Philipp Michael

List of Publications by Year
in descending order

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22	1,359	566801 15	580395 25
papers	citations	h-index	g-index

26	26	26	1677
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functional structural nanocomposites with integrated self-healing ability. Materials Today: Proceedings, 2021, 34, 243-249.	0.9	14
2	Selfâ€Diagnostic Polymersâ€”Inline Detection of Thermal Degradation of Unsaturated Poly(ester imide)s. Advanced Materials, 2021, 33, e2100068.	11.1	8
3	Tunneling Atomic Force Microscopy Analysis of Supramolecular Self-Responsive Nanocomposites. Polymers, 2021, 13, 1401.	2.0	11
4	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
5	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
6	Detection of stress in polymers: mechanochemical activation of CuAAC click reactions in poly(urethane) networks. Soft Matter, 2020, 16, 1137-1141.	1.2	19
7	Cyclopropanation of poly(isoprene) using NHCâ€Cu (I) catalysts: Introducing carboxylates. Journal of Polymer Science, 2020, 58, 2864-2874.	2.0	1
8	Self-healing epoxy nanocomposites via reversible hydrogen bonding. Composites Part B: Engineering, 2019, 157, 1-13.	5.9	103
9	Synthesis of polymer-linked copper(i) bis(N-heterocyclic carbene) complexes of linear and chain extended architecture. Polymer Chemistry, 2019, 10, 1078-1088.	1.9	15
10	Reversible Self-Healing Carbon-Based Nanocomposites for Structural Applications. Polymers, 2019, 11, 903.	2.0	58
11	Synthesis and Mechanochemical Activity of Peptide-Based Cu(I) Bis(N-Heterocyclic Carbene) Complexes. Biomimetics, 2019, 4, 24.	1.5	20
12	Development of aeronautical epoxy nanocomposites having an integrated selfhealing ability. MATEC Web of Conferences, 2018, 233, 00021.	0.1	3
13	Mechanochemical Activation of Fluorogenic CuAAC â€œClickâ€•Reactions for Stressâ€Sensing Applications. Macromolecular Rapid Communications, 2018, 39, e1800376.	2.0	30
14	Synthesis and characterization of polymer linked copper(I) bis(Nâ€heterocyclic carbene) mechanocatalysts. Journal of Polymer Science Part A, 2017, 55, 3893-3907.	2.5	23
15	CuAAC-Based Click Chemistry in Self-Healing Polymers. Accounts of Chemical Research, 2017, 50, 2610-2620.	7.6	137
16	Self-repairing CFRPs targeted towards structural aerospace applications. International Journal of Structural Integrity, 2016, 7, 656-670.	1.8	34
17	A Mechanochemically Triggered â€œClickâ€•Catalyst. Angewandte Chemie - International Edition, 2015, 54, 13918-13922.	7.2	122
18	Improving autonomous self healing via combined chemical/physical principles. Polymer, 2015, 69, 216-227.	1.8	57

#	Article	IF	Citations
19	Insights into the Mechanism of Polymer Coating Self-Healing Using Raman Spectroscopy. Applied Spectroscopy, 2014, 68, 541-548.	1.2	20
20	Selfâ€Healing Polymers via Supramolecular Forces. Macromolecular Rapid Communications, 2013, 34, 203-220.	2.0	508
21	Autocatalysis in the Room Temperature Copper(I)-Catalyzed Alkyneâ€“Azide â€œClickâ€•Cycloaddition of Multivalent Poly(acrylate)s and Poly(isobutylene)s. Macromolecules, 2012, 45, 3335-3345.	2.2	65
22	Lowâ€Temperature Cu(I)â€Catalyzed â€œClickâ€•Reactions for Selfâ€Healing Polymers. Macromolecular Chemistry and Physics, 2012, 213, 205-214.	1.1	65