

Chao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

4,312
citations

567144

15
h-index

940416

16
g-index

16
all docs

16
docs citations

16
times ranked

6303
citing authors

#	ARTICLE	IF	CITATIONS
1	An electrically and mechanically self-healing composite with pressure- and flexion-sensitive properties for electronic skin applications. <i>Nature Nanotechnology</i> , 2012, 7, 825-832.	15.6	1,270
2	A highly stretchable autonomous self-healing elastomer. <i>Nature Chemistry</i> , 2016, 8, 618-624.	6.6	1,133
3	A Transparent, Self-Healing, Highly Stretchable Ionic Conductor. <i>Advanced Materials</i> , 2017, 29, 1605099.	11.1	447
4	Self-healing electronic skins for aquatic environments. <i>Nature Electronics</i> , 2019, 2, 75-82.	13.1	424
5	High-Performance Lithium Metal Negative Electrode with a Soft and Flowable Polymer Coating. <i>ACS Energy Letters</i> , 2016, 1, 1247-1255.	8.8	281
6	A Highly Stretchy, Transparent Elastomer with the Capability to Automatically Self-Heal Underwater. <i>Advanced Materials</i> , 2018, 30, e1804602.	11.1	167
7	Tough Gel Electrolyte Using Double Polymer Network Design for the Safe, Stable Cycling of Lithium Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1361-1365.	7.2	131
8	<i>In Situ</i> Formation of Stable Interfacial Coating for High Performance Lithium Metal Anodes. <i>Chemistry of Materials</i> , 2017, 29, 3572-3579.	3.2	105
9	Highly Transparent, Underwater Self-Healing, and Ionic Conductive Elastomer Based on Multivalent Ion-Dipole Interactions. <i>Chemistry of Materials</i> , 2020, 32, 6310-6317.	3.2	93
10	Tough, stable and self-healing luminescent perovskite-polymer matrix applicable to all harsh aquatic environments. <i>Nature Communications</i> , 2022, 13, 1338.	5.8	73
11	Significance of the double-layer capacitor effect in polar rubbery dielectrics and exceptionally stable low-voltage high transconductance organic transistors. <i>Scientific Reports</i> , 2015, 5, 17849.	1.6	66
12	A Stiff yet Rapidly Self-Healable Elastomer in Harsh Aqueous Environments. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	41
13	Superstretchable, yet stiff, fatigue-resistant ligament-like elastomers. <i>Nature Communications</i> , 2022, 13, 2279.	5.8	35
14	Synthetic poly-dioxolane as universal solid electrolyte interphase for stable lithium metal anodes. <i>Journal of Energy Chemistry</i> , 2021, 62, 172-178.	7.1	26
15	Tough Gel Electrolyte Using Double Polymer Network Design for the Safe, Stable Cycling of Lithium Metal Anode. <i>Angewandte Chemie</i> , 2018, 130, 1375-1379.	1.6	17
16	A tough, elastic ion gel with adaptive interface for high performance and safe lithium metal anodes. <i>Chemical Engineering Journal</i> , 2022, 433, 133189.	6.6	3