

# Robert Liska

## List of Publications by Year in descending order

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208  
papers

11,160  
citations

30070

54  
h-index

34986

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. <i>Chemical Reviews</i> , 2017, 117, 10212-10290.	47.7	2,383
2	Strategies to Reduce Oxygen Inhibition in Photoinduced Polymerization. <i>Chemical Reviews</i> , 2014, 114, 557-589.	47.7	520
3	Toughening of photo-curable polymer networks: a review. <i>Polymer Chemistry</i> , 2016, 7, 257-286.	3.9	308
4	Benzoyl germanium derivatives as novel visible light photoinitiators for dental materials. <i>Dental Materials</i> , 2008, 24, 901-907.	3.5	260
5	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
6	Hydrogels for Two-Photon Polymerization: A Toolbox for Mimicking the Extracellular Matrix. <i>Advanced Functional Materials</i> , 2013, 23, 4542-4554.	14.9	191
7	New Photocleavable Structures. Diacylgermane-Based Photoinitiators for Visible Light Curing. <i>Macromolecules</i> , 2008, 41, 2394-2400.	4.8	164
8	Lithography-Based Additive Manufacturing of Cellular Ceramic Structures. <i>Advanced Engineering Materials</i> , 2012, 14, 1052-1058.	3.5	161
9	Laser Photofabrication of Cell-Containing Hydrogel Constructs. <i>Langmuir</i> , 2014, 30, 3787-3794.	3.5	159
10	A Straightforward Synthesis and Structure-Activity Relationship of Highly Efficient Initiators for Two-Photon Polymerization. <i>Macromolecules</i> , 2013, 46, 352-361.	4.8	158
11	Direct Visualization of Excited-State Symmetry Breaking Using Ultrafast Time-Resolved Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 4643-4649.	13.7	157
12	Processing of 45S5 Bioglass® by lithography-based additive manufacturing. <i>Materials Letters</i> , 2012, 74, 81-84.	2.6	150
13	Engineering 3D cell-culture matrices: multiphoton processing technologies for biological and tissue engineering applications. <i>Expert Review of Medical Devices</i> , 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. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6941-6954.	2.3	133
15	Photo-sensitive hydrogels for three-dimensional laser microfabrication in the presence of whole organisms. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	2.6	117
16	Initiation efficiency and cytotoxicity of novel water-soluble two-photon photoinitiators for direct 3D microfabrication of hydrogels. <i>RSC Advances</i> , 2013, 3, 15939.	3.6	117
17	Biodegradable, thermoplastic polyurethane grafts for small diameter vascular replacements. <i>Acta Biomaterialia</i> , 2015, 11, 104-113.	8.3	107
18	Highly efficient water-soluble visible light photoinitiators. <i>Journal of Polymer Science Part A</i> , 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. <i>Biomacromolecules</i> , 2017, 18, 3260-3272.	5.4	104
20	Tetraacylgermanes: Highly Efficient Photoinitiators for Visible-Light-Induced Free-Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3103-3107.	13.8	97
21	Visible Light Photoinitiator for 3D-Printing of Tough Methacrylate Resins. <i>Materials</i> , 2017, 10, 1445.	2.9	96
22	Acylgermanes: Photoinitiators and Sources for Ge-Centered Radicals. Insights into their Reactivity. <i>Journal of the American Chemical Society</i> , 2013, 135, 17314-17321.	13.7	95
23	Multilength Scale Patterning of Functional Layers by Roll-to-Roll Ultraviolet-Light-Assisted Nanoimprint Lithography. <i>ACS Nano</i> , 2016, 10, 4926-4941.	14.6	94
24	Structure-Activity Relationship in D- $\alpha$ -A-D-Based Photoinitiators for the Two-Photon-Induced Photopolymerization Process. <i>Macromolecules</i> , 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. <i>Analytical Chemistry</i> , 2017, 89, 4958-4968.	6.5	90
26	New Photocleavable Structures, 4. <i>Macromolecular Rapid Communications</i> , 2008, 29, 57-62.	3.9	88
27	Photoinitiators with functional groups. V. New water-soluble photoinitiators containing carbohydrate residues and copolymerizable derivatives thereof. <i>Journal of Polymer Science Part A</i> , 2002, 40, 1504-1518.	2.3	80
28	Synthesis and structure-activity relationship of several aromatic ketone-based two-photon initiators. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3688-3699.	2.3	80
29	Functional polymers by two-photon 3D lithography. <i>Applied Surface Science</i> , 2007, 254, 836-840.	6.1	78
30	Efficient stabilization of thiol-ene formulations in radical photopolymerization. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4261-4266.	2.3	77
31	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
32	Additive manufacturing of photosensitive hydrogels for tissue engineering applications. <i>BioNanoMaterials</i> , 2014, 15, .	1.4	76
33	Three-dimensional microfabrication of protein hydrogels via two-photon-excited thiol-vinyl ester photopolymerization. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4799-4810.	2.3	74
34	Rapid formation of regulated methacrylate networks yielding tough materials for lithography-based 3D printing. <i>Polymer Chemistry</i> , 2016, 7, 2009-2014.	3.9	74
35	3D high-resolution two-photon crosslinked hydrogel structures for biological studies. <i>Acta Biomaterialia</i> , 2017, 55, 373-384.	8.3	72
36	Hot Lithography vs. room temperature DLP 3D-printing of a dimethacrylate. <i>Additive Manufacturing</i> , 2018, 21, 209-214.	3.0	72

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37	The formulator's guide to anti-oxygen inhibition additives. <i>Progress in Organic Coatings</i> , 2014, 77, 1789-1798.	3.9	70
38	Successful radical induced cationic frontal polymerization of epoxy-based monomers by C <sup>60</sup> labile compounds. <i>Polymer Chemistry</i> , 2015, 6, 8161-8167.	3.9	70
39	Fabrication of biomimetic placental barrier structures within a microfluidic device utilizing two-photon polymerization. <i>International Journal of Bioprinting</i> , 2018, 4, 144.	3.4	69
40	Hierarchically Porous Materials from Layer-by-Layer Photopolymerization of High Internal Phase Emulsions. <i>Macromolecular Rapid Communications</i> , 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. <i>Polymer Chemistry</i> , 2014, 5, 6523-6533.	3.9	68
42	A Modular Approach to Sensitized Two-Photon Patterning of Photodegradable Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15122-15127.	13.8	68
43	Photoinitiators with functional groups. IX. Hydrophilic bisacylphosphine oxides for acidic aqueous formulations. <i>Journal of Polymer Science Part A</i> , 2006, 44, 1686-1700.	2.3	67
44	Novel photoacid generators for cationic photopolymerization. <i>Polymer Chemistry</i> , 2017, 8, 4414-4421.	3.9	67
45	Laser 3D Printing with Sub-Microscale Resolution of Porous Elastomeric Scaffolds for Supporting Human Bone Stem Cells. <i>Advanced Healthcare Materials</i> , 2015, 4, 739-747.	7.6	65
46	Vinyl carbonates, vinyl carbamates, and related monomers: synthesis, polymerization, and application. <i>Chemical Society Reviews</i> , 2012, 41, 2395-2405.	38.1	62
47	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
48	Thiol-ene photopolymerization for efficient curing of vinyl esters. <i>Journal of Polymer Science Part A</i> , 2013, 51, 203-212.	2.3	61
49	Acylstannanes: Cleavable and Highly Reactive Photoinitiators for Radical Photopolymerization at Wavelengths above 500 nm with Excellent Photobleaching Behavior. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12146-12150.	13.8	61
50	$\hat{\text{I}}^2$ -Allyl Sulfones as Addition-Fragmentation Chain Transfer Reagents: A Tool for Adjusting Thermal and Mechanical Properties of Dimethacrylate Networks. <i>Macromolecules</i> , 2014, 47, 7327-7336.	4.8	60
51	Exploring the benefits of $\hat{\text{I}}^2$ -allyl sulfones for more homogeneous dimethacrylate photopolymer networks. <i>Polymer Chemistry</i> , 2015, 6, 2038-2047.	3.9	60
52	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.	0.8	59
53	Water-soluble photopolymers for rapid prototyping of cellular materials. <i>Journal of Applied Polymer Science</i> , 2005, 97, 2286-2298.	2.6	56
54	Phenylglycine derivatives as coinitiators for the radical photopolymerization of acidic aqueous formulations. <i>Journal of Polymer Science Part A</i> , 2006, 44, 115-125.	2.3	56

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

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73	Evaluation of Biocompatible Photopolymers II: Further Reactive Diluents. Monatshefte für 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. $\alpha$ -Cleavable photoinitiators based on pyridines. Journal of Polymer Science Part A, 2004, 42, 752-764.	2.3	35
81	Degradable Glycine-Based Photo-Polymerizable Polyphosphazenes for Use as Scaffolds for Tissue Regeneration. Macromolecular Bioscience, 2015, 15, 351-363.	4.1	35
82	Direct Observation of a Photochemical Alkyne-Allene Reaction and of a Twisted and Rehybridized Intramolecular Charge-Transfer State in a Donor-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 UV-Induced RICFP of Epoxy-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 Thiol-Ene 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	Hot-Lithography SLA-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 Thiol-ene Polymerization. <i>Macromolecular Rapid Communications</i> , 2012, 33, 2046-2052.	3.9	29
92	Functionalized Bead Assay to Measure Three-dimensional Traction Forces during T-cell Activation. <i>Nano Letters</i> , 2021, 21, 507-514.	9.1	28
93	Photoinitiating monomers based on di- and triacryloylated hydroxylamine derivatives. <i>Journal of Polymer Science Part A</i> , 2009, 47, 392-403.	2.3	27
94	Synthesis of bis(3-{[2-(allyloxy)ethoxy]methyl}-2,4,6-trimethylbenzoyl)(phenyl)phosphine oxide as a tailor-made photoinitiator for dental adhesives. <i>Beilstein Journal of Organic Chemistry</i> , 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. <i>Optical Materials Express</i> , 2014, 4, 486.	3.0	27
96	Radical induced cationic frontal polymerization in thin layers. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1155-1159.	2.3	27
97	Porous polysilazane-derived ceramic structures generated through photopolymerization-assisted solidification templating. <i>Journal of the European Ceramic Society</i> , 2019, 39, 838-845.	5.7	26
98	Enhanced reduction of polymerization-induced shrinkage stress via combination of radical ring opening and addition fragmentation chain transfer. <i>Polymer Chemistry</i> , 2019, 10, 1357-1366.	3.9	25
99	UV-Induced Cationic Ring-Opening Polymerization of 2-Oxazolines for Hot Lithography. <i>ACS Macro Letters</i> , 2020, 9, 546-551.	4.8	25
100	1,5-Diphenyl-1,4-diyne-3-one: A highly efficient photoinitiator. <i>Journal of Polymer Science Part A</i> , 2005, 43, 101-111.	2.3	24
101	3D-shaping of biodegradable photopolymers for hard tissue replacement. <i>Applied Surface Science</i> , 2007, 254, 1131-1134.	6.1	24
102	Allyl sulfides and $\alpha$ -substituted acrylates as addition-fragmentation chain transfer agents for methacrylate polymer networks. <i>Journal of Polymer Science Part A</i> , 2016, 54, 394-406.	2.3	24
103	$\alpha$ -Ketoesters as Nonaromatic Photoinitiators for Radical Polymerization of (Meth)acrylates. <i>Macromolecules</i> , 2019, 52, 2814-2821.	4.8	24
104	Photopolymerization of biocompatible phosphorus-containing vinyl esters and vinyl carbamates. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2916-2924.	2.3	23
105	Benzoyl Phenyltelluride as Highly Reactive Visible-Light TERP-Reagent for Controlled Radical Polymerization. <i>Macromolecules</i> , 2014, 47, 5526-5531.	4.8	23
106	Two-photon-induced thiol-ene polymerization as a fabrication tool for flexible optical waveguides. <i>Designed Monomers and Polymers</i> , 2014, 17, 390-400.	1.6	23
107	The influence of vinyl activating groups on $\alpha$ -allyl sulfone-based chain transfer agents for tough methacrylate networks. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1417-1427.	2.3	22
108	Tetrakis(2,4,6-trimethylbenzoyl)silane: A Novel Photoinitiator for Visible Light Curing. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600536.	3.6	22

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109	ROMP based photoinitiator-coinitiator systems with improved migration stability. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3648-3661.	2.3	21
110	Toward the Photoinduced Reactivity of 1,5-Diphenylpenta-1,4-diyne-3-one (DPD): Real-Time Investigations by Magnetic Resonance. <i>Macromolecules</i> , 2009, 42, 8034-8038.	4.8	21
111	3D Printable Biophotopolymers for in Vivo Bone Regeneration. <i>Materials</i> , 2015, 8, 3685-3700.	2.9	21
112	Hard Block Degradable Polycarbonate Urethanes: Promising Biomaterials for Electrospun Vascular Prostheses. <i>Biomacromolecules</i> , 2020, 21, 376-387.	5.4	21
113	Alternative initiators for bimolecular photoinitiating systems. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5865-5871.	2.3	20
114	Frontal Polymerization: Polymerization Induced Destabilization of Peracrylates. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1096-1100.	3.9	20
115	Tough photopolymers based on vinyl esters for biomedical applications. <i>Journal of Polymer Science Part A</i> , 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. <i>Annals of Biomedical Engineering</i> , 2016, 44, 3319-3334.	2.5	20
117	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
118	Photoinitiating Monomers Based on Diacrylamides. <i>Macromolecules</i> , 2008, 41, 7953-7958.	4.8	19
119	Tissue engineering of vascular grafts. <i>European Surgery - Acta Chirurgica Austriaca</i> , 2013, 45, 187-193.	0.7	19
120	Synthesis and polymerization of vinylcyclopropanes bearing urethane groups for the development of low-shrinkage composites. <i>European Polymer Journal</i> , 2018, 98, 439-447.	5.4	19
121	Photoinitiators with functional groups. VI. Chemically bound sensitizers. <i>Journal of Polymer Science Part A</i> , 2004, 42, 2285-2301.	2.3	18
122	New photocleavable structures III: Photochemistry and photophysics of pyridinoyl and benzoyl-based photoinitiators. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 180, 109-117.	3.9	18
123	Photochemistry and initiation behavior of phenylethynyl onium salts as cationic photoinitiators. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3419-3430.	2.3	18
124	Photoinitiators with $\hat{I}^2$ -Phenyllogous Cleavage: An Evaluation of Reaction Mechanisms and Performance. <i>Macromolecules</i> , 2012, 45, 1737-1745.	4.8	18
125	3D alkyne-azide cycloaddition: spatiotemporally controlled by combination of aryl azide photochemistry and two-photon grafting. <i>Chemical Communications</i> , 2013, 49, 7635.	4.1	18
126	UV-Initiated Bubble-Free Frontal Polymerization in Aqueous Conditions. <i>Macromolecules</i> , 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. <i>Macromolecules</i> , 2018, 51, 660-669.	4.8	17
128	Photopolymerization of Cyclopolymerizable Monomers and Their Application in Hot Lithography. <i>Macromolecules</i> , 2018, 51, 9344-9353.	4.8	17
129	Novel Photocleavable Structures I: Synthesis of Hydroxyalkylphenone Analogues Electron-rich Heterocycles. <i>Heterocycles</i> , 2001, 55, 1475.	0.7	16
130	Initiators Based on Benzaldoximes: Bimolecular and Covalently Bound Systems. <i>Macromolecules</i> , 2012, 45, 8648-8657.	4.8	16
131	Tetraacylgermane: hochwirksame Photoinitiatoren für die radikalische Polymerisation mit sichtbarem Licht. <i>Angewandte Chemie</i> , 2017, 129, 3150-3154.	2.0	16
132	Towards efficient initiators for two-photon induced polymerization: fine tuning of the donor/acceptor properties. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 437-448.	3.4	16
133	Biocompatible photoinitiators based on poly(α-ketoesters). <i>Journal of Polymer Science</i> , 2020, 58, 242-253.	3.8	16
134	Radical-induced cationic frontal polymerisation for prepreg technology. <i>Monatshefte für Chemie</i> , 2021, 152, 151-165.	1.8	16
135	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
136	Mechanistic Investigations on a Diynone Type Photoinitiator. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 44-54.	2.2	15
137	A Modular Approach to Sensitized Two-Photon Patterning of Photodegradable Hydrogels. <i>Angewandte Chemie</i> , 2018, 130, 15342-15347.	2.0	15
138	Silica-Based, Organically Modified Host Material for Waveguide Structuring by Two-Photon-Induced Photopolymerization. <i>Advanced Functional Materials</i> , 2010, 20, 811-819.	14.9	14
139	Evaluation of Difunctional Vinylcyclopropanes as Reactive Diluents for the Development of Low-Shrinkage Composites. <i>Macromolecular Materials and Engineering</i> , 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. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	14
141	Beyond the Threshold: A Study of Chalcogenophene-Based Two-Photon Initiators. <i>Chemistry of Materials</i> , 2022, 34, 3042-3052.	6.7	14
142	3D photografting with aromatic azides: A comparison between three-photon and two-photon case. <i>Optical Materials</i> , 2013, 35, 1846-1851.	3.6	13
143	Variation of the crosslinking density in cluster-reinforced polymers. <i>Materials Today Communications</i> , 2015, 5, 10-17.	1.9	13
144	Imidazole-based ionic liquids for free radical photopolymerization. <i>Designed Monomers and Polymers</i> , 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?. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2214-2224.	2.3	13
146	Water Soluble, Photocurable Resins for Rapid Prototyping Applications. <i>Macromolecular Symposia</i> , 2004, 217, 99-108.	0.7	12
147	Toughening of Photopolymers for Stereolithography (SL). <i>Materials Science Forum</i> , 0, 825-826, 53-59.	0.3	12
148	Macroporous alumina with cellular interconnected morphology from emulsion templated polymer composite precursors. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1045-1051.	5.7	12
149	Durch sichtbares Licht und Nahinfrarotstrahlung abbaubare supramolekulare Metalloâ€Gele. <i>Angewandte Chemie</i> , 2017, 129, 16071-16075.	2.0	12
150	Difunctional vinyl sulfonate esters for the fabrication of tough methacrylate-based photopolymer networks. <i>Polymer</i> , 2018, 158, 149-157.	3.8	12
151	Fully automated z-scan setup based on a tunable fs-oscillator. <i>Optical Materials Express</i> , 2019, 9, 3567.	3.0	12
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