JÃ¼rgen Vitz

List of Publications by Year
in descending order

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54	2,262	304743	214800
papers	citations	22 h-index	47 g-index

62	62	62	3229
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extended dissolution studies of cellulose in imidazolium based ionic liquids. Green Chemistry, 2009, 11, 417.	9.0	406
2	Acylhydrazones as Reversible Covalent Crosslinkers for Selfâ€Healing Polymers. Advanced Functional Materials, 2015, 25, 3295-3301.	14.9	203
3	Recent developments in the utilization of green solvents in polymer chemistry. Chemical Society Reviews, 2010, 39, 3317.	38.1	187
4	Oneâ€Component Intrinsic Selfâ€Healing Coatings Based on Reversible Crosslinking by Dielsâ€“Alder Cycloadditions. Macromolecular Chemistry and Physics, 2013, 214, 1636-1649.	2.2	128
5	Self-healing metallopolymers based on cadmium bis(terpyridine) complex containing polymer networks. Polymer Chemistry, 2013, 4, 4966.	3.9	119
6	Influence of different branched alkyl side chains on the properties of imidazolium-based ionic liquids. Journal of Materials Chemistry, 2008, 18, 5267.	6.7	118
7	Selfâ€Healing Materials via Reversible Crosslinking of Poly(ethylene oxide)â€Blockâ€Poly(furfuryl) Tj ETQq1 1 0.784314 rgBT /Ov 4921-4932.	14.9	107
8	Intrinsic self-healing polymers with a high E-modulus based on dynamic reversible urea bonds. NPG Asia Materials, 2017, 9, e420-e420.	7.9	97
9	Polymeric Halogenâ€Bondâ€Based Donor Systems Showing Selfâ€Healing Behavior in Thin Films. Angewandte Chemie - International Edition, 2017, 56, 4047-4051.	13.8	79
10	Self-healing response in supramolecular polymers based on reversible zincâ€“histidine interactions. Polymer, 2015, 69, 274-282.	3.8	66
11	Ionic liquid supported tin reagents for Stille cross coupling reactions. Green Chemistry, 2007, 9, 431.	9.0	40
12	Total Synthesis of Premithramycinone H and Related Anthrapyran Antibiotics. European Journal of Organic Chemistry, 2004, 2004, 209-219.	2.4	38
13	Photoinduced polyaddition of multifunctional azides and alkynes. Polymer Chemistry, 2013, 4, 3938.	3.9	37
14	A Metal Salt Dependent Self-Healing Response in Supramolecular Block Copolymers. Macromolecules, 2016, 49, 8418-8429.	4.8	37
15	Histidineâ€“Zinc Interactions Investigated by Isothermal Titration Calorimetry (ITC) and their Application in Selfâ€Healing Polymers. Macromolecular Chemistry and Physics, 2017, 218, 1600458.	2.2	37
16	Hydrodynamic Analysis Resolves the Pharmaceutically-Relevant Absolute Molar Mass and Solution Properties of Synthetic Poly(ethylene glycol)s Created by Varying Initiation Sites. Analytical Chemistry, 2017, 89, 1185-1193.	6.5	34
17	Mass spectrometric imaging of synthetic polymers. Analytica Chimica Acta, 2014, 808, 10-17.	5.4	32
18	Shapeâ€Memory Metallopolymers Based on Two Orthogonal Metalâ€“Ligand Interactions. Advanced Materials, 2021, 33, e2006655.	21.0	31

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19	Metalâ€Free Cycloaddition of Internal Alkynes and Multifunctional Azides Under Solventâ€Free Conditions. Macromolecular Chemistry and Physics, 2014, 215, 1603-1608.	2.2	27
20	Stille Crossâ€Coupling Reactions with Tin Reagents Supported on Ionic Liquids. European Journal of Organic Chemistry, 2009, 2009, 3249-3257.	2.4	24
21	Efficient Cu(I) acetateâ€catalyzed cycloaddition of multifunctional alkynes and azides: From solution to bulk polymerization. Journal of Polymer Science Part A, 2014, 52, 239-247.	2.3	24
22	A healing ionomer crosslinked by a bis-bidentate halogen bond linker: a route to hard and healable coatings. Polymer Chemistry, 2018, 9, 2193-2197.	3.9	24
23	Quantification of the scratch-healing efficiency for novel zwitterionic polymers. NPG Asia Materials, 2020, 12, .	7.9	23
24	Increased stability in selfâ€healing polymer networks based on reversible Michael addition reactions. Journal of Applied Polymer Science, 2017, 134, .	2.6	21
25	Do You Get What You See? Understanding Molecular Selfâ€Healing. Chemistry - A European Journal, 2018, 24, 2493-2502.	3.3	18
26	Microwave-assisted synthesis of imidazolium ionenes and their application as humidity absorbers. Journal of Materials Chemistry, 2010, 20, 3583.	6.7	17
27	Total Synthesis ofrac-Î³-Indomycinone by Bakerâ€“Venkataraman Rearrangement. European Journal of Organic Chemistry, 2007, 2007, 1905-1911.	2.4	16
28	First enantiospecific Bakerâ€“Venkataraman-rearrangements aiming at the total synthesis of chiral anthrapyran antibiotics. Tetrahedron: Asymmetry, 2006, 17, 3051-3057.	1.8	15
29	Molecular solutions of cellulose in mixtures of ionic liquids with pyridine. Russian Journal of Applied Chemistry, 2009, 82, 666-672.	0.5	15
30	Bisâ€hydrophilic and functional triblock terpolymers based on polyethers: Synthesis and selfâ€assembly in solution. Journal of Polymer Science Part A, 2012, 50, 2914-2923.	2.3	15
31	Remendable polymers via reversible Dielsâ€“Alder cycloaddition of anthraceneâ€containing copolymers with fullerenes. Journal of Applied Polymer Science, 2018, 135, 45916.	2.6	15
32	Semiautomated Parallel RAFT Copolymerization of Isoprene with Glycidyl Methacrylate. ACS Combinatorial Science, 2019, 21, 771-781.	3.8	15
33	Polymerbasierte HalogenbrÃ¼ckendonoren mit selbstheilenden Eigenschaften in Filmen. Angewandte Chemie, 2017, 129, 4105-4110.	2.0	14
34	Imidazolium Based Ionic Liquids as Solvents for Cellulose Chemistry. ACS Symposium Series, 2010, , 299-317.	0.5	12
35	Application of Matrix-Assisted Laser Desorption/Ionization Mass Spectrometric Imaging for Photolithographic Structuring. Analytical Chemistry, 2012, 84, 6921-6925.	6.5	12
36	Polymerization of ethylene oxide under controlled monomer addition via a mass flow controller for tailor made polyethylene oxides. Polymer Chemistry, 2016, 7, 4063-4071.	3.9	12

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37	Cellulose molecular properties in 1-alkyl-3-methylimidazolium-based ionic liquid mixtures with pyridine. Carbohydrate Polymers, 2010, 82, 1046-1053.	10.2	11
38	A translation of the structure of mussel byssal threads into synthetic materials by the utilization of histidine-rich block copolymers. Polymer Chemistry, 2018, 9, 3543-3551.	3.9	11
39	Complexation of Terpyridineâ€Containing Dextrans: Toward Waterâ€Soluble Supramolecular Structures. Macromolecular Rapid Communications, 2010, 31, 921-927.	3.9	10
40	Macromonomers as Wellâ€Defined Building Blocks in the Synthesis of Hybrid Octafunctional Starâ€Shaped Poly(ethylene oxide)s. Macromolecular Chemistry and Physics, 2012, 213, 2181-2191.	2.2	10
41	Fast Screening of Diol Impurities in Methoxy Poly(Ethylene Glycol)s (mPEG)s by Liquid Chromatography on Monolithic Silica Rods. Polymers, 2018, 10, 1395.	4.5	10
42	â€œGreenâ€•ethers as solvent alternatives for anionic ring-opening polymerizations of ethylene oxide (EO): In-situ kinetic and advanced characterization studies. Polymer, 2018, 159, 86-94.	3.8	10
43	Precise synthesis of undecenyl poly(ethylene oxide) macromonomers as heterofunctional building blocks for the synthesis of linear diblocks or of branched materials. European Polymer Journal, 2014, 57, 221-236.	5.4	9
44	Palladiumâ€SCS Pincer Complexes as Crossâ€Linking Moieties in Selfâ€Healing Metallopolymers. Macromolecular Rapid Communications, 2018, 39, e1800495.	3.9	9
45	Biological evaluation of 1,2,3â€triazoleâ€based polymers for potential applications as hard tissue material. Journal of Polymer Science Part A, 2015, 53, 1843-1847.	2.3	8
46	Influence of Aspartate Moieties on the Selfâ€Healing Behavior of Histidineâ€Rich Supramolecular Polymers. Macromolecular Rapid Communications, 2018, 39, e1700742.	3.9	8
47	Spherical and Wormâ€Like Micelles from Fructoseâ€Functionalized Polyether Block Copolymers. Macromolecular Bioscience, 2018, 18, e1700396.	4.1	7
48	Shape-Memory Metallopolymer Networks Based on a Triazoleâ€“Pyridine Ligand. Polymers, 2019, 11, 1889.	4.5	7
49	Well-defined poly(ethylene glycol) polymers as non-conventional reactive tracers of colloidal transport in porous media. Journal of Colloid and Interface Science, 2021, 584, 592-601.	9.4	6
50	Regaining Potential: Studies Concerning 2-Ferrocenylethyl Methacrylate, Its Polymers, and Application in Redox Flow Batteries. Macromolecules, 2022, 55, 1576-1589.	4.8	6
51	Selfâ€Healing Materials: Acylhydrazones as Reversible Covalent Crosslinkers for Selfâ€Healing Polymers (Adv. Funct. Mater. 22/2015). Advanced Functional Materials, 2015, 25, 3278-3278.	14.9	4
52	Effect of ecosystem type and fire on chemistry of WEOM as measured by LDI-TOF-MS and NMR. Talanta, 2017, 162, 589-596.	5.5	3
53	Poly(n â€alkyl methacrylate)s as Metallocene Catalyst Supports in Nonpolar Media. Macromolecular Chemistry and Physics, 2019, 220, 1900259.	2.2	3
54	Macromol. Rapid Commun. 17/2018. Macromolecular Rapid Communications, 2018, 39, 1870041.	3.9	0