

# Robert Liska

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Approaching new biomaterials: copolymerization characteristics of vinyl esters with norbornenes, allyl esters and allyl ethers. <i>Polymer International</i> , 2022, 71, 790-796.	3.1	1
2	Photo-chemically induced polycondensation of a pure phenolic resin for additive manufacturing. <i>Polymer Chemistry</i> , 2022, 13, 768-777.	3.9	9
3	Regulated acrylate networks as tough photocurable materials for additive manufacturing. <i>Polymer International</i> , 2022, 71, 897-905.	3.1	5
4	A disulfide-based linker for thiolâ€“norbornene conjugation: formation and cleavage of hydrogels by the use of light. <i>Polymer Chemistry</i> , 2022, 13, 1158-1168.	3.9	4
5	A systematic study of temperatureâ€“dependent cationic photopolymerization of cyclic esters. <i>Polymer International</i> , 2022, 71, 797-803.	3.1	6
6	Introduction to the themed collection on photopolymer science dedicated to Ewa Andrezejewska. <i>Polymer Chemistry</i> , 2022, 13, 1151-1151.	3.9	0
7	Beyond the Threshold: A Study of Chalcogenophene-Based Two-Photon Initiators. <i>Chemistry of Materials</i> , 2022, 34, 3042-3052.	6.7	14
8	Cationic photopolymerization of cyclic esters at elevated temperatures and their application in hot lithography. <i>Polymer International</i> , 2022, 71, 1062-1071.	3.1	5
9	Hot-lithography 3D printing of biobased epoxy resins. <i>Polymer</i> , 2022, 254, 125097.	3.8	10
10	Biomimetic adhesion motifs based on RAFT polymers with phosphonate groups. <i>European Polymer Journal</i> , 2021, 143, 110188.	5.4	3
11	Functionalized Bead Assay to Measure Three-dimensional Traction Forces during T-cell Activation. <i>Nano Letters</i> , 2021, 21, 507-514.	9.1	28
12	Heterotelechelic poly(propylene oxide) as migration-inhibited toughening agent in hot lithography based additive manufacturing. <i>Polymer Chemistry</i> , 2021, 12, 1260-1272.	3.9	4
13	Radical-induced cationic frontal polymerisation for prepreg technology. <i>Monatshefte für Chemie</i> , 2021, 152, 151-165.	1.8	16
14	Photopolymerization of difunctional cyclopolymerizable monomers with low shrinkage behavior. <i>Journal of Polymer Science</i> , 2021, 59, 519-531.	3.8	7
15	Low volatile monofunctional reactive diluents for radiation curable formulations. <i>Journal of Polymer Science</i> , 2021, 59, 2154-2169.	3.8	5
16	Bismuthoniumâ€“and pyryliumâ€“based radical induced cationic frontal polymerization of epoxides. <i>Journal of Polymer Science</i> , 2021, 59, 1841-1854.	3.8	6
17	Photopolymerizable precursors for degradable biomaterials based on acetal moieties. <i>European Polymer Journal</i> , 2021, 154, 110536.	5.4	10
18	Synthesis of allyl sulfones bearing urethane groups as efficient addition-fragmentation chain transfer agents for the development of low-shrinkage composites. <i>European Polymer Journal</i> , 2021, 158, 110672.	5.4	4

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19	Polymer Networks for Enrichment of Calcium Ions. <i>Polymers</i> , 2021, 13, 3506.	4.5	1
20	Thiolâ€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
21	Hard Block Degradable Polycarbonate Urethanes: Promising Biomaterials for Electrospun Vascular Prostheses. <i>Biomacromolecules</i> , 2020, 21, 376-387.	5.4	21
22	Revival of Cyclopolymerizable Monomers as Low-Shrinkage Cross-Linkers. <i>Macromolecules</i> , 2020, 53, 8374-8381.	4.8	11
23	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
24	Single-Molecule Force Spectroscopy Reveals Adhesion-by-Demand in Statherin at the Proteinâ€Hydroxyapatite Interface. <i>Langmuir</i> , 2020, 36, 13292-13300.	3.5	4
25	Novel synthesis routes for the preparation of low toxic vinyl ester and vinyl carbonate monomers. <i>Synthetic Communications</i> , 2020, 50, 3629-3641.	2.1	3
26	Hotâ€Lithography SLAâ€3D Printing of Epoxy Resin. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000325.	3.6	32
27	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
28	UV-Induced Cationic Ring-Opening Polymerization of 2-Oxazolines for Hot Lithography. <i>ACS Macro Letters</i> , 2020, 9, 546-551.	4.8	25
29	Radical induced cationic frontal polymerization for preparation of epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 132, 105855.	7.6	36
30	Biocompatible photoinitiators based on polyâ€ketoesters. <i>Journal of Polymer Science</i> , 2020, 58, 242-253.	3.8	16
31	Bioinspired Precision Engineering of Threeâ€Dimensional Epithelial Stem Cell Microniches. <i>Advanced Biology</i> , 2020, 4, e2000016.	3.0	10
32	Solvent tuning of photochemistry upon excited-state symmetry breaking. <i>Nature Communications</i> , 2020, 11, 1925.	12.8	54
33	Cleavable Unimolecular Photoinitiators Based on Oximeâ€Ester Chemistry for Twoâ€Photon Threeâ€Dimensional Printing. <i>ChemPhotoChem</i> , 2019, 3, 1090-1094.	3.0	40
34	Enhanced reduction of polymerization-induced shrinkage stress <i>via</i> combination of radical ring opening and addition fragmentation chain transfer. <i>Polymer Chemistry</i> , 2019, 10, 1357-1366.	3.9	25
35	Pore Morphology Tailoring in Polymerâ€Derived Ceramics Generated through Photopolymerizationâ€Assisted Solidification Templating. <i>Advanced Engineering Materials</i> , 2019, 21, 1900052.	3.5	9
36	â€Ketoesters as Nonaromatic Photoinitiators for Radical Polymerization of (Meth)acrylates. <i>Macromolecules</i> , 2019, 52, 2814-2821.	4.8	24

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37	Ester-Activated Vinyl Ethers as Chain Transfer Agents in Radical Photopolymerization of Methacrylates. <i>Macromolecules</i> , 2019, 52, 2691-2700.	4.8	11
38	Radical induced cationic frontal polymerization in thin layers. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1155-1159.	2.3	27
39	Visible light induced free radical promoted cationic polymerization using acylsilanes. <i>Progress in Organic Coatings</i> , 2019, 132, 139-143.	3.9	37
40	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
41	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
42	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
43	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
44	Fully automated z-scan setup based on a tunable fs-oscillator. <i>Optical Materials Express</i> , 2019, 9, 3567.	3.0	12
45	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
46	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
47	Vinylsulfonateester: Effiziente Kettenübertragungsreagenzien für verzögerungsfreien 3D-Druck schlagzäher Photopolymere. <i>Angewandte Chemie</i> , 2018, 130, 9305-9310.	2.0	4
48	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
49	Hot Lithography vs. room temperature DLP 3D-printing of a dimethacrylate. <i>Additive Manufacturing</i> , 2018, 21, 209-214.	3.0	72
50	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
51	Photopolymerization of Cyclopolymerizable Monomers and Their Application in Hot Lithography. <i>Macromolecules</i> , 2018, 51, 9344-9353.	4.8	17
52	Wavelength-optimized Two-Photon Polymerization Using Initiators Based on Multipolar Aminostyryl-1,3,5-triazines. <i>Scientific Reports</i> , 2018, 8, 17273.	3.3	32
53	Difunctional vinyl sulfonate esters for the fabrication of tough methacrylate-based photopolymer networks. <i>Polymer</i> , 2018, 158, 149-157.	3.8	12
54	A Modular Approach to Sensitized Two-Photon Patterning of Photodegradable Hydrogels. <i>Angewandte Chemie</i> , 2018, 130, 15342-15347.	2.0	15

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55	A Modular Approach to Sensitized Two-Photon Patterning of Photodegradable Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15122-15127.	13.8	68
56	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
57	Dispersive white light continuum single Z-scan for rapid determination of degenerate two-photon absorption spectra. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 142.	2.2	5
58	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
59	A biocompatible diazosulfonate initiator for direct encapsulation of human stem cells via two-photon polymerization. <i>Polymer Chemistry</i> , 2018, 9, 3108-3117.	3.9	55
60	Acylstannane: Spaltbare und hochreaktive Photoinitiatoren für radikalische Photopolymerisationen bei Wellenlängen über 500 nm mit exzellentem Photobleaching. <i>Angewandte Chemie</i> , 2018, 130, 12323-12327.	2.0	3
61	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
62	Tetraacylgermanes: Highly Efficient Photoinitiators for Visible Light-Induced Free Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3103-3107.	13.8	97
63	Tetraacylgermane: hochwirksame Photoinitiatoren für die radikalische Polymerisation mit sichtbarem Licht. <i>Angewandte Chemie</i> , 2017, 129, 3150-3154.	2.0	16
64	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
65	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
66	3D high-resolution two-photon crosslinked hydrogel structures for biological studies. <i>Acta Biomaterialia</i> , 2017, 55, 373-384.	8.3	72
67	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
68	A biocompatible macromolecular two-photon initiator based on hyaluronan. <i>Polymer Chemistry</i> , 2017, 8, 451-460.	3.9	49
69	Direct Observation of a Photochemical Alkyne-Allene Reaction and of a Twisted and Rehybridized Intramolecular Charge-Transfer State in a Donor-Acceptor Dyad. <i>Journal of the American Chemical Society</i> , 2017, 139, 16885-16893.	13.7	35
70	Durch sichtbares Licht und Nahinfrarotstrahlung abbaubare supramolekulare Metallo-Gele. <i>Angewandte Chemie</i> , 2017, 129, 16071-16075.	2.0	12
71	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
72	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

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73	Metalloâ€Supramolecular Gels that are Photocleavable with Visible and Nearâ€Infrared Irradiation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15857-15860.	13.8	62
74	Novel photoacid generators for cationic photopolymerization. <i>Polymer Chemistry</i> , 2017, 8, 4414-4421.	3.9	67
75	Polymers for 3D Printing and Customized Additive Manufacturing. <i>Chemical Reviews</i> , 2017, 117, 10212-10290.	47.7	2,383
76	Successful UVâ€Induced RICFP of Epoxyâ€Composites. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700313.	2.2	34
77	Hydrogel with Orthogonal Reactive Units: 2D and 3D Crossâ€Linking Modulation. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600570.	3.9	9
78	Visible Light Photoinitiator for 3D-Printing of Tough Methacrylate Resins. <i>Materials</i> , 2017, 10, 1445.	2.9	96
79	Tough photopolymers based on vinyl esters for biomedical applications. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1987-1997.	2.3	20
80	Highly efficient water-soluble visible light photoinitiators. <i>Journal of Polymer Science Part A</i> , 2016, 54, 473-479.	2.3	107
81	Allyl sulfides and $\beta$ -substituted acrylates as additionâ€fragmentation chain transfer agents for methacrylate polymer networks. <i>Journal of Polymer Science Part A</i> , 2016, 54, 394-406.	2.3	24
82	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
83	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
84	Vinyl carbonate photopolymers with improved mechanical properties for biomedical applications. <i>Designed Monomers and Polymers</i> , 2016, 19, 437-444.	1.6	9
85	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
86	Exploring Network Formation of Tough and Biocompatible Thiolâ€yne Based Photopolymers. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1701-1706.	3.9	33
87	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
88	New Radiopaque Bromineâ€Containing Monomers for Dental Restorative Materials. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 733-742.	3.6	1
89	The influence of vinyl activating groups on $\beta$ -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
90	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

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91	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
92	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
93	Toughening of photo-curable polymer networks: a review. <i>Polymer Chemistry</i> , 2016, 7, 257-286.	3.9	308
94	Variation of the crosslinking density in cluster-reinforced polymers. <i>Materials Today Communications</i> , 2015, 5, 10-17.	1.9	13
95	Development of Synthetic Platelet-Activating Hydrogel Matrices to Induce Local Hemostasis. <i>Advanced Functional Materials</i> , 2015, 25, 6606-6617.	14.9	43
96	3D Printable Biophotopolymers for in Vivo Bone Regeneration. <i>Materials</i> , 2015, 8, 3685-3700.	2.9	21
97	Imidazole-based ionic liquids for free radical photopolymerization. <i>Designed Monomers and Polymers</i> , 2015, 18, 262-270.	1.6	13
98	UV-Initiated Bubble-Free Frontal Polymerization in Aqueous Conditions. <i>Macromolecules</i> , 2015, 48, 8738-8745.	4.8	18
99	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
100	Microcellular Open Porous Monoliths for Cell Growth by Thiol-Ene Polymerization of Low-Toxicity Monomers in High Internal Phase Emulsions. <i>Macromolecular Bioscience</i> , 2015, 15, 253-261.	4.1	33
101	Exploring the benefits of $\beta$ -allyl sulfones for more homogeneous dimethacrylate photopolymer networks. <i>Polymer Chemistry</i> , 2015, 6, 2038-2047.	3.9	60
102	Degradable Glycine-Based Photo-Polymerizable Polyphosphazenes for Use as Scaffolds for Tissue Regeneration. <i>Macromolecular Bioscience</i> , 2015, 15, 351-363.	4.1	35
103	Evidence of concentration dependence of the two-photon absorption cross section: Determining the $\sigma$ -cross section value. <i>Optical Materials</i> , 2015, 47, 524-529.	3.6	11
104	Mass spectrometric imaging of in vivo protein and lipid adsorption on biodegradable vascular replacement systems. <i>Analyst</i> , 2015, 140, 6089-6099.	3.5	9
105	Successful radical induced cationic frontal polymerization of epoxy-based monomers by $^{13}\text{C}$ labile compounds. <i>Polymer Chemistry</i> , 2015, 6, 8161-8167.	3.9	70
106	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
107	Biodegradable, thermoplastic polyurethane grafts for small diameter vascular replacements. <i>Acta Biomaterialia</i> , 2015, 11, 104-113.	8.3	107
108	Additive manufacturing of photosensitive hydrogels for tissue engineering applications. <i>BioNanoMaterials</i> , 2014, 15, .	1.4	76

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109	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
110	Novel cross-linkers for asymmetric poly-AMPS-based proton exchange membranes for fuel cells. <i>Designed Monomers and Polymers</i> , 2014, 17, 372-379.	1.6	8
111	Laser Photofabrication of Cell-Containing Hydrogel Constructs. <i>Langmuir</i> , 2014, 30, 3787-3794.	3.5	159
112	Strategies to Reduce Oxygen Inhibition in Photoinduced Polymerization. <i>Chemical Reviews</i> , 2014, 114, 557-589.	47.7	520
113	$\hat{\text{I}}^2$ -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
114	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
115	The formulator's guide to anti-oxygen inhibition additives. <i>Progress in Organic Coatings</i> , 2014, 77, 1789-1798.	3.9	70
116	Cytotoxicity of post and core composites as a function of environmental conditions. <i>Dental Materials</i> , 2014, 30, 1179-1186.	3.5	8
117	Benzoyl Phenyltelluride as Highly Reactive Visible-Light TERP-Reagent for Controlled Radical Polymerization. <i>Macromolecules</i> , 2014, 47, 5526-5531.	4.8	23
118	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
119	Tissue engineering of vascular grafts. <i>European Surgery - Acta Chirurgica Austriaca</i> , 2013, 45, 187-193.	0.7	19
120	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
121	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
122	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
123	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
124	Efficient stabilization of thiol-ene formulations in radical photopolymerization. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4261-4266.	2.3	77
125	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
126	Hydrogels for Two-Photon Polymerization: A Toolbox for Mimicking the Extracellular Matrix. <i>Advanced Functional Materials</i> , 2013, 23, 4542-4554.	14.9	191



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127	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
128	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
129	Thiol-ene photopolymerization for efficient curing of vinyl esters. <i>Journal of Polymer Science Part A</i> , 2013, 51, 203-212.	2.3	61
130	Young's modulus measurement of two-photon polymerized micro-cantilevers by using nanoindentation equipment. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	42
131	Flexible Optical Interconnects via Thiol-ene Two-photon-induced Polymerization. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1438, 1.	0.1	1
132	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
133	Vinyl carbonates, vinyl carbamates, and related monomers: synthesis, polymerization, and application. <i>Chemical Society Reviews</i> , 2012, 41, 2395-2405.	38.1	62
134	Photoinitiators with $\hat{I}^2$ -Phenylogous Cleavage: An Evaluation of Reaction Mechanisms and Performance. <i>Macromolecules</i> , 2012, 45, 1737-1745.	4.8	18
135	3D Photografting: Selective Functionalization of 3D Matrices Via Multiphoton Grafting and Subsequent Click Chemistry ( <i>Adv. Funct. Mater.</i> 16/2012). <i>Advanced Functional Materials</i> , 2012, 22, 3527-3527.	14.9	5
136	Efficient Curing of Vinyl Carbonates by Thiol-ene Polymerization. <i>Macromolecular Rapid Communications</i> , 2012, 33, 2046-2052.	3.9	29
137	Initiators Based on Benzaldoximes: Bimolecular and Covalently Bound Systems. <i>Macromolecules</i> , 2012, 45, 8648-8657.	4.8	16
138	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
139	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
140	Lithography-Based Additive Manufacturing of Cellular Ceramic Structures. <i>Advanced Engineering Materials</i> , 2012, 14, 1052-1058.	3.5	161
141	Selective Functionalization of 3D Matrices Via Multiphoton Grafting and Subsequent Click Chemistry. <i>Advanced Functional Materials</i> , 2012, 22, 3429-3433.	14.9	34
142	3D grafting via three-photon induced photolysis of aromatic azides. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 29-34.	2.3	10
143	Processing of 45S5 Bioglass <sup>®</sup> by lithography-based additive manufacturing. <i>Materials Letters</i> , 2012, 74, 81-84.	2.6	150
144	Elastomeric degradable biomaterials by photopolymerization-based CAD-CAM for vascular tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 055003.	3.3	51

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145	Polymerizable Hydrogels for Rapid Prototyping: Chemistry, Photolithography, and Mechanical Properties. , 2011, , 161-182.		3
146	Evaluation of 3D structures fabricated with two-photon-photopolymerization by using FTIR spectroscopy. Journal of Applied Physics, 2011, 110, .	2.5	47
147	Vinylcarbonates and vinylcarbamates: Biocompatible monomers for radical photopolymerization. Journal of Polymer Science Part A, 2011, 49, 650-661.	2.3	44
148	Synthesis and structure-activity relationship of several aromatic ketone-based two-photon initiators. Journal of Polymer Science Part A, 2011, 49, 3688-3699.	2.3	80
149	Biomaterials based on low cytotoxic vinyl esters for bone replacement application. Journal of Polymer Science Part A, 2011, 49, 4927-4934.	2.3	33
150	Frontal Polymerization: Polymerization Induced Destabilization of Peracrylates. Macromolecular Rapid Communications, 2011, 32, 1096-1100.	3.9	20
151	Two-photon-induced Microfabrication of Flexible Optical Waveguides. Journal of Laser Micro Nanoengineering, 2011, 6, 195-198.	0.1	6
152	Synthesis of bis(3-{[2-(allyloxy)ethoxy]methyl}-2,4,6-trimethylbenzoyl)(phenyl)phosphine oxide " a tailor-made photoinitiator for dental adhesives. Beilstein Journal of Organic Chemistry, 2010, 6, 26.	2.2	27
153	Photoinitiated polymerization of $\beta$ -cyclodextrin/methyl methacrylate host/guest complex in the presence of water soluble photoinitiator, thioxanthone-catechol-O, $\alpha$ -diacetic acid. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2010, 68, 147-153.	1.6	9
154	Silica-Based, Organically Modified Host Material for Waveguide Structuring by Two-Photon-Induced Photopolymerization. Advanced Functional Materials, 2010, 20, 811-819.	14.9	14
155	Photopolymerization of biocompatible phosphorus-containing vinyl esters and vinyl carbamates. Journal of Polymer Science Part A, 2010, 48, 2916-2924.	2.3	23
156	Alternative initiators for bimolecular photoinitiating systems. Journal of Polymer Science Part A, 2010, 48, 5865-5871.	2.3	20
157	Photopolymerizable Elastomers for Vascular Tissue Regeneration. Macromolecular Symposia, 2010, 296, 121-126.	0.7	10
158	3D-printing of Urethane-based Photoelastomers for Vascular Tissue Regeneration. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	1
159	(Bio)degradable Urethane-Elastomers for Electrospun Vascular Grafts. Materials Research Society Symposia Proceedings, 2009, 1235, 1.	0.1	1
160	3D-structuring of Optical Waveguides with Two Photon Polymerization. Materials Research Society Symposia Proceedings, 2009, 1179, 1.	0.1	5
161	Additive Manufacturing Technologies for the 3D Fabrication of Biocompatible and Biodegradable Photopolymers. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	1
162	Novel Highly Potential Initiators for the Two-Photon-Induced Photopolymerization Process. Materials Research Society Symposia Proceedings, 2009, 1179, 27.	0.1	0

#	ARTICLE	IF	CITATIONS
163	New 3D-Biophotopolymers with Selective Surface-cell Interactions for Regenerative Medicine. Materials Research Society Symposia Proceedings, 2009, 1235, 1.	0.1	1
164	Biocompatible Phosphorus-based Monomers for Radical Polymerization. Materials Research Society Symposia Proceedings, 2009, 1235, 1.	0.1	0
165	Decisive Reaction Steps at Initial Stages of Photoinitiated Radical Polymerizations. Angewandte Chemie - International Edition, 2009, 48, 9359-9361.	13.8	31
166	Photoinitiating monomers based on di- and triacryloylated hydroxylamine derivatives. Journal of Polymer Science Part A, 2009, 47, 392-403.	2.3	27
167	(Meth)acrylate-based photoelastomers as tailored biomaterials for artificial vascular grafts. Journal of Polymer Science Part A, 2009, 47, 2664-2676.	2.3	42
168	Photochemistry and initiation behavior of phenylethynyl onium salts as cationic photoinitiators. Journal of Polymer Science Part A, 2009, 47, 3419-3430.	2.3	18
169	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
170	Gelatin-based photopolymers for bone replacement materials. Journal of Polymer Science Part A, 2009, 47, 7078-7089.	2.3	44
171	Toward the Photoinduced Reactivity of 1,5-Diphenylpenta-1,4-diyne-3-one (DPD): Real-Time Investigations by Magnetic Resonance. Macromolecules, 2009, 42, 8034-8038.	4.8	21
172	Structure-Activity Relationship in D-IC-A-IC-D-Based Photoinitiators for the Two-Photon-Induced Photopolymerization Process. Macromolecules, 2009, 42, 6519-6528.	4.8	92
173	Photoinitiators with double and triple bonds. Journal of Polymer Science Part A, 2008, 46, 289-301.	2.3	11
174	ROMP based photoinitiator-coinitiator systems with improved migration stability. Journal of Polymer Science Part A, 2008, 46, 3648-3661.	2.3	21
175	Oxygen scavengers and sensitizers for reduced oxygen inhibition in radical photopolymerization. Journal of Polymer Science Part A, 2008, 46, 6916-6927.	2.3	38
176	New Photocleavable Structures, 4. Macromolecular Rapid Communications, 2008, 29, 57-62.	3.9	88
177	Benzoyl germanium derivatives as novel visible light photoinitiators for dental materials. Dental Materials, 2008, 24, 901-907.	3.5	260
178	Photopolymers with tunable mechanical properties processed by laser-based high-resolution stereolithography. Journal of Micromechanics and Microengineering, 2008, 18, 125014.	2.6	191
179	New Photocleavable Structures. Diacylgermane-Based Photoinitiators for Visible Light Curing. Macromolecules, 2008, 41, 2394-2400.	4.8	164
180	Photoinitiating Monomers Based on Diacrylamides. Macromolecules, 2008, 41, 7953-7958.	4.8	19

#	ARTICLE	IF	CITATIONS
181	Photoinitiators with Functional Groups 9: New Derivatives of Covalently Linked Benzophenone-amine Based Photoinitiators. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2008, 45, 804-810.	2.2	10
182	Mechanistic Investigations on a Diynone Type Photoinitiator. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 44-54.	2.2	15
183	3D-shaping of biodegradable photopolymers for hard tissue replacement. <i>Applied Surface Science</i> , 2007, 254, 1131-1134.	6.1	24
184	One- and two-photon activity of cross-conjugated photoinitiators with bathochromic shift. <i>Journal of Polymer Science Part A</i> , 2007, 45, 3280-3291.	2.3	36
185	Evaluation of Biocompatible Photopolymers II: Further Reactive Diluents. <i>Monatshefte für Chemie</i> , 2007, 138, 261-268.	1.8	38
186	Functional polymers by two-photon 3D lithography. <i>Applied Surface Science</i> , 2007, 254, 836-840.	6.1	78
187	Phenylglycine derivatives as coiniciators for the radical photopolymerization of acidic aqueous formulations. <i>Journal of Polymer Science Part A</i> , 2006, 44, 115-125.	2.3	56
188	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
189	Surface modification of imide containing polymers I: Catalytic groups. <i>European Polymer Journal</i> , 2006, 42, 638-654.	5.4	8
190	Surface modification of imide containing polymers II: Co-reactive groups. <i>European Polymer Journal</i> , 2006, 42, 869-882.	5.4	3
191	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
192	Photopolymers for Rapid Prototyping of Soluble Mold Materials and Molding of Cellular Biomaterials. <i>Monatshefte für Chemie</i> , 2006, 137, 843-853.	1.8	8
193	Peroxide-initiated grafting of maleimides onto hydrocarbon substrates. <i>European Polymer Journal</i> , 2005, 41, 2240-2254.	5.4	7
194	Water-soluble photopolymers for rapid prototyping of cellular materials. <i>Journal of Applied Polymer Science</i> , 2005, 97, 2286-2298.	2.6	56
195	New Materials for Rapid Prototyping Applications. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1253-1256.	2.2	52
196	Photoinitiators with Functional Groups, 8. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1687-1692.	3.9	55
197	1,5-Diphenyl-1,4-diyn-3-one: A highly efficient photoinitiator. <i>Journal of Polymer Science Part A</i> , 2005, 43, 101-111.	2.3	24
198	Fabrication and moulding of cellular materials by rapid prototyping. <i>International Journal of Materials and Product Technology</i> , 2004, 21, 285.	0.2	48

#	ARTICLE	IF	CITATIONS
199	New photocleavable structures. II. $\alpha$ -Cleavable photoinitiators based on pyridines. Journal of Polymer Science Part A, 2004, 42, 752-764.	2.3	35
200	Photoinitiators with functional groups. VI. Chemically bound sensitizers. Journal of Polymer Science Part A, 2004, 42, 2285-2301.	2.3	18
201	Photoinitiators with functional groups. VII. Covalently bonded camphorquinone $\alpha$ amines. Journal of Polymer Science Part A, 2004, 42, 4948-4963.	2.3	36
202	Water Soluble, Photocurable Resins for Rapid Prototyping Applications. Macromolecular Symposia, 2004, 217, 99-108.	0.7	12
203	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
204	Grafting of functional maleimides onto oligo- and polyolefins. Macromolecular Symposia, 2001, 176, 155-166.	0.7	5
205	Novel Photocleavable Structures I: Synthesis of Hydroxyalkylphenone Analogues Electron-rich Heterocycles. Heterocycles, 2001, 55, 1475.	0.7	16
206	Toughening of Photopolymers for Stereolithography (SL). Materials Science Forum, 0, 825-826, 53-59.	0.3	12
207	Maleimide $\alpha$ styrene $\alpha$ butadiene terpolymers: acrylonitrile $\alpha$ butadiene $\alpha$ styrene inspired photopolymers for additive manufacturing. Polymer International, 0, , .	3.1	1
208	Evaluation of suitable onium tetrafluoroborates for cationic polymerization of epoxides. Polymer International, 0, , .	3.1	2