Shuangquan Liao

List of Publications by Year
in descending order

32 papers	376 citations	933447 10 h-index	839539 18 g-index
32 all docs	32 docs citations	32 times ranked	183 citing authors

#	Article	IF	Citations
1	Mussel-inspired polydopamine functionalized silica as an effective antioxidant and reinforcer for elastomers. Composites Communications, 2022, 29, 101049.	6.3	4
2	New insight into naturally occurring network and entanglements induced strain behavior of vulcanized natural rubber. Polymer, 2022, 241, 124545.	3.8	6
3	Toward Mechanically Robust Crosslinked Elastomers through Phase Transfer Agent Tuning the Solubility of Zn2+ in the Organic Phase. Polymers, 2022, 14, 1234.	4.5	1
4	In-situ observation of spatial organization of natural rubber latex particles and exploring the relationship between particle size and mechanical properties of natural rubber. Industrial Crops and Products, 2022, 180, 114737.	5.2	10
5	The role of natural rubber endogenous proteins in promoting the formation of vulcanization networks. E-Polymers, 2022, 22, 445-453.	3.0	10
6	The role of non-rubber components acting as endogenous antioxidants on thermal-oxidative aging behavior of natural rubber. Polymer Testing, 2022, 111, 107614.	4.8	11
7	Xanthate-modified nanoTiO₂ as a novel vulcanization accelerator enhancing mechanical and antibacterial properties of natural rubber. Nanotechnology Reviews, 2021, 10, 478-487.	5.8	11
8	Natural rubber latex/MXene foam with robust and multifunctional properties. E-Polymers, 2021, 21, 179-185.	3.0	8
9	MXene Enabling the Long-Term Superior Thermo-Oxidative Resistance for Elastomers. Polymers, 2021, 13, 493.	4.5	3
10	Enabling Superior Thermoâ€"Oxidative Resistance Elastomers Based on a Structure Recovery Strategy. Macromolecular Rapid Communications, 2021, 42, e2000762.	3.9	6
11	Study on the ozone aging mechanism of Natural Rubber. Polymer Degradation and Stability, 2021, 186, 109514.	5.8	39
12	Structure and Temperature Induced Crystallization of Natural Rubber with Different Milling Times. Polymer Science - Series A, 2021, 63, 228-237.	1.0	1
13	Based on transalkylation reaction the rearrangeable conventional sulfur network facile design for vulcanized diolefin elastomers. Journal of Applied Polymer Science, 2021, 138, 51182.	2.6	7
14	Mechanically Robust Elastomers Enabled by a Facile Interfacial Interactionsâ€Driven Sacrificial Network. Macromolecular Rapid Communications, 2021, 42, e2100509.	3.9	9
15	Characterization of the trans-structure in the molecular chain structure of natural rubber. Journal of Molecular Structure, 2021, 1246, 131209.	3.6	3
16	Influence of l-quebrachitol on the properties of centrifuged natural rubber. E-Polymers, 2021, 21, 420-427.	3.0	10
17	Composition properties of rubber from parts of Taraxacum Kok-saghyz roots. Journal of Rubber Research (Kuala Lumpur, Malaysia), 2021, 24, 607-613.	1.1	1
18	Insight on natural rubberâ€™s relationship with coagulation methods and some of its properties during storage. Journal of Rubber Research (Kuala Lumpur, Malaysia), 2021, 24, 555-562.	1.1	6

#	Article	IF	Citations
19	Microstructure and Lamellae Phase of Raw Natural Rubber via Spontaneous Coagulation Assisted by Sugars. Polymers, 2021, 13, 4306.	4.5	2
20	Effect of N, Nâ€²-m-phenylene bismaleimide on mechanical performance of waste rubber powder sintered by high-pressure high-temperature method. Journal of Rubber Research (Kuala Lumpur, Malaysia), 2020, 23, 41-46.	1.1	4
21	Towards high performance anti-aging diolefin elastomers based on structure healing strategy. Polymer, 2020, 186, 122076.	3.8	8
22	Effect of protein on the thermogenesis performance of natural rubber matrix. Scientific Reports, 2020, 10, 16417.	3.3	9
23	Influence of non-rubber components on film formation behavior of natural rubber latex. Colloid and Polymer Science, 2020, 298, 1263-1271.	2.1	17
24	The Role of Non-Rubber Components on Molecular Network of Natural Rubber during Accelerated Storage. Polymers, 2020, 12, 2880.	4.5	17
25	Mimicking the Mechanical Robustness of Natural Rubber Based on a Sacrificial Network Constructed by Phospholipids. ACS Applied Materials & Interfaces, 2020, 12, 14468-14475.	8.0	42
26	Role of endogenous glucose on natural rubber molecular chains and natural network architecture based on biological action and chelation. Polymer, 2020, 202, 122752.	3.8	8
27	Analysis of the thermogenesis mechanism of natural rubber under high speed strain. Polymers for Advanced Technologies, 2020, 31, 1994-2006.	3.2	5
28	Toughening natural rubber by the innate sacrificial network. Polymer, 2020, 194, 122419.	3.8	17
29	Exploring the unique characteristics of natural rubber induced by coordination interaction between proteins and Zn2+. Polymer, 2020, 193, 122357.	3.8	22
30	Non-rubber components tuning mechanical properties of natural rubber from vulcanization kinetics. Polymer, 2019, 183, 121911.	3.8	53
31	Quantitative Analysis of Abnormal Groups on Molecular Chain of Natural Rubber. Polymer Science - Series B, 2019, 61, 856-864.	0.8	4
32	Mechanical and dynamic mechanical properties of natural rubber blended with waste rubber powder modified by both microwave and solâ€“gel method. Journal of Applied Polymer Science, 2013, 129, 2313-2320.	2.6	22