

Liang Fang

List of Publications by Year in descending order

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papers

876
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28
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51
all docs

51
docs citations

51
times ranked

923
citing authors

#	ARTICLE	IF	CITATIONS
1	Light activated shape memory polymers and composites: A review. <i>European Polymer Journal</i> , 2020, 136, 109912.	5.4	89
2	Shape-memory polymer composites selectively triggered by near-infrared light of two certain wavelengths and their applications at macro-/microscale. <i>Composites Science and Technology</i> , 2017, 138, 106-116.	7.8	67
3	Near-Infrared Light and Solar Light Activated Self-Healing Epoxy Coating having Enhanced Properties Using MXene Flakes as Multifunctional Fillers. <i>Polymers</i> , 2018, 10, 474.	4.5	59
4	CdS/Pt photocatalytic activity boosted by high-energetic photons based on efficient triplet-triplet annihilation upconversion. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 100-107.	20.2	53
5	Highly efficient photocatalytic hydrogen generation of g-C ₃ N ₄ -CdS sheets based on plasmon-enhanced triplet-triplet annihilation upconversion. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117762.	20.2	50
6	Self-healing epoxy coatings curing with varied ratios of diamine and monoamine triggered via near-infrared light. <i>Progress in Organic Coatings</i> , 2016, 101, 543-552.	3.9	47
7	Self-Healing Epoxy Coatings via Focused Sunlight Based on Photothermal Effect. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700059.	3.6	34
8	Preparation and assembly of five photoresponsive polymers to achieve complex light-induced shape deformations. <i>Materials and Design</i> , 2018, 144, 129-139.	7.0	32
9	Thermally-Induced Self-Healing Behaviors and Properties of Four Epoxy Coatings with Different Network Architectures. <i>Polymers</i> , 2017, 9, 333.	4.5	29
10	Crystallinity and β Phase Fraction of PVDF in Biaxially Stretched PVDF/PMMA Films. <i>Polymers</i> , 2021, 13, 998.	4.5	27
11	Near-Infrared Light Triggered Soft Actuators in Aqueous Media Prepared from Shape-Memory Polymer Composites. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1111-1120.	3.6	26
12	Self-healing polymer coatings of polyurea-urethane/epoxy blends with reversible and dynamic bonds. <i>Progress in Organic Coatings</i> , 2020, 147, 105876.	3.9	25
13	Light-induced rare earth organic complex/shape-memory polymer composites with high strength and luminescence based on hydrogen bonding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 125, 105525.	7.6	24
14	Silane modified epoxy coatings with low surface tension to achieve self-healing of wide damages. <i>Progress in Organic Coatings</i> , 2019, 133, 357-367.	3.9	24
15	NIR-Responsive Single-Band Upconversion Emission through Energy Migration in Core-Shell Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	22
16	Efficient Photocatalysis of Composite Films Based on Plasmon-Enhanced Triplet-Triplet Annihilation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 717-726.	8.0	19
17	Wide-temperature range damping polyurea-urethane blends with self-healing capability. <i>Construction and Building Materials</i> , 2020, 262, 119991.	7.2	19
18	Two-Level Shape Changes of Polymeric Microcuboids Prepared from Crystallizable Copolymer Networks. <i>Macromolecules</i> , 2017, 50, 2518-2527.	4.8	18

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19	Build a bridge from polymeric structure design to engineering application of self-healing coatings: A review. <i>Progress in Organic Coatings</i> , 2022, 167, 106790.	3.9	15
20	Remote actuation of light activated shape memory polymers via D-shaped optical fibres. <i>Smart Materials and Structures</i> , 2020, 29, 047001.	3.5	14
21	Luminescent and hydrophobic textile coatings with recyclability and self-healing capability against both chemical and physical damage. <i>Cellulose</i> , 2020, 27, 561-573.	4.9	13
22	Solar Light Responsive Polymer Composites with Three Shape-Memory Effects. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 267-273.	3.6	12
23	Implementing and Quantifying the Shape-Memory Effect of Single Polymeric Micro/Nanowires with an Atomic Force Microscope. <i>ChemPhysChem</i> , 2018, 19, 2078-2084.	2.1	12
24	Near-Infrared Light-Induced Sequential Shape Recovery and Separation of Assembled Temperature Memory Polymer Microparticles. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000043.	3.9	12
25	Supramolecular hydrogel hybrids having high mechanical property, photoluminescence and light-induced shape deformation capability: Design, preparation and characterization. <i>Materials and Design</i> , 2018, 160, 194-202.	7.0	11
26	Shape-Memory Capability of Copolyetheresterurethane Microparticles Prepared via Electrospraying. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 522-530.	3.6	10
27	Near-Infrared Upconversion Transparent Inorganic Nanofilm: Confined-Space Directed Oriented Crystal Growth and Distinctive Ultraviolet Emission. <i>Crystal Growth and Design</i> , 2016, 16, 5787-5797.	3.0	10
28	Facile Repair of Anti-Corrosion Polymeric Composite Coatings Based on Light Triggered Self-Healing. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100106.	3.6	10
29	Chameleon inspired layer-by-layer assembly of thermochromic microcapsules to achieve controllable multiple-color change. <i>Smart Materials and Structures</i> , 2020, 29, 04LT02.	3.5	10
30	Enhanced triplet-triplet annihilation upconversion by photonic crystals and Au plasma resonance for efficient photocatalysis. <i>Catalysis Science and Technology</i> , 2020, 10, 8325-8331.	4.1	9
31	Effects of Blended Reversible Epoxy Domains on Structures and Properties of Self-Healing/Shape-Memory Thermoplastic Polyurethane. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900578.	3.6	8
32	Functionalization of PVDF-based copolymer via photo-induced p-anisaldehyde catalyzed atom transfer radical polymerization. <i>Reactive and Functional Polymers</i> , 2020, 150, 104541.	4.1	8
33	Improved upconversion efficiency and thermal stability of NaYF ₄ @SiO ₂ photonic crystal film. <i>Journal of Alloys and Compounds</i> , 2018, 741, 337-347.	5.5	7
34	Enhancement of fluorescent emission in photonic crystal film and application in photocatalysis. <i>Nanotechnology</i> , 2018, 29, 045601.	2.6	6
35	Temperature-induced evolution of microstructures on poly[ethylene-co-(vinyl acetate)] substrates switches their underwater wettability. <i>Materials and Design</i> , 2019, 163, 107530.	7.0	6
36	Surface Structures, Particles, and Fibers of Shape-Memory Polymers at Micro-/Nanoscale. <i>Advances in Polymer Technology</i> , 2020, 2020, 1-16.	1.7	6

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37	Photoresponsive hydrogels with high wavelength selectivity for near-infrared light. <i>Materials Letters</i> , 2018, 219, 163-165.	2.6	5
38	Manufacture of luminescent shape-memory polymer composites using rare earth organic complex and commercial carboxylated nitrile rubber. <i>Polymer Composites</i> , 2020, 41, 3732-3747.	4.6	5
39	Effects of Blended Reversible Epoxy Domains on Structures and Properties of Self-Healing/Shape-Memory Thermoplastic Polyurethane. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2070003.	3.6	5
40	Synthesis and Study of Shape-Memory Polymers Selectively Induced by Near-Infrared Lights via In Situ Copolymerization. <i>Polymers</i> , 2017, 9, 181.	4.5	4
41	Directed flow and assembly of magnetic polymer nanocomposites switchable between steady and non-steady status driven by magnetic field. <i>Smart Materials and Structures</i> , 2020, 29, 035030.	3.5	2
42	Dual-layered up-conversion films with tunable multi-peaks spectrum for efficient photocatalytic degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 417, 113360.	3.9	2
43	Uniform Contraction and High Force Output of Photoresponsive Shape-Memory Polymer Actuators with Large Thickness Based on Vertical Distribution of Rare Earth Oxides. <i>Macromolecular Materials and Engineering</i> , 0, , 2100683.	3.6	2
44	Triplet-Triplet Annihilation Up-Conversion Luminescent Assisted Free-Radical Reactions of Polymers Using Visible Light. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	2.2	2
45	Crystal growth and fluorescence of downconversion films in confined space with ingoing channels. <i>Optical Materials</i> , 2022, 128, 112391.	3.6	2
46	Uniform upconversion film with large area prepared by improved confined-space synthesis method. <i>Optical Materials</i> , 2020, 99, 109509.	3.6	1
47	Down-Conversion Polymer Composite Coatings with Multippeak Absorption and Emission. <i>Coatings</i> , 2021, 11, 282.	2.6	1
48	Effects of Ligands in Rare Earth Complex on Properties, Functions, and Intelligent Behaviors of Polyurethane Composites. <i>Polymers</i> , 2022, 14, 2098.	4.5	1
49	Precise prediction of photothermally induced irreversible bending deformation based on non-uniform thermal expansion of layer-structure films. <i>Smart Materials and Structures</i> , 2022, 31, 095041.	3.5	1
50	Enhancement of fluorescent properties of photonic crystals containing triplet-triplet annihilation upconversion materials via adjusting incident angles. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1680-1689.	2.2	0
51	Large-scale photonic crystal films prepared via coating-assisted leveling and gravity-induced assembly. <i>Optical Materials</i> , 2022, 131, 112665.	3.6	0