nanoparticles synthesized via two-step surface-initiated ring-opening polymerization. Pure and Applied Chemistry, 2015, 87, 1085-1097.	1.9	2
44	3D-printing of Urethane-based Photoelastomers for Vascular Tissue Regeneration. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	1
45	(Bio)degradable Urethane-Elastomers for Electrospun Vascular Grafts. Materials Research Society Symposia Proceedings, 2009, 1235, 1.	0.1	1
46	Robot Assisted Synthesis and Characterization of Polyester-based Polyurethanes. Materials Research Society Symposia Proceedings, 2015, 1718, 109-115.	0.1	1
47	Robot Assisted Polyurethane Chain Extension of Dihydroxy Telechelic Depsipeptides. MRS Advances, 2016, 1, 2003-2009.	0.9	1
48	Knochen, Knorpel und GefÄschneidern mit Licht. Nachrichten Aus Der Chemie, 2016, 64, 406-410.	0.0	1
49	Polymer Networks for Enrichment of Calcium Ions. Polymers, 2021, 13, 3506.	4.5	1
50	Approaching new biomaterials: copolymerization characteristics of vinyl esters with norbornenes, allyl esters and allyl ethers. Polymer International, 2022, 71, 790-796.	3.1	1
51	Additive manufactured, biocompatible hydrogels based on hyaluronic acid. Frontiers in Bioengineering and Biotechnology, 0, 4, .	4.1	1
52	From macromolecules to materials to systems. Polymers for Advanced Technologies, 2014, 25, 1187-1188.	3.2	0
53	Poly(vinyl alcohol) based hydrogels for 3D biomaterial constructs. Frontiers in Bioengineering and Biotechnology, 0, 4, .	4.1	0
54	From space group to space groupoid: the partial symmetry of low-temperature E-vanillyl oxime. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 733-741.	1.1	0