Robert Liska

List of Publications by Year
in descending order

208 papers	11,160 citations	30068 54 h-index	34984 98 g-index
229 all docs	229 docs citations	229 times ranked	9797 citing authors

#	Article	IF	Citations
1	Polymers for 3D Printing and Customized Additive Manufacturing. Chemical Reviews, 2017, 117, 10212-10290.	47.7	2,383
2	Strategies to Reduce Oxygen Inhibition in Photoinduced Polymerization. Chemical Reviews, 2014, 114, 557-589.	47.7	520
3	Toughening of photo-curable polymer networks: a review. Polymer Chemistry, 2016, 7, 257-286.	3.9	308
4	Benzoyl germanium derivatives as novel visible light photoinitiators for dental materials. Dental Materials, 2008, 24, 901-907.	3.5	260
5	Photopolymers with tunable mechanical properties processed by laser-based high-resolution stereolithography. Journal of Micromechanics and Microengineering, 2008, 18, 125014.	2.6	191
6	Hydrogels for Twoâ€Photon Polymerization: A Toolbox for Mimicking the Extracellular Matrix. Advanced Functional Materials, 2013, 23, 4542-4554.	14.9	191
7	New Photocleavable Structures. Diacylgermane-Based Photoinitiators for Visible Light Curing. Macromolecules, 2008, 41, 2394-2400.	4.8	164
8	Lithographyâ€Based Additive Manufacturing of Cellular Ceramic Structures. Advanced Engineering Materials, 2012, 14, 1052-1058.	3.5	161
9	Laser Photofabrication of Cell-Containing Hydrogel Constructs. Langmuir, 2014, 30, 3787-3794.	3.5	159
10	A Straightforward Synthesis and Structureâ€“Activity Relationship of Highly Efficient Initiators for Two-Photon Polymerization. Macromolecules, 2013, 46, 352-361.	4.8	158
11	Direct Visualization of Excited-State Symmetry Breaking Using Ultrafast Time-Resolved Infrared Spectroscopy. Journal of the American Chemical Society, 2016, 138, 4643-4649.	13.7	157
12	Processing of 45S5 BioglassÂ® by lithography-based additive manufacturing. Materials Letters, 2012, 74, 81-84.	2.6	150
13	Engineering 3D cell-culture matrices: multiphoton processing technologies for biological and tissue engineering applications. Expert Review of Medical Devices, 2012, 9, 613-633.	2.8	140
14	Vinyl esters: Low cytotoxicity monomers for the fabrication of biocompatible 3D scaffolds by lithography based additive manufacturing. Journal of Polymer Science Part A, 2009, 47, 6941-6954.	2.3	133
15	Photo-sensitive hydrogels for three-dimensional laser microfabrication in the presence of whole organisms. Journal of Biomedical Optics, 2012, 17, 1.	2.6	117
16	Initiation efficiency and cytotoxicity of novel water-soluble two-photon photoinitiators for direct 3D microfabrication of hydrogels. RSC Advances, 2013, 3, 15939.	3.6	117
17	Biodegradable, thermoplastic polyurethane grafts for small diameter vascular replacements. Acta Biomaterialia, 2015, 11, 104-113.	8.3	107
18	Highly efficient water-soluble visible light photoinitiators. Journal of Polymer Science Part A, 2016, 54, 473-479.	2.3	107

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19	Cross-Linkable Gelatins with Superior Mechanical Properties Through Carboxylic Acid Modification: Increasing the Two-Photon Polymerization Potential. Biomacromolecules, 2017, 18, 3260-3272.	5.4	104
20	Tetraacylgermanes: Highly Efficient Photoinitiators for Visibleâ€Lightâ€Induced Freeâ€Radical Polymerization. Angewandte Chemie - International Edition, 2017, 56, 3103-3107.	13.8	97
21	Visible Light Photoinitiator for 3D-Printing of Tough Methacrylate Resins. Materials, 2017, 10, 1445.	2.9	96
22	Acylgermanes: Photoinitiators and Sources for Ge-Centered Radicals. Insights into their Reactivity. Journal of the American Chemical Society, 2013, 135, 17314-17321.	13.7	95
23	Multilength Scale Patterning of Functional Layers by Roll-to-Roll Ultraviolet-Light-Assisted Nanoimprint Lithography. ACS Nano, 2016, 10, 4926-4941.	14.6	94
24	Structureâˆ'Activity Relationship in D-Ï€-A-Ï€-D-Based Photoinitiators for the Two-Photon-Induced Photopolymerization Process. Macromolecules, 2009, 42, 6519-6528.	4.8	92
25	Real Time-NIR/MIR-Photorheology: A Versatile Tool for the <i>in Situ</i> Characterization of Photopolymerization Reactions. Analytical Chemistry, 2017, 89, 4958-4968.	6.5	90
26	New Photocleavable Structures, 4. Macromolecular Rapid Communications, 2008, 29, 57-62.	3.9	88
27	Photoinitiators with functional groups. V. New water-soluble photoinitiators containing carbohydrate residues and copolymerizable derivatives thereof. Journal of Polymer Science Part A, 2002, 40, 1504-1518.	2.3	80
28	Synthesis and structureâ€activity relationship of several aromatic ketoneâ€based twoâ€photon initiators. Journal of Polymer Science Part A, 2011, 49, 3688-3699.	2.3	80
29	Functional polymers by two-photon 3D lithography. Applied Surface Science, 2007, 254, 836-840.	6.1	78
30	Efficient stabilization of thiol-ene formulations in radical photopolymerization. Journal of Polymer Science Part A, 2013, 51, 4261-4266.	2.3	77
31	A highly efficient waterborne photoinitiator for visible-light-induced three-dimensional printing of hydrogels. Chemical Communications, 2018, 54, 920-923.	4.1	77
32	Additive manufacturing of photosensitive hydrogels for tissue engineering applications. BioNanoMaterials, 2014, 15, .	1.4	76
33	Three-dimensional microfabrication of protein hydrogels via two-photon-excited thiol-vinyl ester photopolymerization. Journal of Polymer Science Part A, 2013, 51, 4799-4810.	2.3	74
34	Rapid formation of regulated methacrylate networks yielding tough materials for lithography-based 3D printing. Polymer Chemistry, 2016, 7, 2009-2014.	3.9	74
35	3D high-resolution two-photon crosslinked hydrogel structures for biological studies. Acta Biomaterialia, 2017, 55, 373-384.	8.3	72
36	Hot Lithography vs. room temperature DLP 3D-printing of a dimethacrylate. Additive Manufacturing, 2018, 21, 209-214.	3.0	72

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37	The formulator's guide to anti-oxygen inhibition additives. Progress in Organic Coatings, 2014, 77, 1789-1798.	3.9	70
38	Successful radical induced cationic frontal polymerization of epoxy-based monomers by Câ€“C labile compounds. Polymer Chemistry, 2015, 6, 8161-8167.	3.9	70
39	Fabrication of biomimetic placental barrier structures within a microfluidic device utilizing two-photon polymerization. International Journal of Bioprinting, 2018, 4, 144.	3.4	69
40	Hierarchically Porous Materials from Layerâ€byâ€Layer Photopolymerization of High Internal Phase Emulsions. Macromolecular Rapid Communications, 2013, 34, 938-943.	3.9	68
41	Enzymatic synthesis of hyaluronic acid vinyl esters for two-photon microfabrication of biocompatible and biodegradable hydrogel constructs. Polymer Chemistry, 2014, 5, 6523-6533.	3.9	68
42	A Modular Approach to Sensitized Twoâ€Photon Patterning of Photodegradable Hydrogels. Angewandte Chemie - International Edition, 2018, 57, 15122-15127.	13.8	68
43	Photoinitiators with functional groups. IX. Hydrophilic bisacylphosphine oxides for acidic aqueous formulations. Journal of Polymer Science Part A, 2006, 44, 1686-1700.	2.3	67
44	Novel photoacid generators for cationic photopolymerization. Polymer Chemistry, 2017, 8, 4414-4421.	3.9	67
45	Laser 3D Printing with Subâ€Microscale Resolution of Porous Elastomeric Scaffolds for Supporting Human Bone Stem Cells. Advanced Healthcare Materials, 2015, 4, 739-747.	7.6	65
46	Vinyl carbonates, vinyl carbamates, and related monomers: synthesis, polymerization, and application. Chemical Society Reviews, 2012, 41, 2395-2405.	38.1	62
47	Metalloâ€Supramolecular Gels that are Photocleavable with Visible and Nearâ€Infrared Irradiation. Angewandte Chemie - International Edition, 2017, 56, 15857-15860.	13.8	62
48	Thiolâ€ene photopolymerization for efficient curing of vinyl esters. Journal of Polymer Science Part A, 2013, 51, 203-212.	2.3	61
49	Acylstannanes: Cleavable and Highly Reactive Photoinitiators for Radical Photopolymerization at Wavelengths above 500â€…nm with Excellent Photobleaching Behavior. Angewandte Chemie - International Edition, 2018, 57, 12146-12150.	13.8	61
50	Î²-Allyl Sulfones as Additionâ€“Fragmentation Chain Transfer Reagents: A Tool for Adjusting Thermal and Mechanical Properties of Dimethacrylate Networks. Macromolecules, 2014, 47, 7327-7336.	4.8	60
51	Exploring the benefits of Î²-allyl sulfones for more homogeneous dimethacrylate photopolymer networks. Polymer Chemistry, 2015, 6, 2038-2047.	3.9	60
52	Hybrid Tissue Engineering Scaffolds by Combination of Three-Dimensional Printing and Cell Photoencapsulation. Journal of Nanotechnology in Engineering and Medicine, 2015, 6, 0210011-210017.	0.8	59
53	Water-soluble photopolymers for rapid prototyping of cellular materials. Journal of Applied Polymer Science, 2005, 97, 2286-2298.	2.6	56
54	Phenylglycine derivatives as coinitiators for the radical photopolymerization of acidic aqueous formulations. Journal of Polymer Science Part A, 2006, 44, 115-125.	2.3	56

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55	Photoinitiators with Functional Groups, 8. Macromolecular Rapid Communications, 2005, 26, 1687-1692.	3.9	55
56	A biocompatible diazosulfonate initiator for direct encapsulation of human stem cells <i>via</i> two-photon polymerization. Polymer Chemistry, 2018, 9, 3108-3117.	3.9	55
57	Solvent tuning of photochemistry upon excited-state symmetry breaking. Nature Communications, 2020, 11, 1925.	12.8	54
58	New Materials for Rapid Prototyping Applications. Macromolecular Chemistry and Physics, 2005, 206, 1253-1256.	2.2	52
59	Elastomeric degradable biomaterials by photopolymerization-based CAD-CAM for vascular tissue engineering. Biomedical Materials (Bristol), 2011, 6, 055003.	3.3	51
60	A biocompatible macromolecular two-photon initiator based on hyaluronan. Polymer Chemistry, 2017, 8, 451-460.	3.9	49
61	Fabrication and moulding of cellular materials by rapid prototyping. International Journal of Materials and Product Technology, 2004, 21, 285.	0.2	48
62	Evaluation of 3D structures fabricated with two-photon-photopolymerization by using FTIR spectroscopy. Journal of Applied Physics, 2011, 110, .	2.5	47
63	Radical induced cationic frontal polymerization as a versatile tool for epoxy curing and composite production. Journal of Polymer Science Part A, 2016, 54, 3751-3759.	2.3	47
64	Gelatinâ€based photopolymers for bone replacement materials. Journal of Polymer Science Part A, 2009, 47, 7078-7089.	2.3	44
65	Vinylcarbonates and vinylcarbamates: Biocompatible monomers for radical photopolymerization. Journal of Polymer Science Part A, 2011, 49, 650-661.	2.3	44
66	Vinyl Sulfonate Esters: Efficient Chain Transfer Agents for the 3D Printing of Tough Photopolymers without Retardation. Angewandte Chemie - International Edition, 2018, 57, 9165-9169.	13.8	44
67	Development of Synthetic Plateletâ€Activating Hydrogel Matrices to Induce Local Hemostasis. Advanced Functional Materials, 2015, 25, 6606-6617.	14.9	43
68	(Meth)acrylateâ€based photoelastomers as tailored biomaterials for artificial vascular grafts. Journal of Polymer Science Part A, 2009, 47, 2664-2676.	2.3	42
69	Youngâ€™s modulus measurement of two-photon polymerized micro-cantilevers by using nanoindentation equipment. Journal of Applied Physics, 2012, 112, .	2.5	42
70	Hardâ€block degradable thermoplastic urethaneâ€elastomers for electrospun vascular prostheses. Journal of Polymer Science Part A, 2012, 50, 1272-1280.	2.3	42
71	Oxygen Management at the Microscale: A Functional Biochip Material with Long-Lasting and Tunable Oxygen Scavenging Properties for Cell Culture Applications. ACS Applied Materials & Interfaces, 2019, 11, 9730-9739.	8.0	42
72	Cleavable Unimolecular Photoinitiators Based on Oximeâ€Ester Chemistry for Twoâ€Photon Threeâ€Dimensional Printing. ChemPhotoChem, 2019, 3, 1090-1094.	3.0	40

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73	Evaluation of Biocompatible Photopolymers II: Further Reactive Diluents. Monatshefte FÃ¼r Chemie, 2007, 138, 261-268.	1.8	38
74	Oxygen scavengers and sensitizers for reduced oxygen inhibition in radical photopolymerization. Journal of Polymer Science Part A, 2008, 46, 6916-6927.	2.3	38
75	Visible light induced free radical promoted cationic polymerization using acylsilanes. Progress in Organic Coatings, 2019, 132, 139-143.	3.9	37
76	Photoinitiators with functional groups. VII. Covalently bonded camphorquinone?amines. Journal of Polymer Science Part A, 2004, 42, 4948-4963.	2.3	36
77	One- and two-photon activity of cross-conjugated photoinitiators with bathochromic shift. Journal of Polymer Science Part A, 2007, 45, 3280-3291.	2.3	36
78	Modular material system for the microfabrication of biocompatible hydrogels based on thiol-ene-modified poly(vinyl alcohol). Journal of Polymer Science Part A, 2016, 54, 2060-2070.	2.3	36
79	Radical induced cationic frontal polymerization for preparation of epoxy composites. Composites Part A: Applied Science and Manufacturing, 2020, 132, 105855.	7.6	36
80	New photocleavable structures. II. ?-Cleavable photoinitiators based on pyridines. Journal of Polymer Science Part A, 2004, 42, 752-764.	2.3	35
81	Degradable Glycineâ€Based Photoâ€Polymerizable Polyphosphazenes for Use as Scaffolds for Tissue Regeneration. Macromolecular Bioscience, 2015, 15, 351-363.	4.1	35
82	Direct Observation of a Photochemical Alkyneâ€"Allene Reaction and of a Twisted and Rehybridized Intramolecular Charge-Transfer State in a Donorâ€"Acceptor Dyad. Journal of the American Chemical Society, 2017, 139, 16885-16893.	13.7	35
83	Selective Functionalization of 3D Matrices Via Multiphoton Grafting and Subsequent Click Chemistry. Advanced Functional Materials, 2012, 22, 3429-3433.	14.9	34
84	Successful UVâ€Induced RICFP of Epoxyâ€Composites. Macromolecular Chemistry and Physics, 2017, 218, 1700313.	2.2	34
85	Biomaterials based on low cytotoxic vinyl esters for bone replacement application. Journal of Polymer Science Part A, 2011, 49, 4927-4934.	2.3	33
86	Microcellular Open Porous Monoliths for Cell Growth by Thiol-Ene Polymerization of Low-Toxicity Monomers in High Internal Phase Emulsions. Macromolecular Bioscience, 2015, 15, 253-261.	4.1	33
87	Exploring Network Formation of Tough and Biocompatible Thiolâ€yne Based Photopolymers. Macromolecular Rapid Communications, 2016, 37, 1701-1706.	3.9	33
88	Wavelength-optimized Two-Photon Polymerization Using Initiators Based on Multipolar Aminostyryl-1,3,5-triazines. Scientific Reports, 2018, 8, 17273.	3.3	32
89	Hotâ€Lithography SLAâ€3D Printing of Epoxy Resin. Macromolecular Materials and Engineering, 2020, 305, 2000325.	3.6	32
90	Decisive Reaction Steps at Initial Stages of Photoinitiated Radical Polymerizations. Angewandte Chemie - International Edition, 2009, 48, 9359-9361.	13.8	31

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91	Efficient Curing of Vinyl Carbonates by Thiolâ€Ene Polymerization. Macromolecular Rapid Communications, 2012, 33, 2046-2052.	3.9	29
92	Functionalized Bead Assay to Measure Three-dimensional Traction Forces during T-cell Activation. Nano Letters, 2021, 21, 507-514.	9.1	28
93	Photoinitiating monomers based on diâ€and triacryloylated hydroxylamine derivatives. Journal of Polymer Science Part A, 2009, 47, 392-403.	2.3	27
94	Synthesis of bis(3-{[2-(allyloxy)ethoxy]methyl}-2,4,6-trimethylbenzoyl)(phenyl)phosphine oxide â€“ a tailor-made photoinitiator for dental adhesives. Beilstein Journal of Organic Chemistry, 2010, 6, 26.	2.2	27
95	3D optical waveguides produced by two photon photopolymerisation of a flexible silanol terminated polysiloxane containing acrylate functional groups. Optical Materials Express, 2014, 4, 486.	3.0	27
96	Radical induced cationic frontal polymerization in thin layers. Journal of Polymer Science Part A, 2019, 57, 1155-1159.	2.3	27
97	Porous polysilazane-derived ceramic structures generated through photopolymerization-assisted solidification templating. Journal of the European Ceramic Society, 2019, 39, 838-845.	5.7	26
98	Enhanced reduction of polymerization-induced shrinkage stress <i>via</i> combination of radical ring opening and addition fragmentation chain transfer. Polymer Chemistry, 2019, 10, 1357-1366.	3.9	25
99	UV-Induced Cationic Ring-Opening Polymerization of 2-Oxazolines for Hot Lithography. ACS Macro Letters, 2020, 9, 546-551.	4.8	25
100	1,5-Diphenyl-1,4-diyn-3-one: A highly efficient photoinitiator. Journal of Polymer Science Part A, 2005, 43, 101-111.	2.3	24
101	3D-shaping of biodegradable photopolymers for hard tissue replacement. Applied Surface Science, 2007, 254, 1131-1134.	6.1	24
102	Allyl sulfides and Î±â€substituted acrylates as additionâ€“fragmentation chain transfer agents for methacrylate polymer networks. Journal of Polymer Science Part A, 2016, 54, 394-406.	2.3	24
103	Î±-Ketoesters as Nonaromatic Photoinitiators for Radical Polymerization of (Meth)acrylates. Macromolecules, 2019, 52, 2814-2821.	4.8	24
104	Photopolymerization of biocompatible phosphorusâ€containing vinyl esters and vinyl carbamates. Journal of Polymer Science Part A, 2010, 48, 2916-2924.	2.3	23
105	Benzoyl Phenyltelluride as Highly Reactive Visible-Light TERP-Reagent for Controlled Radical Polymerization. Macromolecules, 2014, 47, 5526-5531.	4.8	23
106	Two-photon-induced thiol-ene polymerization as a fabrication tool for flexible optical waveguides. Designed Monomers and Polymers, 2014, 17, 390-400.	1.6	23
107	The influence of vinyl activating groups on Î²-allyl sulfone-based chain transfer agents for tough methacrylate networks. Journal of Polymer Science Part A, 2016, 54, 1417-1427.	2.3	22
108	Tetrakis(2,4,6â€Trimethylbenzoyl)Silaneâ€"A Novel Photoinitiator for Visible Light Curing. Macromolecular Materials and Engineering, 2017, 302, 1600536.	3.6	22

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109	ROMP based photoinitiatorâ€coinitiator systems with improved migration stability. Journal of Polymer Science Part A, 2008, 46, 3648-3661.	2.3	21
110	Toward the Photoinduced Reactivity of 1,5-Diphenylpenta-1,4-diyn-3-one (DPD): Real-Time Investigations by Magnetic Resonance. Macromolecules, 2009, 42, 8034-8038.	4.8	21
111	3D Printable Biophotopolymers for in Vivo Bone Regeneration. Materials, 2015, 8, 3685-3700.	2.9	21
112	Hard Block Degradable Polycarbonate Urethanes: Promising Biomaterials for Electrospun Vascular Prostheses. Biomacromolecules, 2020, 21, 376-387.	5.4	21
113	Alternative initiators for bimolecular photoinitiating systems. Journal of Polymer Science Part A, 2010, 48, 5865-5871.	2.3	20
114	Frontal Polymerization: Polymerization Induced Destabilization of Peracrylates. Macromolecular Rapid Communications, 2011, 32, 1096-1100.	3.9	20
115	Tough photopolymers based on vinyl esters for biomedical applications. Journal of Polymer Science Part A, 2016, 54, 1987-1997.	2.3	20
116	Biocompatibility Assessment of a New Biodegradable Vascular Graft via In Vitro Co-culture Approaches and In Vivo Model. Annals of Biomedical Engineering, 2016, 44, 3319-3334.	2.5	20
117	Hyaluronic acid vinyl esters: A toolbox toward controlling mechanical properties of hydrogels for 3D microfabrication. Journal of Polymer Science, 2020, 58, 1288-1298.	3.8	20
118	Photoinitiating Monomers Based on Diacrylamides. Macromolecules, 2008, 41, 7953-7958.	4.8	19
119	Tissue engineering of vascular grafts. European Surgery - Acta Chirurgica Austriaca, 2013, 45, 187-193.	0.7	19
120	Synthesis and polymerization of vinylcyclopropanes bearing urethane groups for the development of low-shrinkage composites. European Polymer Journal, 2018, 98, 439-447.	5.4	19
121	Photoinitiators with functional groups. VI. Chemically bound sensitizers. Journal of Polymer Science Part A, 2004, 42, 2285-2301.	2.3	18
122	New photocleavable structures III: Photochemistry and photophysics of pyridinoyl and benzoyl-based photoinitiators. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 180, 109-117.	3.9	18
123	Photochemistry and initiation behavior of phenylethynyl onium salts as cationic photoinitiators. Journal of Polymer Science Part A, 2009, 47, 3419-3430.	2.3	18
124	Photoinitiators with Î²-Phenylogous Cleavage: An Evaluation of Reaction Mechanisms and Performance. Macromolecules, 2012, 45, 1737-1745.	4.8	18
125	3D alkyneâ€“azide cycloaddition: spatiotemporally controlled by combination of aryl azide photochemistry and two-photon grafting. Chemical Communications, 2013, 49, 7635.	4.1	18
126	UV-Initiated Bubble-Free Frontal Polymerization in Aqueous Conditions. Macromolecules, 2015, 48, 8738-8745.	4.8	18

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127	Debonding on Demand with Highly Cross-Linked Photopolymers: A Combination of Network Regulation and Thermally Induced Gas Formation. Macromolecules, 2018, 51, 660-669.	4.8	17
128	Photopolymerization of Cyclopolymerizable Monomers and Their Application in Hot Lithography. Macromolecules, 2018, 51, 9344-9353.	4.8	17
129	Novel Photocleavable Structures I: Synthesis of Hydroxyalkylphenone Analogues Electron-rich Heterocycles. Heterocycles, 2001, 55, 1475.	0.7	16
130	Initiators Based on Benzaldoximes: Bimolecular and Covalently Bound Systems. Macromolecules, 2012, 45, 8648-8657.	4.8	16
131	Tetraacylgermane: hochwirksame Photoinitiatoren fÃ¼r die radikalische Polymerisation mit sichtbarem Licht. Angewandte Chemie, 2017, 129, 3150-3154.	2.0	16
132	Towards efficient initiators for two-photon induced polymerization: fine tuning of the donor/acceptor properties. Molecular Systems Design and Engineering, 2019, 4, 437-448.	3.4	16
133	Biocompatible photoinitiators based on polyâ€Î±â€ketoesters. Journal of Polymer Science, 2020, 58, 242-253.	3.8	16
134	Radical-induced cationic frontal polymerisation for prepreg technology. Monatshefte FÃ¼r Chemie, 2021, 152, 151-165.	1.8	16
135	Thiolâ€“Ene Cross-linking of Poly(ethylene glycol) within High Internal Phase Emulsions: Degradable Hydrophilic PolyHIPEs for Controlled Drug Release. Macromolecules, 2021, 54, 10370-10380.	4.8	16
136	Mechanistic Investigations on a Diynone Type Photoinitiator. Macromolecular Chemistry and Physics, 2007, 208, 44-54.	2.2	15
137	A Modular Approach to Sensitized Twoâ€Photon Patterning of Photodegradable Hydrogels. Angewandte Chemie, 2018, 130, 15342-15347.	2.0	15
138	Silicaâ€Based, Organically Modified Host Material for Waveguide Structuring by Twoâ€Photonâ€Induced Photopolymerization. Advanced Functional Materials, 2010, 20, 811-819.	14.9	14
139	Evaluation of Difunctional Vinylcyclopropanes as Reactive Diluents for the Development of Lowâ€Shrinkage Composites. Macromolecular Materials and Engineering, 2017, 302, 1700021.	3.6	14
140	Measurement of degenerate two-photon absorption spectra of a series of developed two-photon initiators using a dispersive white light continuum Z-scan. Applied Physics Letters, 2017, 111, .	3.3	14
141	Beyond the Threshold: A Study of Chalcogenophene-Based Two-Photon Initiators. Chemistry of Materials, 2022, 34, 3042-3052.	6.7	14
142	3D photografting with aromatic azides: A comparison between three-photon and two-photon case. Optical Materials, 2013, 35, 1846-1851.	3.6	13
143	Variation of the crosslinking density in cluster-reinforced polymers. Materials Today Communications, 2015, 5, 10-17.	1.9	13
144	Imidazole-based ionic liquids for free radical photopolymerization. Designed Monomers and Polymers, 2015, 18, 262-270.	1.6	13

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145	A structural reconsideration: Linear aliphatic or alicyclic hard segments for biodegradable thermoplastic polyurethanes?. Journal of Polymer Science Part A, 2018, 56, 2214-2224.	2.3	13
146	Water Soluble, Photocurable Resins for Rapid Prototyping Applications. Macromolecular Symposia, 2004, 217, 99-108.	0.7	12
147	Toughening of Photopolymers for Stereolithography (SL). Materials Science Forum, 0, 825-826, 53-59.	0.3	12
148	Macroporous alumina with cellular interconnected morphology from emulsion templated polymer composite precursors. Journal of the European Ceramic Society, 2016, 36, 1045-1051.	5.7	12
149	Durch sichtbares Licht und Nahinfrarotstrahlung abbaubare supramolekulare Metalloâ€Gele. Angewandte Chemie, 2017, 129, 16071-16075.	2.0	12
150	Difunctional vinyl sulfonate esters for the fabrication of tough methacrylate-based photopolymer networks. Polymer, 2018, 158, 149-157.	3.8	12
151	Fully automated z-scan setup based on a tunable fs-oscillator. Optical Materials Express, 2019, 9, 3567.	3.0	12
152	Photoinitiators with double and triple bonds. Journal of Polymer Science Part A, 2008, 46, 289-301.	2.3	11
153	Evidence of concentration dependence of the two-photon absorption cross section: Determining the â€œtrueâ€• cross section value. Optical Materials, 2015, 47, 524-529.	3.6	11
154	Ester-Activated Vinyl Ethers as Chain Transfer Agents in Radical Photopolymerization of Methacrylates. Macromolecules, 2019, 52, 2691-2700.	4.8	11
155	Revival of Cyclopolymerizable Monomers as Low-Shrinkage Cross-Linkers. Macromolecules, 2020, 53, 8374-8381.	4.8	11
156	Photoinitiators with Functional Groups 9: New Derivatives of Covalently Linked Benzophenone-amine Based Photoinitiators. Journal of Macromolecular Science - Pure and Applied Chemistry, 2008, 45, 804-810.	2.2	10
157	Photopolymerizable Elastomers for Vascular Tissue Regeneration. Macromolecular Symposia, 2010, 296, 121-126.	0.7	10
158	3D grafting via three-photon induced photolysis of aromatic azides. Applied Physics A: Materials Science and Processing, 2012, 108, 29-34.	2.3	10
159	Bioinspired Precision Engineering of Threeâ€Dimensional Epithelial Stem Cell Microniches. Advanced Biology, 2020, 4, e2000016.	3.0	10
160	Photopolymerizable precursors for degradable biomaterials based on acetal moieties. European Polymer Journal, 2021, 154, 110536.	5.4	10
161	Hot-lithography 3D printing of biobased epoxy resins. Polymer, 2022, 254, 125097.	3.8	10
162	Photoinitiated polymerization of Î²-cyclodextrin/methyl methacrylate host/guest complex in the presence of water soluble photoinitiator, thioxanthone-catechol-O,Oâ€²-diacetic acid. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2010, 68, 147-153.	1.6	9

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163	Mass spectrometric imaging of in vivo protein and lipid adsorption on biodegradable vascular replacement systems. Analyst, The, 2015, 140, 6089-6099.	3.5	9
164	Vinyl carbonate photopolymers with improved mechanical properties for biomedical applications. Designed Monomers and Polymers, 2016, 19, 437-444.	1.6	9
165	Hydrogel with Orthogonal Reactive Units: 2D and 3D Crossâ€Linking Modulation. Macromolecular Rapid Communications, 2017, 38, 1600570.	3.9	9
166	Pore Morphology Tailoring in Polymerâ€Derived Ceramics Generated through Photopolymerizationâ€Assisted Solidification Templating. Advanced Engineering Materials, 2019, 21, 1900052.	3.5	9
167	Toughness enhancers for bone scaffold materials based on biocompatible photopolymers. Journal of Polymer Science Part A, 2019, 57, 110-119.	2.3	9
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