

Xu-Ming Xie

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66

papers

2,546

citations

29

h-index

49

g-index

68

ext. papers

2,807

ext. citations

6.2

avg, IF

5.35

L-index

#	Paper	IF	Citations
66	Self-healable, super tough graphene oxide-poly(acrylic acid) nanocomposite hydrogels facilitated by dual cross-linking effects through dynamic ionic interactions. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 4001-4008	7.3	203
65	Smart Hybridization of TiO ₂ Nanorods and Fe ₃ O ₄ Nanoparticles with Pristine Graphene Nanosheets: Hierarchically Nanoengineered Ternary Heterostructures for High-Rate Lithium Storage. <i>Advanced Functional Materials</i> , 2015 , 25, 3341-3350	15.6	164
64	Flexible and robust MoS ₂ -graphene hybrid paper cross-linked by a polymer ligand: a high-performance anode material for thin film lithium-ion batteries. <i>Chemical Communications</i> , 2013 , 49, 10305-7	5.8	120
63	Self-healable, tough and highly stretchable ionic nanocomposite physical hydrogels. <i>Soft Matter</i> , 2015 , 11, 4235-41	3.6	119
62	Studies on the properties and formation mechanism of flexible nanocomposite hydrogels from cellulose nanocrystals and poly(acrylic acid). <i>Journal of Materials Chemistry</i> , 2012 , 22, 22467		119
61	Highly stretchable and super tough nanocomposite physical hydrogels facilitated by the coupling of intermolecular hydrogen bonds and analogous chemical crosslinking of nanoparticles. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 1187-1192	7.3	96
60	Molecular level distribution of black phosphorus quantum dots on nitrogen-doped graphene nanosheets for superior lithium storage. <i>Nano Energy</i> , 2016 , 30, 347-354	17.1	94
59	Ultrathin MXene Nanosheets Decorated with TiO Quantum Dots as an Efficient Sulfur Host toward Fast and Stable Li-S Batteries. <i>Small</i> , 2018 , 14, e1802443	11	89
58	Surface Stress Effects on the Bending Direction and Twisting Chirality of Lamellar Crystals of Chiral Polymer. <i>Macromolecules</i> , 2010 , 43, 5762-5770	5.5	80
57	Dually cross-linked single network poly(acrylic acid) hydrogels with superior mechanical properties and water absorbency. <i>Soft Matter</i> , 2016 , 12, 5420-8	3.6	78
56	High-concentration organic solutions of poly(styrene-co-butadiene-co-styrene)-modified graphene sheets exfoliated from graphite. <i>Carbon</i> , 2011 , 49, 3529-3537	10.4	77
55	Delicate ternary heterostructures achieved by hierarchical co-assembly of Ag and Fe ₃ O ₄ nanoparticles on MoS ₂ nanosheets: morphological and compositional synergy in reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2726-2733	13	72
54	The production of flexible and transparent conductive films of carbon nanotube/graphene networks coordinated by divalent metal (Cu, Ca or Mg) ions. <i>Carbon</i> , 2011 , 49, 3371-3375	10.4	71
53	Constructing Novel Si@SnO ₂ Core-Shell Heterostructures by Facile Self-Assembly of SnO ₂ Nanowires on Silicon Hollow Nanospheres for Large, Reversible Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7092-100	9.5	63
52	Hierarchical assembly of SnO ₂ nanowires on MnO ₂ nanosheets: a novel 1/2D hybrid architecture for high-capacity, reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6477-6483	13	58
51	Dual cross-linked networks hydrogels with unique swelling behavior and high mechanical strength: based on silica nanoparticle and hydrophobic association. <i>Journal of Colloid and Interface Science</i> , 2012 , 381, 107-15	9.3	55
50	Coordination-driven hierarchical assembly of silver nanoparticles on MoS ₂ nanosheets for improved lithium storage. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1519-24	4.5	53

49	In situ synthesis of poly(acrylic acid) physical hydrogels from silica nanoparticles. <i>Soft Matter</i> , 2012 , 8, 1058-1063	3.6	51
48	Synergistic effect of Cu ²⁺ -coordinated carbon nanotube/graphene network on the electrical and mechanical properties of polymer nanocomposites. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18723		49
47	Study of multi-monomer melt-grafting onto polypropylene in an extruder. <i>Polymer International</i> , 2000 , 49, 1677-1683	3.3	43
46	h-BN Nanosheets as 2D Substrates to Load 0D Fe ₃ O ₄ Nanoparticles: A Hybrid Anode Material for Lithium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 828-33	4.5	42
45	Aluminothermic reduction enabled synthesis of silicon hollow microspheres from commercialized silica nanoparticles for superior lithium storage. <i>Chemical Communications</i> , 2016 , 52, 8401-4	5.8	39
44	Elaborately Designed Hierarchical Heterostructures Consisting of Carbon-Coated TiO ₂ (B) Nanosheets Decorated with Fe ₃ O ₄ Nanoparticles for Remarkable Synergy in High-Rate Lithium Storage. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500239	4.6	39
43	Robust and self-healable nanocomposite physical hydrogel facilitated by the synergy of ternary crosslinking points in a single network. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6221-6227	7.3	38
42	Predictive supracolloidal helices from patchy particles. <i>Scientific Reports</i> , 2014 , 4, 7021	4.9	37
41	Facile and Green Production of Impurity-Free Aqueous Solutions of WS Nanosheets by Direct Exfoliation in Water. <i>Small</i> , 2016 , 12, 6703-6713	11	34
40	A universal strategy for the hierarchical assembly of functional 0/2D nanohybrids. <i>Chemical Communications</i> , 2013 , 49, 1642-4	5.8	32
39	Tuning the solubility of boron nitride nanosheets in organic solvents by using block copolymer as a "Janus" modifier. <i>Chemical Communications</i> , 2013 , 49, 388-90	5.8	32
38	Polystyrene-grafted graphene with improved solubility in organic solvents and its compatibility with polymers. <i>Materials Chemistry and Physics</i> , 2011 , 130, 794-799	4.4	29
37	A universal strategy for the in situ synthesis of TiO ₂ (B) nanosheets on pristine carbon nanomaterials for high-rate lithium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7070-7079	13	26
36	Frustrated Crystallization in the Coupled Viscoelastic Phase Separation. <i>Macromolecules</i> , 2012 , 45, 8336-8346	3.5	26
35	Dispersion and noncovalent modification of multiwalled carbon nanotubes by various polystyrene-based polymers. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 3525-3532	2.9	26
34	Tough superabsorbent poly(acrylic acid) nanocomposite physical hydrogels fabricated by a dually cross-linked single network strategy. <i>Chinese Chemical Letters</i> , 2016 , 27, 312-316	8.1	25
33	Homogeneous and Real Super Tough Multi-Bond Network Hydrogels Created through a Controllable Metal Ion Permeation Strategy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42856-42864	8.5	25
32	Scalable production of transition metal disulphide/graphite nanoflake composites for high-performance lithium storage. <i>RSC Advances</i> , 2014 , 4, 41543-41550	3.7	25

31	Harnessing Dynamic Covalent Bonds in Patchy Nanoparticles: Creating Shape-Shifting Building Blocks for Rational and Responsive Self-Assembly. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1221-6	6.4	25
30	Processable and robust MoS ₂ paper chemically cross-linked with polymeric ligands by the coordination of divalent metal ions. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 817-23	4.5	22
29	Synthesis of hyperbranched aromatic polyamide-imide and its grafting onto multiwalled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 2413-2421	2.9	22
28	Phase transition temperature controllable poly(acrylamide-co-acrylic acid) nanocomposite physical hydrogels with high strength. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 1261-1269	3.5	20
27	Multi-bond network hydrogels with robust mechanical and self-healable properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 1253-1267	3.5	19
26	Water absorbency of poly(sodium acrylate) superabsorbents crosslinked with modified poly(ethylene glycol)s. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 1851-1856	2.9	17
25	Improved Mechanical Properties of Graphene Oxide/Poly(ethylene oxide) Nanocomposites by Dynamic Interfacial Interaction of Coordination. <i>Australian Journal of Chemistry</i> , 2014 , 67, 121	1.2	15
24	Compatibilization and toughening of immiscible ternary blends of polyamide 6, polypropylene (or a propylene-ethylene copolymer), and polystyrene. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 1652-1658	2.9	15
23	Toughening mechanism of nanocomposite physical hydrogels fabricated by a single gel network with dual crosslinking - The roles of the dual crosslinking points. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 25-35	3.5	14
22	Influences of component ratio of minor phases and charge sequence on the morphology and mechanical properties of PP/PS/PA6 ternary blends. <i>Polymer Bulletin</i> , 2011 , 66, 841-852	2.4	13
21	Styrene-assisted melt free-radical grafting of pentaerythritol triacrylate onto polypropylene and its crystallization behavior. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 1737-1743	2.9	13
20	Correlation of Morphology Evolution with Superior Mechanical Properties in PA6/PS/PP/SEBS Blends Compatibilized by Multi-phase Compatibilizers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018 , 36, 848-858	3.5	11
19	Investigation of hydrolysis in poly(ethylene terephthalate) by FTIR-ATR. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 230-235	3.5	10
18	How can multi-bond network hydrogels dissipate energy more effectively: an investigation on the relationship between network structure and properties. <i>Soft Matter</i> , 2020 , 16, 4407-4413	3.6	10
17	High-concentration aliphatic and aromatic dispersions of single- and few-layer graphene noncovalently modified by block copolymer crystallization. <i>Carbon</i> , 2012 , 50, 4760-4764	10.4	9
16	Carboxyl Terminated Polymer Chain Extension Using a Bisoxazoline Coupling Agent: Monte Carlo Simulation. <i>Macromolecular Theory and Simulations</i> , 2005 , 14, 586-595	1.5	9
15	Direct Exfoliation of High-Quality, Atomically Thin MoSe ₂ Layers in Water. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700107	5.9	9
14	Investigation of crystallization of PVCH-PE-PVCH triblock copolymer in supercritical carbon dioxide. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 2584-2589	2.9	8

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| 13 | Role of compatibilizer in multicomponent polymer mixtures under shear flow. <i>Soft Matter</i> , 2013 , 9, 255-260 | 3.6 | 7 |
| 12 | Revealing formation process of microcapsules during in situ polymerization via confocal laser scanning fluorescence microscopy. <i>Colloid and Polymer Science</i> , 2011 , 289, 1719-1728 | 2.4 | 6 |
| 11 | The Morphology and Dynamics of Substrate Effects on Spinodal Decomposition in Binary Mixtures with Short-Range Potential. <i>Macromolecular Theory and Simulations</i> , 2006 , 15, 226-237 | 1.5 | 6 |
| 10 | Coordination-Driven Hierarchical Assembly of Hybrid Nanostructures Based on 2D Materials. <i>Small</i> , 2020 , 16, e1902779 | 11 | 6 |
| 9 | Interface-Induced Coarsening Process in Polymer Blends. <i>Journal of Colloid and Interface Science</i> , 2001 , 234, 24-27 | 9.3 | 5 |
| 8 | Monte Carlo simulation of diffusion effects on chain-extension reactions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 2902-2911 | 2.6 | 4 |
| 7 | Structural reorganization and crack-healing properties of hydrogels based on dynamic diselenide linkages. <i>Science and Technology of Advanced Materials</i> , 2020 , 21, 450-460 | 7.1 | 4 |
| 6 | Super Tough and Intelligent Multibond Network Physical Hydrogels Facilitated by TiCT MXene Nanosheets.. <i>ACS Nano</i> , 2021 , | 16.7 | 4 |
| 5 | Super-tough and rapidly self-recoverable multi-bond network hydrogels facilitated by 2-ureido-4[1H]-pyrimidone dimers. <i>Chinese Chemical Letters</i> , 2021 , 32, 521-524 | 8.1 | 3 |
| 4 | High-performance multi-functional graphene/hexagonal boron nitride/poly(ethylene oxide) nanocomposites through enhanced interfacial interaction by coordination.. <i>RSC Advances</i> , 2018 , 8, 36761-36768 | 3.7 | 3 |
| 3 | Li ⁺ Batteries: Ultrathin MXene Nanosheets Decorated with TiO ₂ Quantum Dots as an Efficient Sulfur Host toward Fast and Stable Li ⁺ Batteries (Small 41/2018). <i>Small</i> , 2018 , 14, 1870190 | 11 | 3 |
| 2 | Preparation of polypropylene/acrylonitrile-butylene copolymer alloys by one-step reactive blending. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 1284-1290 | 2.9 | 1 |
| 1 | Thermoreversible Gelation Mechanism of Polystyrene/CS ₂ Solutions. <i>Polymer Journal</i> , 1998 , 30, 435-438 | 2.7 | 1 |