

Ming-Chao Luo

List of Publications by Year in descending order

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455
citing authors

#	ARTICLE	IF	CITATIONS
1	New insight into naturally occurring network and entanglements induced strain behavior of vulcanized natural rubber. <i>Polymer</i> , 2022, 241, 124545.	3.8	6
2	Toward Mechanically Robust Crosslinked Elastomers through Phase Transfer Agent Tuning the Solubility of Zn ²⁺ in the Organic Phase. <i>Polymers</i> , 2022, 14, 1234.	4.5	1
3	The role of natural rubber endogenous proteins in promoting the formation of vulcanization networks. <i>E-Polymers</i> , 2022, 22, 445-453.	3.0	10
4	Natural rubber latex/MXene foam with robust and multifunctional properties. <i>E-Polymers</i> , 2021, 21, 179-185.	3.0	8
5	MXene Enabling the Long-Term Superior Thermo-Oxidative Resistance for Elastomers. <i>Polymers</i> , 2021, 13, 493.	4.5	3
6	Enabling Superior Thermo-Oxidative Resistance Elastomers Based on a Structure Recovery Strategy. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000762.	3.9	6
7	Based on transalkylation reaction the rearrangeable conventional sulfur network facile design for vulcanized diolefin elastomers. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51182.	2.6	7
8	Mechanically Robust Elastomers Enabled by a Facile Interfacial Interactions-Driven Sacrificial Network. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100509.	3.9	9
9	Influence of I-quebrachitol on the properties of centrifuged natural rubber. <i>E-Polymers</i> , 2021, 21, 420-427.	3.0	10
10	Effect of N, N'-m-phenylene bismaleimide on mechanical performance of waste rubber powder sintered by high-pressure high-temperature method. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , 2020, 23, 41-46.	1.1	4
11	Towards high performance anti-aging diolefin elastomers based on structure healing strategy. <i>Polymer</i> , 2020, 186, 122076.	3.8	8
12	Effect of protein on the thermogenesis performance of natural rubber matrix. <i>Scientific Reports</i> , 2020, 10, 16417.	3.3	9
13	The Role of Non-Rubber Components on Molecular Network of Natural Rubber during Accelerated Storage. <i>Polymers</i> , 2020, 12, 2880.	4.5	17
14	Mimicking the Mechanical Robustness of Natural Rubber Based on a Sacrificial Network Constructed by Phospholipids. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14468-14475.	8.0	42
15	Analysis of the thermogenesis mechanism of natural rubber under high speed strain. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1994-2006.	3.2	5
16	Toughening natural rubber by the innate sacrificial network. <i>Polymer</i> , 2020, 194, 122419.	3.8	17
17	Exploring the unique characteristics of natural rubber induced by coordination interaction between proteins and Zn ²⁺ . <i>Polymer</i> , 2020, 193, 122357.	3.8	22
18	Non-rubber components tuning mechanical properties of natural rubber from vulcanization kinetics. <i>Polymer</i> , 2019, 183, 121911.	3.8	53

#	ARTICLE	IF	CITATIONS
19	Synergistic effect of CB and GO/CNT hybrid fillers on the mechanical properties and fatigue behavior of NR composites. RSC Advances, 2018, 8, 10573-10581.	3.6	35
20	Detecting structural orientation in isoprene rubber/multiwall carbon nanotube nanocomposites at different scales during uniaxial deformation. Polymer International, 2018, 67, 258-268.	3.1	14
21	Towards a Supertough Thermoplastic Polyisoprene Elastomer Based on a Biomimic Strategy (Angew. Chem. 48/2018). Angewandte Chemie, 2018, 130, 16136-16136.	2.0	0
22	Towards a Supertough Thermoplastic Polyisoprene Elastomer Based on a Biomimic Strategy. Angewandte Chemie, 2018, 130, 16062-16066.	2.0	8
23	Towards a Supertough Thermoplastic Polyisoprene Elastomer Based on a Biomimic Strategy. Angewandte Chemie - International Edition, 2018, 57, 15836-15840.	13.8	45
24	Research on architecture and composition of natural network in natural rubber. Polymer, 2018, 154, 90-100.	3.8	44
25	Enhanced relaxation behavior below glass transition temperature in diene elastomer with heterogeneous physical network. Polymer, 2016, 91, 81-88.	3.8	19
26	Toughening diene elastomers by strong hydrogen bond interactions. Polymer, 2016, 106, 21-28.	3.8	76
27	Study of molecular weight and chain branching architectures of natural rubber. Journal of Applied Polymer Science, 2016, 133, .	2.6	18
28	Impact of hydrogen bonds dynamics on mechanical behavior of supramolecular elastomer. Polymer, 2016, 105, 221-226.	3.8	27
29	Role of epoxidation on segmental motion of polyisoprene as studied by broadband dielectric spectroscopy. Journal of Applied Polymer Science, 2016, 133, .	2.6	0
30	A rheological study on non-rubber component networks in natural rubber. RSC Advances, 2015, 5, 91742-91750.	3.6	32
31	Mechanical and dynamic mechanical properties of natural rubber blended with waste rubber powder modified by both microwave and sol-gel method. Journal of Applied Polymer Science, 2013, 129, 2313-2320.	2.6	22