Huan Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1737271/publications.pdf

Version: 2024-02-01

40 papers 2,648 citations

25 h-index

236612

42 g-index

42 all docs 42 docs citations

times ranked

42

2480 citing authors

#	Article	IF	CITATIONS
1	Understanding the cavitation and crazing behavior in the polymer nanocomposite by tuning shape and size of nanofiller. Polymer, 2020, 188, 122103.	1.8	11
2	A Polymer with Mechanochemically Active Hidden Length. Journal of the American Chemical Society, 2020, 142, 18687-18697.	6.6	46
3	A Mechanochemical Reaction Cascade for Controlling Loadâ€Strengthening of a Mechanochromic Polymer. Angewandte Chemie, 2020, 132, 22164-22169.	1.6	9
4	A Mechanochemical Reaction Cascade for Controlling Loadâ€Strengthening of a Mechanochromic Polymer. Angewandte Chemie - International Edition, 2020, 59, 21980-21985.	7.2	43
5	Dynamic Polymer Network System Mediated by Radically Exchangeable Covalent Bond and Carbolong Complex. ACS Macro Letters, 2020, 9, 344-349.	2.3	30
6	Mechanochromism and optical remodeling of multi-network elastomers containing anthracene dimers. Chemical Science, 2019, 10, 8367-8373.	3.7	62
7	"Carbolong―polymers with near infrared triggered, spatially resolved and rapid self-healing properties. Polymer Chemistry, 2019, 10, 386-394.	1.9	27
8	A cyclic cinnamate dimer mechanophore for multimodal stress responsive and mechanically adaptable polymeric materials. Polymer Chemistry, 2019, 10, 905-910.	1.9	19
9	Cavitation, crazing and bond scission in chemically cross-linked polymer nanocomposites. Soft Matter, 2019, 15, 9195-9204.	1.2	8
10	A rapid and scalable integrated membrane separation process for purification of polysaccharides from Enteromorpha prolifera. Natural Product Research, 2019, 33, 3109-3119.	1.0	8
11	Multi-modal mechanophores based on cinnamate dimers. Nature Communications, 2017, 8, 1147.	5.8	106
12	Mechanochromism and Mechanicalâ€Forceâ€Triggered Crossâ€Linking from a Single Reactive Moiety Incorporated into Polymer Chains. Angewandte Chemie, 2016, 128, 3092-3096.	1.6	35
13	Mechanochromism and Mechanicalâ€Forceâ€Triggered Crossâ€Linking from a Single Reactive Moiety Incorporated into Polymer Chains. Angewandte Chemie - International Edition, 2016, 55, 3040-3044.	7.2	202
14	Titelbild: Mechanochromism and Mechanicalâ€Forceâ€Triggered Crossâ€Linking from a Single Reactive Moiety Incorporated into Polymer Chains (Angew. Chem. 9/2016). Angewandte Chemie, 2016, 128, 2999-2999.	1.6	2
15	Nanocavitation around a crack tip in a soft nanocomposite: A scanning microbeam small angle X-ray scattering study. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 422-429.	2.4	33
16	A simple and versatile approach to self-healing polymers and electrically conductive composites. RSC Advances, 2015, 5, 13261-13269.	1.7	17
17	Host–guest interaction between fluoro-substituted azobenzene derivative and cyclodextrins. RSC Advances, 2015, 5, 12007-12014.	1.7	27
18	Compositional- and time-dependent dissipation, recovery and fracture toughness in hydrophobically reinforced hybrid hydrogels. Polymer, 2015, 80, 130-137.	1.8	20

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19	Mechanochemistry of Topological Complex Polymer Systems. Topics in Current Chemistry, 2014, 369, 135-207.	4.0	19
20	Mechanical Activation of Mechanophore Enhanced by Strong Hydrogen Bonding Interactions. ACS Macro Letters, 2014, 3, 141-145.	2.3	101
21	Self-healing metallo-supramolecular polymers from a ligand macromolecule synthesized via copper-catalyzed azide–alkyne cycloaddition and thiol–ene double "click―reactions. Polymer Chemistry, 2014, 5, 1945-1953.	1.9	61
22	Spiropyran as a Mechanochromic Probe in Dual Cross-Linked Elastomers. Macromolecules, 2014, 47, 6783-6790.	2.2	119
23	Mechanoresponsive PS-PnBA-PS Triblock Copolymers via Covalently Embedding Mechanophore. ACS Macro Letters, 2013, 2, 705-709.	2.3	81
24	Biomimetic Modular Polymer with Tough and Stress Sensing Properties. Macromolecules, 2013, 46, 6566-6574.	2.2	96
25	Mechanoresponsive Healable Metallosupramolecular Polymers. Macromolecules, 2013, 46, 8649-8656.	2.2	156
26	Using metal–ligand interactions to access biomimetic supramolecular polymers with adaptive and superb mechanical properties. Journal of Materials Chemistry B, 2013, 1, 4809.	2.9	26
27	Multiresponsive supramolecular gels constructed by orthogonal metal–ligand coordination and hydrogen bonding. European Polymer Journal, 2013, 49, 4062-4071.	2.6	19
28	Opening and Closing of Nanocavities under Cyclic Loading in a Soft Nanocomposite Probed by Real-Time Small-Angle X-ray Scattering. Macromolecules, 2013, 46, 900-913.	2.2	34
29	Strain induced nanocavitation and crystallization in natural rubber probed by real time small and wide angle Xâ€ray scattering. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1125-1138.	2.4	33
30	Synthesis of Silver Nanoparticles with Tunable Morphologies via a Reverse Nano-Emulsion Route. Materials Transactions, 2013, 54, 1145-1148.	0.4	7
31	Nanocavitation in Carbon Black Filled Styrene–Butadiene Rubber under Tension Detected by Real Time Small Angle X-ray Scattering. Macromolecules, 2012, 45, 1529-1543.	2.2	109
32	Volume changes in a filled elastomer studied via digital image correlation. Polymer Testing, 2012, 31, 663-670.	2.3	33
33	Effects of precipitate agents on temperature-responsive sol–gel transitions of PLGA–PEG–PLGA copolymers in water. Colloid and Polymer Science, 2010, 288, 1151-1159.	1.0	21
34	Frequency- and Temperature-Dependent Rheological Properties of an Amphiphilic Block Co-polymer in Water and Including Cell-Culture Media. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 253-269.	1.9	20
35	Biodegradability and Biocompatibility of Thermoreversible Hydrogels Formed from Mixing a Sol and a Precipitate of Block Copolymers in Water. Biomacromolecules, 2010, 11, 2169-2178.	2.6	157
36	Mixing a Sol and a Precipitate of Block Copolymers with Different Block Ratios Leads to an Injectable Hydrogel. Biomacromolecules, 2009, 10, 1547-1553.	2.6	123

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37	Injectable block copolymer hydrogels for sustained release of a PEGylated drug. International Journal of Pharmaceutics, 2008, 348, 95-106.	2.6	183
38	Roles of Hydrophilic Homopolymers on the Hydrophobic-Association-Induced Physical Gelling of Amphiphilic Block Copolymers in Water. Macromolecules, 2008, 41, 6493-6499.	2.2	120
39	Temperature-induced spontaneous sol-gel transitions of poly(D,L-lactic acid-co-glycolic) Tj ETQq1 1 0.784314 rgBT end-capped derivatives in water. Journal of Polymer Science Part A, 2007, 45, 1122-1133.	/Overlock 2.5	R 10 Tf 50 6 168
40	A Subtle End-Group Effect on Macroscopic Physical Gelation of Triblock Copolymer Aqueous Solutions. Angewandte Chemie - International Edition, 2006, 45, 2232-2235.	7.2	249