

Zhanhua Wang

List of Publications by Year in descending order

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papers

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citations

87888

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all docs

81
docs citations

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times ranked

4906
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Laser Sintering of Polydimethylsiloxane Composites. 3D Printing and Additive Manufacturing, 2023, 10, 684-696.	2.9	7
2	Ultralight NiCo@rGO aerogel microspheres with magnetic response for oil/water separation. Chemical Engineering Journal, 2022, 430, 132894.	12.7	25
3	Nitrogen-Doped Graphene Aerogel Microspheres Used as Electrocatalyst Supports for Methanol Oxidation. Industrial & Engineering Chemistry Research, 2022, 61, 1398-1407.	3.7	13
4	Progress in Utilizing Dynamic Bonds to Fabricate Structurally Adaptive Self-Healing, Shape Memory, and Liquid Crystal Polymers. Macromolecular Rapid Communications, 2022, 43, e2100768.	3.9	18
5	Recent Advances of Self-Healing Polymer Materials via Supramolecular Forces for Biomedical Applications. Biomacromolecules, 2022, 23, 641-660.	5.4	32
6	The Effect of the 3D Nanoarchitecture and Ni-Promotion on the Hydrogen Evolution Reaction in MoS ₂ /Reduced GO Aerogel Hybrid Microspheres Produced by a Simple One-Pot Electro spraying Procedure. Small, 2022, 18, e2105694.	10.0	5
7	Robust and recyclable graphene/chitosan composite aerogel microspheres for adsorption of oil pollutants from water. Carbohydrate Polymers, 2022, 290, 119416.	10.2	20
8	High performance dynamic covalent crosslinked polyacylsemicarbazide composites with self-healing and recycling capabilities. Journal of Materials Chemistry A, 2021, 9, 4055-4065.	10.3	53
9	Role of Diisocyanate Structure on Self-Healing and Anticorrosion Properties of Waterborne Polyurethane Coatings. Advanced Materials Interfaces, 2021, 8, 2100117.	3.7	31
10	Hybrid MXene/reduced graphene oxide aerogel microspheres for hydrogen evolution reaction. Ionics, 2021, 27, 3099-3108.	2.4	13
11	Covalent adaptable networks of polydimethylsiloxane elastomer for selective laser sintering 3D printing. Chemical Engineering Journal, 2021, 412, 128675.	12.7	50
12	NIR light-triggered self-healing waterborne polyurethane coatings with polydopamine-coated reduced graphene oxide nanoparticles. Progress in Organic Coatings, 2021, 161, 106499.	3.9	13
13	A novel self-catalytic cooperative multiple dynamic moiety: towards rigid and tough but more healable polymer networks. Journal of Materials Chemistry A, 2021, 9, 16759-16768.	10.3	27
14	Hierarchically reversible crosslinking polymeric hydrogels with highly efficient self-healing, robust mechanical properties, and double-driven shape memory behavior. Journal of Materials Chemistry A, 2021, 9, 5730-5739.	10.3	65
15	NIR driven fast macro-damage repair and shear-free reprocessing of thermoset elastomers via dynamic covalent urea bonds. Journal of Materials Chemistry A, 2020, 8, 25047-25052.	10.3	25
16	Hybrid Transition Metal Dichalcogenide/Graphene Microspheres for Hydrogen Evolution Reaction. Nanomaterials, 2020, 10, 2376.	4.1	10
17	Acylsemicarbazide Moieties with Dynamic Reversibility and Multiple Hydrogen Bonding for Transparent, High Modulus, and Malleable Polymers. Macromolecules, 2020, 53, 7914-7924.	4.8	62
18	High intensity focused ultrasound responsive release behavior of metallo-supramolecular block PPG-PEG copolymer micelles. Ultrasonics Sonochemistry, 2020, 68, 105217.	8.2	10

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19	Dynamic healable polyurethane for selective laser sintering. <i>Additive Manufacturing</i> , 2020, 33, 101176.	3.0	32
20	Polyurethane-modified graphene oxide composite bilayer wound dressing with long-lasting antibacterial effect. <i>Materials Science and Engineering C</i> , 2020, 111, 110833.	7.3	41
21	Powder quality and electrical conductivity of selective laser sintered polymer composite components. , 2020, , 149-185.		7
22	Novel Poly(vinyl alcohol)/Chitosan/Modified Graphene Oxide Biocomposite for Wound Dressing Application. <i>Macromolecular Bioscience</i> , 2020, 20, e1900385.	4.1	65
23	Constructing 3D Graphene Network in Rubber Nanocomposite via Liquid-Phase Redispersion and Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9682-9692.	8.0	29
24	Developments and Challenges in Self-Healing Antifouling Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1908098.	14.9	110
25	4D Printing of a Liquid Crystal Elastomer with a Controllable Orientation Gradient. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44774-44782.	8.0	116
26	Atom Transfer Radical Polymerization Enabled by Sonochemically Labile Cu-carbonate Species. <i>ACS Macro Letters</i> , 2019, 8, 161-165.	4.8	52
27	Ultrasound Reversible Response Nanocarrier Based on Sodium Alginate Modified Mesoporous Silica Nanoparticles. <i>Frontiers in Chemistry</i> , 2019, 7, 59.	3.6	28
28	Dynamic covalent urea bonds and their potential for development of self-healing polymer materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15933-15943.	10.3	101
29	Preparation, characterization and properties of intrinsic self-healing elastomers. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4876-4926.	5.8	141
30	Simultaneous realization of conductive segregation network microstructure and minimal surface porous macrostructure by SLS 3D printing. <i>Materials and Design</i> , 2019, 178, 107874.	7.0	68
31	The Technological Design of Geometrically Complex Ti-6Al-4V Parts by Metal Injection Molding. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1339.	2.5	9
32	Pt Nanoparticle-Loaded Graphene Aerogel Microspheres with Excellent Methanol Electro-Oxidation Performance. <i>Langmuir</i> , 2019, 35, 3694-3700.	3.5	30
33	A novel method to prepare homogeneous biocompatible graphene-based PDMS composites with enhanced mechanical, thermal and antibacterial properties. <i>Polymer Composites</i> , 2019, 40, E1397.	4.6	16
34	Polydopamine Particle-Filled Shape-Memory Polyurethane Composites with Fast Near-Infrared Light Responsibility. <i>ChemPhysChem</i> , 2018, 19, 2052-2057.	2.1	29
35	Ultrasonication-Induced Aqueous Atom Transfer Radical Polymerization. <i>ACS Macro Letters</i> , 2018, 7, 275-280.	4.8	125
36	A Facile Strategy for Self-Healing Polyurethanes Containing Multiple Metal-Ligand Bonds. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700678.	3.9	92

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37	Diels-Alder dynamic crosslinked polyurethane/polydopamine composites with NIR triggered self-healing function. <i>Polymer Chemistry</i> , 2018, 9, 2166-2172.	3.9	111
38	Polydimethylsiloxane incorporated with reduced graphene oxide (rGO) sheets for wound dressing application: Preparation and characterization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 166, 61-71.	5.0	50
39	Realizing Crack Diagnosing and Self-Healing by Electricity with a Dynamic Crosslinked Flexible Polyurethane Composite. <i>Advanced Science</i> , 2018, 5, 1800101.	11.2	109
40	High-intensity focused ultrasound selective annealing induced patterned and gradient crystallization behavior of polymer. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 442-452.	8.2	3
41	Dual water-healable zwitterionic polymer coatings for anti-biofouling surfaces. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6930-6935.	5.8	40
42	Ultrathin stimuli-responsive polymer film-based optical sensor for fast and visual detection of hazardous organic solvents. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10861-10869.	5.5	11
43	A facile dynamic crosslinked healable poly(oxime-urethane) elastomer with high elastic recovery and recyclability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18154-18164.	10.3	102
44	pH and Ultrasound Dual-Responsive Polydopamine-Coated Mesoporous Silica Nanoparticles for Controlled Drug Delivery. <i>Langmuir</i> , 2018, 34, 9974-9981.	3.5	95
45	HIFU induced particles redistribution in polymer matrix via synchrotron radiation X-ray microtomography. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 97-105.	8.2	5
46	Temporal Control in Mechanically Controlled Atom Transfer Radical Polymerization Using Low ppm of Cu Catalyst. <i>ACS Macro Letters</i> , 2017, 6, 546-549.	4.8	135
47	Bioinspired ultrasound-responsive fluorescent metal-ligand cross-linked polymer assemblies. <i>Polymer Chemistry</i> , 2017, 8, 2581-2585.	3.9	12
48	Enhancing Mechanically Induced ATRP by Promoting Interfacial Electron Transfer from Piezoelectric Nanoparticles to Cu Catalysts. <i>Macromolecules</i> , 2017, 50, 7940-7948.	4.8	114
49	Polydopamine Particles Reinforced Poly(vinyl alcohol) Hydrogel with NIR Light Triggered Shape Memory and Self-Healing Capability. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700421.	3.9	97
50	Selective Laser Sintering 3D Printing: A Way to Construct 3D Electrically Conductive Segregated Network in Polymer Matrix. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700211.	3.6	67
51	Preparation of hollow polyurethane microspheres with tunable surface structures via electrospraying technology. <i>RSC Advances</i> , 2017, 7, 49828-49837.	3.6	16
52	Water-repairable zwitterionic polymer coatings for anti-biofouling surfaces. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6728-6733.	5.8	58
53	Antifouling Properties of Fluoropolymer Brushes toward Organic Polymers: The Influence of Composition, Thickness, Brush Architecture, and Annealing. <i>Langmuir</i> , 2016, 32, 6571-6581.	3.5	30
54	Self-Healing Superhydrophobic Fluoropolymer Brushes as Highly Protein-Repellent Coatings. <i>Langmuir</i> , 2016, 32, 6310-6318.	3.5	67

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55	Fluorinated alkyne-derived monolayers on oxide-free silicon nanowires via one-step hydrosilylation. <i>Applied Surface Science</i> , 2016, 387, 1202-1210.	6.1	11
56	Highly Polymer-Repellent yet Atomically Flat Surfaces Based on Organic Monolayers with a Single Fluorine Atom. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500514.	3.7	7
57	Self-healing fluoropolymer brushes as highly polymer-repellent coatings. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2408-2412.	10.3	39
58	One-dimensional photonic crystals: fabrication, responsiveness and emerging applications in 3D construction. <i>RSC Advances</i> , 2016, 6, 4505-4520.	3.6	110
59	From 1D to 3D: a new route to fabricate tridimensional structures via photo-generation of silver networks. <i>RSC Advances</i> , 2015, 5, 28633-28642.	3.6	7
60	UV-induced self-repairing polydimethylsiloxane-polyurethane (PDMS-PUR) and polyethylene glycol-polyurethane (PEG-PUR) Cu-catalyzed networks. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15527.	10.3	67
61	Biochemical-to-optical signal transduction by pH sensitive organic-inorganic hybrid Bragg stacks with a full color display. <i>Journal of Materials Chemistry C</i> , 2013, 1, 977-983.	5.5	27
62	Facile UV-healable polyethylenimine-copper (C ₂ H ₅ N-Cu) supramolecular polymer networks. <i>Polymer Chemistry</i> , 2013, 4, 4897-4901.	3.9	82
63	Low Electric Field Intensity and Thermotropic Tuning Surface Plasmon Band Shift of Gold Island Film by Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2720-2727.	3.1	15
64	Polymer Bragg stack as color tunable photonic paper. <i>Journal of Materials Chemistry</i> , 2012, 22, 7887.	6.7	57
65	Patterning Organic/Inorganic Hybrid Bragg Stacks by Integrating One-Dimensional Photonic Crystals and Macrocavities through Photolithography: Toward Tunable Colorful Patterns as Highly Selective Sensors. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1397-1403.	8.0	43
66	Avoiding coffee ring structure based on hydrophobic silicon pillar arrays during single-drop evaporation. <i>Soft Matter</i> , 2012, 8, 10448.	2.7	61
67	Suppression of the Coffee Ring Effect by Hydrosoluble Polymer Additives. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2775-2780.	8.0	167
68	Fabrication of biomimetic high performance antireflective and antifogging film by spin-coating. <i>Journal of Colloid and Interface Science</i> , 2012, 374, 89-95.	9.4	18
69	Colorful detection of organic solvents based on responsive organic/inorganic hybrid one-dimensional photonic crystals. <i>Journal of Materials Chemistry</i> , 2011, 21, 1264-1270.	6.7	104
70	Fabrication of Silicon/Polymer Composite Nanopost Arrays and Their Sensing Applications. <i>Small</i> , 2011, 7, 2769-2774.	10.0	24
71	Bioinspired Water-Vapor-Responsive Organic/Inorganic Hybrid One-Dimensional Photonic Crystals with Tunable Full-Color Stop Band. <i>Advanced Functional Materials</i> , 2010, 20, 3784-3790.	14.9	184
72	Improved light extraction efficiency of white organic light-emitting devices by biomimetic antireflective surfaces. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	46

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73	Bioinspired Silica Surfaces with Near-Infrared Improved Transmittance and Superhydrophobicity by Colloidal Lithography. <i>Langmuir</i> , 2010, 26, 9842-9847.	3.5	99
74	Full Color Plasmonic Nanostructured Surfaces and Their Sensor Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19908-19912.	3.1	13
75	Morphology-controlled two-dimensional elliptical hemisphere arrays fabricated by a colloidal crystal based micromolding method. <i>Journal of Materials Chemistry</i> , 2010, 20, 152-158.	6.7	25
76	Organic-inorganic hybrid photonic hydrogels as a colorful platform for visual detection of SCN ⁻ . <i>Chemical Communications</i> , 2010, 46, 8636.	4.1	34
77	Biomimetic Surfaces for High-Performance Optics. <i>Advanced Materials</i> , 2009, 21, 4731-4734.	21.0	84
78	Bioinspired silicon hollow-tip arrays for high performance broadband anti-reflective and water-repellent coatings. <i>Journal of Materials Chemistry</i> , 2009, 19, 1806.	6.7	104
79	Polystyrene@TiO ₂ core-shell microsphere colloidal crystals and nonspherical macro-porous materials. <i>Journal of Colloid and Interface Science</i> , 2008, 325, 567-572.	9.4	26
80	Self-assembling Behavior of Amphiphilic Copolymer Containing Cross-linked Hydrophilic Block in Ethanol. <i>Chemical Research in Chinese Universities</i> , 2007, 23, 101-104.	2.6	1
81	PbS nanoparticles/polymer composite aggregates through self-assembly of amphiphilic copolymer containing cross-linked hydrophilic block. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 292, 159-164.	4.7	6