

Tobias Rudolph

List of Publications by Year in descending order

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41
papers

1,198
citations

304743

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377865

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docs citations

41
times ranked

2026
citing authors

#	ARTICLE	IF	CITATIONS
1	pH-Responsive Side Chains as a Tool to Control Aqueous Self-Assembly Mechanisms. <i>Chemistry - A European Journal</i> , 2020, 26, 606-610.	3.3	7
2	Controlling Actuation Performance in Physically Cross-Linked Polylactone Blends Using Polylactide Stereocomplexation. <i>Biomacromolecules</i> , 2020, 21, 338-348.	5.4	18
3	Polymeric Microcuboids Programmable for Temperature-Memory. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000333.	3.6	4
4	Torsional Fiber Actuators from Shape-memory Polymer. <i>MRS Advances</i> , 2018, 3, 3861-3868.	0.9	7
5	Reprogrammable, magnetically controlled polymeric nanocomposite actuators. <i>Materials Horizons</i> , 2018, 5, 861-867.	12.2	46
6	Extractable Free Polymer Chains Enhance Actuation Performance of Crystallizable Poly(μ -caprolactone) Networks and Enable Self-Healing. <i>Polymers</i> , 2018, 10, 255.	4.5	10
7	Reversible Actuation of Thermoplastic Multiblock Copolymers with Overlapping Thermal Transitions of Crystalline and Glassy Domains. <i>Macromolecules</i> , 2018, 51, 4624-4632.	4.8	25
8	Nanocellulose Aerogels for Supporting Iron Catalysts and In Situ Formation of Polyethylene Nanocomposites. <i>Advanced Functional Materials</i> , 2017, 27, 1605586.	14.9	57
9	Photocatalytic Hydrogen Evolution Driven by [FeFe] Hydrogenase Models Tethered to Fluorene and Silafluorene Sensitizers. <i>Chemistry - A European Journal</i> , 2017, 23, 334-345.	3.3	34
10	Two-Level Shape Changes of Polymeric Microcuboids Prepared from Crystallizable Copolymer Networks. <i>Macromolecules</i> , 2017, 50, 2518-2527.	4.8	18
11	Noncontinuously Responding Polymeric Actuators. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33559-33564.	8.0	23
12	Selective crosslinking or addressing of individual domains within block copolymer nanostructures. <i>European Polymer Journal</i> , 2016, 80, 317-331.	5.4	25
13	Understanding Toughness in Bioinspired Cellulose Nanofibril/Polymer Nanocomposites. <i>Biomacromolecules</i> , 2016, 17, 2417-2426.	5.4	49
14	Maleimide-functionalized poly(2-ethyl-2-oxazoline): synthesis and reactivity. <i>Polymer Chemistry</i> , 2016, 7, 2419-2426.	3.9	10
15	Hierarchical Self-Assembly of Double-Crystalline Poly(ferrocenyldimethylsilane)- <i>block</i> -poly(2-isopropyl-2-oxazoline) (PFDMS- <i>b</i> -P <i>i</i> PrOx) Block Copolymers. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1651-1657.	3.9	7
16	Synthesis and Complexation of Well-Defined Labeled Poly(N,N-dimethylaminoethyl methacrylate)s (PDMAEMA). <i>Polymers</i> , 2015, 7, 2478-2493.	4.5	17
17	Star-shaped poly(2-ethyl-2-oxazoline) featuring a porphyrin core: synthesis and metal complexation. <i>E-Polymers</i> , 2015, 15, 227-235.	3.0	12
18	Toward Anisotropic Hybrid Materials: Directional Crystallization of Amphiphilic Polyoxazoline-Based Triblock Terpolymers. <i>ACS Nano</i> , 2015, 9, 10085-10098.	14.6	29

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19	Poly(thiolactone) homo- and copolymers from maleimide thiolactone: synthesis and functionalization. <i>Polymer Chemistry</i> , 2015, 6, 4240-4251.	3.9	33
20	Schizophrenic thermoresponsive block copolymer micelles based on LCST and UCST behavior in ethanol/water mixtures. <i>European Polymer Journal</i> , 2015, 69, 460-471.	5.4	25
21	Incorporation of core-shell particles into methacrylate based composites for improvement of the mechanical properties. <i>Polymer Chemistry</i> , 2015, 6, 5273-5280.	3.9	10
22	Amphiphilic polyether-based block copolymers as crosslinkable ligands for Au-nanoparticles. <i>Polymer Chemistry</i> , 2015, 6, 5633-5642.	3.9	14
23	Synthesis and self-assembly of poly(ferrocenyldimethylsilane)-block-poly(2-alkyl-2-oxazoline) block copolymers. <i>Polymer Chemistry</i> , 2015, 6, 1604-1612.	3.9	11
24	Poly(2-vinyl pyridine)-block-Poly(ethylene oxide) Featuring a Furan Group at the Block Junction Synthesis and Functionalization. <i>Macromolecular Rapid Communications</i> , 2014, 35, 916-921.	3.9	11
25	Controlling Aqueous Self-Assembly Mechanisms by Hydrophobic Interactions. <i>Chemistry - A European Journal</i> , 2014, 20, 13871-13875.	3.3	42
26	Porous NiOx nanostructures templated by polystyrene-block-poly(2-vinylpyridine) diblock copolymer micelles. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6158.	10.3	13
27	Star-Shaped Drug Carriers for Doxorubicin with POEGMA and POEtOxMA Brush-like Shells: A Structural, Physical, and Biological Comparison. <i>Biomacromolecules</i> , 2013, 14, 2536-2548.	5.4	40
28	Self-Healing Materials via Reversible Crosslinking of Poly(ethylene oxide)-Block-Poly(furfuryl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (oxide)-block-poly(4921-4932.	14.9	107
29	Biocompatible Multishell Architecture for Iron Oxide Nanoparticles. <i>Macromolecular Bioscience</i> , 2013, 13, 93-105.	4.1	5
30	Amphiphilic star-shaped block copolymers as unimolecular drug delivery systems: investigations using a novel fungicide. <i>Soft Matter</i> , 2013, 9, 715-726.	2.7	32
31	Hybrid Fe3O4@amino cellulose nanoparticles in organic media Heterogeneous ligands for atom transfer radical polymerizations. <i>Journal of Colloid and Interface Science</i> , 2013, 390, 25-33.	9.4	41
32	Aqueous solution behavior of comb-shaped poly(2-ethyl-2-oxazoline). <i>Journal of Polymer Science Part A</i> , 2013, 51, 139-148.	2.3	45
33	A strong cationic Brønsted acid, [H(OEt)2][Al{OC(CF3)3}4], as an efficient initiator for the cationic ring-opening polymerization of 2-alkyl-2-oxazolines. <i>Polymer Chemistry</i> , 2013, 4, 495-505.	3.9	19
34	Synthesis and Solution Properties of Double Hydrophilic Poly(ethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (oxide)-block-poly(4.3	4.3	26
35	Supramolecular three-armed star polymers via cyclodextrin host-guest self-assembly. <i>Polymer Chemistry</i> , 2012, 3, 3139.	3.9	74
36	Homo- and diblock copolymers of poly(furfuryl glycidyl ether) by living anionic polymerization: Toward reversibly core-crosslinked micelles. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4958-4965.	2.3	44

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37	UV-induced crosslinking of the polybutadiene domains in lamellar polystyrene-block-polybutadiene block copolymer films – An in-depth study. <i>Polymer</i> , 2012, 53, 5641-5648.	3.8	7
38	Bis-hydrophilic and functional triblock terpolymers based on polyethers: Synthesis and self-assembly in solution. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2914-2923.	2.3	15
39	Core-crosslinked compartmentalized cylinders. <i>Nanoscale</i> , 2011, 3, 288-297.	5.6	41
40	Single chain self-assembly of well-defined heterotelechelic polymers generated by ATRP and click chemistry revisited. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2566-2576.	2.3	50
41	Double Stimuli-Responsive Ultrafiltration Membranes from Polystyrene- <i>block</i> -poly(<i>N,N</i> -dimethylaminoethyl methacrylate) Diblock Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1492-1503.	8.0	95