

Wengui Weng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8686292/publications.pdf>

Version: 2024-02-01

53
papers

5,536
citations

126907

33
h-index

155660

55
g-index

57
all docs

57
docs citations

57
times ranked

5874
citing authors

#	ARTICLE	IF	CITATIONS
1	A Healable Supramolecular Polymer Blend Based on Aromatic π - π Stacking and Hydrogen-Bonding Interactions. <i>Journal of the American Chemical Society</i> , 2010, 132, 12051-12058.	13.7	779
2	Understanding the Mechanism of Gelation and Stimuli-Responsive Nature of a Class of Metallo-Supramolecular Gels. <i>Journal of the American Chemical Society</i> , 2006, 128, 11663-11672.	13.7	508
3	Preparation and characterization of graphite nanosheets from ultrasonic powdering technique. <i>Carbon</i> , 2004, 42, 753-759.	10.3	412
4	PMMA/graphite nanosheets composite and its conducting properties. <i>European Polymer Journal</i> , 2003, 39, 2329-2335.	5.4	325
5	Preparation of polystyrene/graphite nanosheet composite. <i>Polymer</i> , 2003, 44, 1781-1784.	3.8	297
6	Preparation of polymer/graphite conducting nanocomposite by intercalation polymerization. <i>Journal of Applied Polymer Science</i> , 2001, 82, 2506-2513.	2.6	243
7	Exfoliation of graphite flake and its nanocomposites. <i>Carbon</i> , 2003, 41, 619-621.	10.3	225
8	Mechanochromism and Mechanical Force-Triggered Cross-Linking from a Single Reactive Moiety Incorporated into Polymer Chains. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3040-3044.	13.8	202
9	Crystallization kinetics and melting behaviors of nylon 6/foiled graphite nanocomposites. <i>Polymer</i> , 2003, 44, 8119-8132.	3.8	180
10	Preparation of polystyrene-graphite conducting nanocomposites via intercalation polymerization. <i>Polymer International</i> , 2001, 50, 980-985.	3.1	176
11	Mechanoresponsive Healable Metallosupramolecular Polymers. <i>Macromolecules</i> , 2013, 46, 8649-8656.	4.8	156
12	Piezoresistive Materials from Directed Shear-Induced Assembly of Graphite Nanosheets in Polyethylene. <i>Advanced Functional Materials</i> , 2005, 15, 1358-1363.	14.9	138
13	Multi-responsive self-healing metallo-supramolecular gels based on κ -carrageenan ligand. <i>Journal of Materials Chemistry</i> , 2012, 22, 11515.	6.7	130
14	Spiropyran as a Mechanochromic Probe in Dual Cross-Linked Elastomers. <i>Macromolecules</i> , 2014, 47, 6783-6790.	4.8	119
15	Multi-modal mechanophores based on cinnamate dimers. <i>Nature Communications</i> , 2017, 8, 1147.	12.8	106
16	Mechanical Activation of Mechanophore Enhanced by Strong Hydrogen Bonding Interactions. <i>ACS Macro Letters</i> , 2014, 3, 141-145.	4.8	101
17	Control of Gel Morphology and Properties of a Class of Metallo-Supramolecular Polymers by Good/Poor Solvent Environments. <i>Macromolecules</i> , 2009, 42, 236-246.	4.8	98
18	Biomimetic Modular Polymer with Tough and Stress Sensing Properties. <i>Macromolecules</i> , 2013, 46, 6566-6574.	4.8	96

#	ARTICLE	IF	CITATIONS
19	Fabrication and characterization of nylon 6/foliated graphite electrically conducting nanocomposite. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2844-2856.	2.1	84
20	Dispersion of graphite nanosheets in a polymer matrix and the conducting property of the nanocomposites. <i>Polymer Engineering and Science</i> , 2001, 41, 2148-2154.	3.1	82
21	Mechanoresponsive PS-PnBA-PS Triblock Copolymers via Covalently Embedding Mechanophore. <i>ACS Macro Letters</i> , 2013, 2, 705-709.	4.8	81
22	Transport properties of electrically conducting nylon 6/foliated graphite nanocomposites. <i>Polymer</i> , 2005, 46, 6250-6257.	3.8	77
23	Structural origin of the thixotropic behavior of a class of metallosupramolecular gels. <i>Tetrahedron</i> , 2007, 63, 7419-7431.	1.9	63
24	Mechanochromism and optical remodeling of multi-network elastomers containing anthracene dimers. <i>Chemical Science</i> , 2019, 10, 8367-8373.	7.4	62
25	Self-healing metallo-supramolecular polymers from a ligand macromolecule synthesized via copper-catalyzed azide-alkyne cycloaddition and thiol-ene double click reactions. <i>Polymer Chemistry</i> , 2014, 5, 1945-1953.	3.9	61
26	HDPE/expanded graphite electrically conducting composite. <i>Composite Interfaces</i> , 2004, 11, 131-143.	2.3	60
27	One-step functionalization of graphene with cyclopentadienyl-capped macromolecules via Diels-Alder click chemistry. <i>Journal of Materials Chemistry</i> , 2012, 22, 7929.	6.7	55
28	Effect of monomer structure on the gelation of a class of metallo-supramolecular polymers. <i>Soft Matter</i> , 2009, 5, 4647.	2.7	47
29	A Polymer with Mechanochemically Active Hidden Length. <i>Journal of the American Chemical Society</i> , 2020, 142, 18687-18697.	13.7	46
30	A Mechanochemical Reaction Cascade for Controlling Load-Strengthening of a Mechanochromic Polymer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21980-21985.	13.8	43
31	Nonlinear conduction in nylon-6/foliated graphite nanocomposites above the percolation threshold. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 155-167.	2.1	42
32	Advances in the Surface Engineering of Upconversion Nanocrystals. <i>Science of Advanced Materials</i> , 2012, 4, 1-22.	0.7	36
33	Mechanochromism and Mechanical Force-Triggered Cross-Linking from a Single Reactive Moiety Incorporated into Polymer Chains. <i>Angewandte Chemie</i> , 2016, 128, 3092-3096.	2.0	35
34	Dual-responsive reversible photo/thermogelling polymers exhibiting high modulus change. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2837-2844.	2.3	35
35	A corannulene-based donor-acceptor polymer for organic field-effect transistors. <i>RSC Advances</i> , 2014, 4, 56749-56755.	3.6	34
36	Preparation and characterizations of nanoparticles from graphite via an electrochemically oxidizing method. <i>Synthetic Metals</i> , 2003, 139, 221-225.	3.9	30

#	ARTICLE	IF	CITATIONS
37	Dynamic Polymer Network System Mediated by Radically Exchangeable Covalent Bond and Carbonyl Complex. <i>ACS Macro Letters</i> , 2020, 9, 344-349.	4.8	30
38	Host-guest interaction between fluoro-substituted azobenzene derivative and cyclodextrins. <i>RSC Advances</i> , 2015, 5, 12007-12014.	3.6	27
39	Carbonyl-polymers with near infrared triggered, spatially resolved and rapid self-healing properties. <i>Polymer Chemistry</i> , 2019, 10, 386-394.	3.9	27
40	Using metal-ligand interactions to access biomimetic supramolecular polymers with adaptive and superb mechanical properties. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4809.	5.8	26
41	Compositional- and time-dependent dissipation, recovery and fracture toughness in hydrophobically reinforced hybrid hydrogels. <i>Polymer</i> , 2015, 80, 130-137.	3.8	20
42	Multiresponsive supramolecular gels constructed by orthogonal metal-ligand coordination and hydrogen bonding. <i>European Polymer Journal</i> , 2013, 49, 4062-4071.	5.4	19
43	Mechanochemistry of Topological Complex Polymer Systems. <i>Topics in Current Chemistry</i> , 2014, 369, 135-207.	4.0	19
44	A cyclic cinnamate dimer mechanophore for multimodal stress responsive and mechanically adaptable polymeric materials. <i>Polymer Chemistry</i> , 2019, 10, 905-910.	3.9	19
45	A simple and versatile approach to self-healing polymers and electrically conductive composites. <i>RSC Advances</i> , 2015, 5, 13261-13269.	3.6	17
46	Single-molecule observation of mechanical isomerization of spirothiopyran and subsequent Click addition. <i>Nano Research</i> , 2021, 14, 2654-2658.	10.4	14
47	Tough self-reporting elastomer with NIR induced shape memory effect. <i>Giant</i> , 2021, 8, 100069.	5.1	10
48	A Mechanochemical Reaction Cascade for Controlling Load-strengthening of a Mechanochromic Polymer. <i>Angewandte Chemie</i> , 2020, 132, 22164-22169.	2.0	9
49	Optically reconfigurable shape memory metallo-polymer mediated by a carbonyl complex and radically exchangeable covalent bond. <i>Polymer Chemistry</i> , 2022, 13, 1844-1851.	3.9	8
50	Dynamic covalent polymer networks with mechanical and mechanoresponsive properties reinforced by strong hydrogen bonding. <i>Polymer Chemistry</i> , 2022, 13, 2173-2177.	3.9	8
51	Cocrystallization of Imide-fused Corannulene Derivatives and C ₆₀ : Guest-induced Conformational Switching and 1:1 Segregated Packing. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2934-2938.	3.3	6
52	Unveiling how intramolecular stacking modes of covalently linked dimers dictate photoswitching properties. <i>Nature Communications</i> , 2019, 10, 5480.	12.8	6
53	Titelbild: Mechanochromism and Mechanical-force-triggered Cross-linking from a Single Reactive Moiety Incorporated into Polymer Chains (<i>Angew. Chem.</i> 9/2016). <i>Angewandte Chemie</i> , 2016, 128, 2999-2999.	2.0	2