

Philipp Michael

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,359
citations

566801

15
h-index

580395

25
g-index

26
all docs

26
docs citations

26
times ranked

1677
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Healing Polymers via Supramolecular Forces. <i>Macromolecular Rapid Communications</i> , 2013, 34, 203-220.	2.0	508
2	CuAAC-Based Click Chemistry in Self-Healing Polymers. <i>Accounts of Chemical Research</i> , 2017, 50, 2610-2620.	7.6	137
3	A Mechanochemically Triggered "Click" Catalyst. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13918-13922.	7.2	122
4	Self-healing epoxy nanocomposites via reversible hydrogen bonding. <i>Composites Part B: Engineering</i> , 2019, 157, 1-13.	5.9	103
5	Autocatalysis in the Room Temperature Copper(I)-Catalyzed Alkyne-Azide "Click" Cycloaddition of Multivalent Poly(acrylate)s and Poly(isobutylene)s. <i>Macromolecules</i> , 2012, 45, 3335-3345.	2.2	65
6	Low-Temperature Cu(I)-Catalyzed "Click" Reactions for Self-Healing Polymers. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 205-214.	1.1	65
7	Reversible Self-Healing Carbon-Based Nanocomposites for Structural Applications. <i>Polymers</i> , 2019, 11, 903.	2.0	58
8	Improving autonomous self healing via combined chemical/physical principles. <i>Polymer</i> , 2015, 69, 216-227.	1.8	57
9	Self-repairing CFRPs targeted towards structural aerospace applications. <i>International Journal of Structural Integrity</i> , 2016, 7, 656-670.	1.8	34
10	Mechanochemical Activation of Fluorogenic CuAAC "Click" Reactions for Stress-Sensing Applications. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800376.	2.0	30
11	Synthesis and characterization of polymer linked copper(I) bis(N-heterocyclic carbene) mechanocatalysts. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3893-3907.	2.5	23
12	Insights into the Mechanism of Polymer Coating Self-Healing Using Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2014, 68, 541-548.	1.2	20
13	Synthesis and Mechanochemical Activity of Peptide-Based Cu(I) Bis(N-Heterocyclic Carbene) Complexes. <i>Biomimetics</i> , 2019, 4, 24.	1.5	20
14	Detection of stress in polymers: mechanochemical activation of CuAAC click reactions in poly(urethane) networks. <i>Soft Matter</i> , 2020, 16, 1137-1141.	1.2	19
15	Synthesis of polymer-linked copper(i) bis(N-heterocyclic carbene) complexes of linear and chain extended architecture. <i>Polymer Chemistry</i> , 2019, 10, 1078-1088.	1.9	15
16	Functional structural nanocomposites with integrated self-healing ability. <i>Materials Today: Proceedings</i> , 2021, 34, 243-249.	0.9	14
17	Tunneling Atomic Force Microscopy Analysis of Supramolecular Self-Responsive Nanocomposites. <i>Polymers</i> , 2021, 13, 1401.	2.0	11
18	Self-Diagnostic Polymers' Inline Detection of Thermal Degradation of Unsaturated Poly(ester imide)s. <i>Advanced Materials</i> , 2021, 33, e2100068.	11.1	8

#	ARTICLE	IF	CITATIONS
19	Activation of a Copper Biscarbene Mechanoâ€Catalyst Using Singleâ€Molecule Force Spectroscopy Supported by Quantum Chemical Calculations. Chemistry - A European Journal, 2021, 27, 8723-8729.	1.7	6
20	Development of aeronautical epoxy nanocomposites having an integrated selfhealing ability. MATEC Web of Conferences, 2018, 233, 00021.	0.1	3
21	Cyclopropanation of poly(isoprene) using NHCâ€Cu (I) catalysts: Introducing carboxylates. Journal of Polymer Science, 2020, 58, 2864-2874.	2.0	1
22	Chemosensors: Selfâ€Diagnostic Polymersâ€”Inline Detection of Thermal Degradation of Unsaturated Poly(ester imide)s (Adv. Mater. 18/2021). Advanced Materials, 2021, 33, 2170140.	11.1	1