

# Thomas Griesser

## List of Publications by Year in descending order

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83

papers

1,710

citations

218677

26

h-index

345221

36

g-index

86

all docs

86

docs citations

86

times ranked

2416

citing authors

#	ARTICLE	IF	CITATIONS
1	Tough and degradable photopolymers derived from alkyne monomers for 3D printing of biomedical materials. <i>Polymer Chemistry</i> , 2016, 7, 5169-5180.	3.9	86
2	Celluloseâ€Derivativeâ€Based Gate Dielectric for Highâ€Performance Organic Complementary Inverters. <i>Advanced Materials</i> , 2015, 27, 7645-7656.	21.0	69
3	Cellulose as biodegradable high- <i>k</i> dielectric layer in organic complementary inverters. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	65
4	Cellulose based thin films as a platform for drug release studies to mimick wound dressing materials. <i>Cellulose</i> , 2015, 22, 749-761.	4.9	56
5	Digital light processing 3D printing with thiolâ€acrylate vitrimers. <i>Polymer Chemistry</i> , 2021, 12, 639-644.	3.9	53
6	New strategies towards reversible and mendable epoxy based materials employing [4i€s+4i€s] photocycloaddition and thermal cycloreversion of pendant anthracene groups. <i>Polymer</i> , 2015, 80, 76-87.	3.8	50
7	Photolithographic patterning of cellulose: a versatile dual-tone photoresist for advanced applications. <i>Cellulose</i> , 2015, 22, 717-727.	4.9	49
8	Preparation of PDMS ultrathin films and patterned surface modification with cellulose. <i>RSC Advances</i> , 2014, 4, 11955-11961.	3.6	45
9	Tuning the Threshold Voltage in Organic Thinâ€Film Transistors by Local Channel Doping Using Photoreactive Interfacial Layers. <i>Advanced Materials</i> , 2010, 22, 5361-5365.	21.0	44
10	A Study on the Formation and Thermal Stability of 11-MUA SAMs on Au(111)/Mica and on Polycrystalline Gold Foils. <i>Langmuir</i> , 2009, 25, 1427-1433.	3.5	39
11	Design and application of photo-reversible elastomer networks by using the [4i€s+4i€s] cycloaddition reaction of pendant anthracene groups. <i>Polymer</i> , 2016, 102, 10-20.	3.8	37
12	Ring Opening Metathesis Polymerization Derived Polymers as Photoresists: Making Use of Thiolâ€ene Chemistry. <i>Macromolecular Rapid Communications</i> , 2011, 32, 518-522.	3.9	35
13	UV-Induced reduction of graphene oxide in cellulose nanofibril composites. <i>New Journal of Chemistry</i> , 2019, 43, 681-688.	2.8	35
14	Inkjet Printing of Soft, Stretchable Optical Waveguides through the Photopolymerization of High-Profile Linear Patterns. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4941-4947.	8.0	34
15	Switching â€œonâ€ and â€œoffâ€ the adhesion in stimuli-responsive elastomers. <i>Soft Matter</i> , 2018, 14, 2547-2559.	2.7	34
16	Refractive index modulation in polymers bearing photoreactive phenyl and naphthyl ester units using different UV wavelengths. <i>Journal of Materials Chemistry</i> , 2009, 19, 4557.	6.7	33
17	Exploring Network Formation of Tough and Biocompatible Thiolâ€yne Based Photopolymers. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1701-1706.	3.9	33
18	Recent Advances in Functional Polymers Containing Coumarin Chromophores. <i>Polymers</i> , 2021, 13, 56.	4.5	31

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19	UV-Induced Modulation of the Refractive Index and the Surface Properties of Photoreactive Polymers Bearing <i>N</i> -Phenylamide Groups. <i>Macromolecules</i> , 2009, 42, 725-731.	4.8	30
20	Water-Developable Poly(2-oxazoline)-Based Negative Photoresists. <i>Macromolecular Rapid Communications</i> , 2012, 33, 396-400.	3.9	30
21	High performance p-type organic thin film transistors with an intrinsically photopatternable, ultrathin polymer dielectric layer. <i>Organic Electronics</i> , 2013, 14, 3070-3082.	2.6	30
22	Photo-induced crosslinking and thermal de-crosslinking in polynorbornenes bearing pendant anthracene groups. <i>European Polymer Journal</i> , 2014, 52, 98-104.	5.4	30
23	UV-induced modulation of the conductivity of polyaniline: towards a photo-patternable charge injection layer for structured organic light emitting diodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 2922-2928.	6.7	29
24	Wavelength selective refractive index modulation in a ROMP derived polymer bearing phenyl- and ortho-nitrobenzyl ester groups. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3931.	5.5	29
25	Photolithographic Patterning of Polymer Surfaces Using the Photo-Fries Rearrangement: A Selective Postexposure Reactions. <i>Chemistry of Materials</i> , 2007, 19, 3011-3017.	6.7	28
26	Interactions of a cationic cellulose derivative with an ultrathin cellulose support. <i>Carbohydrate Polymers</i> , 2013, 92, 1046-1053.	10.2	27
27	Novel temperature dependent tensile test of freestanding copper thin film structures. <i>Review of Scientific Instruments</i> , 2012, 83, 064702.	1.3	25
28	Direct extreme UV-lithographic conversion of metal xanthates into nanostructured metal sulfide layers for hybrid photovoltaics. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11135.	10.3	24
29	Directed motion of water droplets on multi-gradient photopolymer surfaces. <i>Polymer Chemistry</i> , 2019, 10, 1882-1893.	3.9	24
30	Photo-Fries Rearrangement in Polymeric Media: An Investigation on Fully Aromatic Esters Containing the Naphthyl Chromophore. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 488-498.	2.2	23
31	Cross-linking of ROMP derived polymers using the two-photon induced thiol-ene reaction: towards the fabrication of 3D-polymer microstructures. <i>Polymer Chemistry</i> , 2013, 4, 1708.	3.9	22
32	Micrometer and Nanometer Scale Patterning Using the Photo-Fries Rearrangement: Toward Selective Execution of Molecular Transformations with Nanoscale Spatial Resolution. <i>Langmuir</i> , 2008, 24, 12420-12425.	3.5	21
33	Highly Water-Soluble Alpha-Hydroxyalkylphenone Based Photoinitiator for Low-Migration Applications. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700022.	2.2	20
34	Photo-switching of surface wettability on micropatterned photopolymers for fast transport of water droplets over a long-distance. <i>Polymer Chemistry</i> , 2020, 11, 3125-3135.	3.9	20
35	Photocleavable epoxy based materials. <i>Polymer</i> , 2015, 69, 159-168.	3.8	19
36	One-Step Noncovalent Surface Functionalization of PDMS with Chitosan-Based Bioparticles and Their Protein-Repellent Properties. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700416.	3.7	19

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37	Microwave-Assisted Syntheses in Recyclable Ionic Liquids: Photoresists Based on Renewable Resources. <i>ChemSusChem</i> , 2015, 8, 3401-3404.	6.8	18
38	The Chemistry of Acylgermanes: Triacylgermenolates Represent Valuable Building Blocks for the Synthesis of a Variety of Germanium-Based Photoinitiators. <i>Inorganic Chemistry</i> , 2020, 59, 15204-15217.	4.0	18
39	Self-Reducing Silver Ink on Polyurethane Elastomers for the Manufacture of Thin and Highly Stretchable Electrical Circuits. <i>Chemistry of Materials</i> , 2021, 33, 2742-2755.	6.7	18
40	Photochemical control of the carrier mobility in pentacene-based organic thin-film transistors. <i>Applied Physics Letters</i> , 2010, 96, 213303.	3.3	17
41	Influence of Environmentally Affected Hole-Transport Layers on Spatial Homogeneity and Charge-Transport Dynamics of Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10102-10114.	8.0	17
42	3D multiphoton lithography using biocompatible polymers with specific mechanical properties. <i>Nanoscale Advances</i> , 2020, 2, 2422-2428.	4.6	17
43	Photosensitive polymers bearing fully aromatic esters for multilayer data storage devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 2965.	6.7	16
44	Investigating Photocurable Thiol-Yne Resins for Biomedical Materials. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600450.	3.6	16
45	Reversible photochromism of polynorbornenes bearing spiropyran side groups. <i>Monatshefte für Chemie</i> , 2012, 143, 1551-1558.	1.8	15
46	Cantilever bending based on humidity-actuated mesoporous silica/silicon bilayers. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 637-644.	2.8	15
47	Chemical versus physical grafting of photoluminescent amino-functional carbon dots onto transparent nematic nanocellulose gels and aerogels. <i>Cellulose</i> , 2019, 26, 7781-7796.	4.9	15
48	Vinylcarbonates as low-toxic monomers for digital ink-jet inks: Promising alternatives to acrylate based systems. <i>Progress in Organic Coatings</i> , 2016, 94, 116-123.	3.9	13
49	Photoreactive molecular layers containing aryl ester units: Preparation, UV patterning and post-exposure modification. <i>Materials Chemistry and Physics</i> , 2010, 119, 287-293.	4.0	12
50	Exploring thiol-yne based monomers as low cytotoxic building blocks for radical photopolymerization. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3484-3494.	2.3	12
51	Photoregeneration of Trimethylsilyl Cellulose as a Tool for Microstructuring Ultrathin Cellulose Supports. <i>Molecules</i> , 2014, 19, 16266-16273.	3.8	11
52	Comparative investigation of different silane surface functionalizations of fullerene-like WS <sub>2</sub> . <i>Journal of Materials Science</i> , 2015, 50, 5125-5135.	3.7	11
53	Silicon-based mercaptans: High-performance monomers for thiol-yne photopolymerization. <i>Journal of Polymer Science Part A</i> , 2016, 54, 418-424.	2.3	11
54	Single-step fabrication and work function engineering of Langmuir-Blodgett assembled few-layer graphene films with Li and Au salts. <i>Scientific Reports</i> , 2020, 10, 8476.	3.3	11

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55	Photoreactive Polynorbornene Bearing 4-(Diphenylamino)benzoate Groups: Synthesis and Application in Electroluminescent Devices. <i>Monatshefte für Chemie</i> , 2007, 138, 269-276.	1.8	10
56	Versatile thiol-based reactions for micrometer- and nanometer-scale photopatterning of polymers and biomolecules. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4431-4438.	5.8	10
57	Molecularly imprinted polymers by thiol-ene chemistry: making imprinting even easier. <i>Polymer Chemistry</i> , 2019, 10, 4732-4739.	3.9	10
58	Photo-Fries-based photosensitive polymeric interlayers for patterned organic devices. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 985-993.	2.3	9
59	Amoxidized Fenton-Activated Pine Kraft Lignin Accelerates Synthesis and Curing of Resole Resins. <i>Polymers</i> , 2017, 9, 43.	4.5	9
60	Inkjet Printed Wiring Boards with Vertical Interconnect Access on Flexible, Fully Compostable Cellulose Substrates. <i>Advanced Materials Technologies</i> , 2018, 3, 1700250.	5.8	9
61	Dual-Responsive Polydimethylsiloxane Networks. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2319-2329.	2.3	9
62	Crystallization of pentacene thin films on polymeric dielectrics. <i>Synthetic Metals</i> , 2012, 161, 2598-2602.	3.9	8
63	Enhancing the stability of UV-curable thiol/vinyl carbonate resins. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	8
64	Characterization of Surface and Structure of In Situ Doped Sol-Gel-Derived Silicon Carbide. <i>Advanced Engineering Materials</i> , 2018, 20, 1701067.	3.5	8
65	Protein repellent anti-coagulative mixed-charged cellulose derivative coatings. <i>Carbohydrate Polymers</i> , 2021, 254, 117437.	10.2	8
66	Microstructural Effects on the Interfacial Adhesion of Nanometer-Thick Cu Films on Glass Substrates: Implications for Microelectronic Devices. <i>ACS Applied Nano Materials</i> , 2021, 4, 61-70.	5.0	8
67	Hybrid solar cells based on CuInS <sub>2</sub> and MEH-PPV. , 2006, , .		7
68	Reactive cellulose-based thin films – a concept for multifunctional polysaccharide surfaces. <i>RSC Advances</i> , 2016, 6, 72378-72385.	3.6	7
69	Dissolution Testing of Hardly Soluble Materials by Surface Sensitive Techniques: Clotrimazole from an Insoluble Matrix. <i>Pharmaceutical Research</i> , 2014, 31, 2708-2715.	3.5	6
70	Photopatternable Epoxy-Based Thermosets. <i>Materials</i> , 2019, 12, 2350.	2.9	6
71	UV-induced refractive index modulation of photoreactive polymers bearing <i>N</i> -acylcarbazole groups. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3507-3514.	2.3	5
72	Influence of TiO <sub>x</sub> and Ti cathode interlayers on the performance and stability of hybrid solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 217-224.	6.2	5

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73	Isolable Stannenolates Enable the Synthesis of Visible-Light Photoinitiators. ChemPhotoChem, 0, , .	3.0	5
74	Ex situ and in situ characterization of patterned photoreactive thin organic surface layers using friction force microscopy. Scanning, 2014, 36, 590-598.	1.5	4
75	Synthesis and characterization of diacylgermanes: persistent derivatives with superior photoreactivity. Dalton Transactions, 2021, 50, 11965-11974.	3.3	4
76	Patterned Immobilization of a Luminescent Ru(II) Complex in Polymer Films Using the Photoreaction of Benzyl thiocyanate: Toward Color Emission Tuning of Electroluminescent Devices. Macromolecular Chemistry and Physics, 2012, 213, 367-373.	2.2	3
77	Tailored Interfaces in Fiber-Reinforced Elastomers: A Surface Treatment Study on Optimized Load Coupling via the Modified Fiber Bundle Debond Technique. Polymers, 2021, 13, 36.	4.5	3
78	Exploiting the Carbon and Oxa Michael Addition Reaction for the Synthesis of Yne Monomers: Towards the Conversion of Acrylates to Biocompatible Building Blocks. ChemPhotoChem, 2020, 4, 476-480.	3.0	2
79	Hybrid silica micro-particles with light-responsive surface properties and Janus-like character. Polymer Chemistry, 2021, 12, 3925-3938.	3.9	2
80	Patterned immobilisation of silicon dioxide nanoparticles on the surface of a photosensitive polymer. Thin Solid Films, 2012, 520, 1789-1793.	1.8	1
81	Christian Doppler Laboratory for Functional and Polymer Based Ink-jet Inks. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2014, 159, 50-54.	1.0	1
82	Data on synthesis and thermo-mechanical properties of stimuli-responsive rubber materials bearing pendant anthracene groups. Data in Brief, 2016, 9, 524-529.	1.0	1
83	New water-based sol-gel synthesis routes for LaNi <sub>0.6</sub> Fe <sub>0.4</sub> O <sub>3-<math>\delta</math></sub> thin films. Solid State Ionics, 2015, 273, 30-34.	2.7	0