Jiajun Fu

List of Publications by Year
in descending order

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65 papers	4,278 citations	71097 41 h-index	114455 63 g-index
67 all docs	67 docs citations	67 times ranked	3970 citing authors

#	Article	IF	Citations
1	Acid and Alkaline Dual Stimuli-Responsive Mechanized Hollow Mesoporous Silica Nanoparticles as Smart Nanocontainers for Intelligent Anticorrosion Coatings. ACS Nano, 2013, 7, 11397-11408.	14.6	234
2	Transparent, Mechanically Strong, Extremely Tough, Selfâ€Recoverable, Healable Supramolecular Elastomers Facilely Fabricated via Dynamic Hard Domains Design for Multifunctional Applications. Advanced Functional Materials, 2020, 30, 1907109.	14.9	208
3	A Fast Roomâ€Temperature Selfâ€Healing Glassy Polyurethane. Angewandte Chemie - International Edition, 2021, 60, 7947-7955.	13.8	183
4	Superhydrophobic composite coating with active corrosion resistance for AZ31B magnesium alloy protection. Chemical Engineering Journal, 2019, 357, 518-532.	12.7	178
5	Experimental and Theoretical Study on the Inhibition Performances of Quinoxaline and Its Derivatives for the Corrosion of Mild Steel in Hydrochloric Acid. Industrial & Engineering Chemistry Research, 2012, 51, 6377-6386.	3.7	165
6	Self-healing, superhydrophobic coating based on mechanized silica nanoparticles for reliable protection of magnesium alloys. Journal of Materials Chemistry A, 2016, 4, 8041-8052.	10.3	144
7	Autonomous self-healing supramolecular elastomer reinforced and toughened by graphitic carbon nitride nanosheets tailored for smart anticorrosion coating applications. Journal of Materials Chemistry A, 2018, 6, 5887-5898.	10.3	129
8	l-Tryptophan as green corrosion inhibitor for low carbon steel in hydrochloric acid solution. Journal of Materials Science, 2010, 45, 979-986.	3.7	124
9	Extremely Stretchable, Self-Healable Elastomers with Tunable Mechanical Properties: Synthesis and Applications. Chemistry of Materials, 2018, 30, 6026-6039.	6.7	118
10	Computational and electrochemical studies of some amino acid compounds as corrosion inhibitors for mild steel in hydrochloric acid solution. Journal of Materials Science, 2010, 45, 6255-6265.	3.7	116
11	Recent Advances in Stimuli-Responsive Release Function Drug Delivery Systems for Tumor Treatment. Molecules, 2016, 21, 1715.	3.8	110
12	Notch-Insensitive, Ultrastretchable, Efficient Self-Healing Supramolecular Polymers Constructed from Multiphase Active Hydrogen Bonds for Electronic Applications. Chemistry of Materials, 2019, 31, 7951-7961.	6.7	106
13	Monolithic cobalt-doped carbon aerogel for efficient catalytic activation of peroxymonosulfate in water. Journal of Hazardous Materials, 2017, 332, 195-204.	12.4	103
14	Molecular engineering of a colorless, extremely tough, superiorly self-recoverable, and healable poly(urethaneâ€“urea) elastomer for impact-resistant applications. Materials Horizons, 2021, 8, 2238-2250.	12.2	103
15	Biodegradation of phenolic compounds from coking wastewater by immobilized white rot fungus Phanerochaete chrysosporium. Journal of Hazardous Materials, 2009, 165, 1091-1097.	12.4	102
16	An intelligent anticorrosion coating based on pH-responsive supramolecular nanocontainers. Nanotechnology, 2012, 23, 505705.	2.6	96
17	An intelligent anticorrosion coating based on pH-responsive smart nanocontainers fabricated via a facile method for protection of carbon steel. Journal of Materials Chemistry A, 2015, 3, 6423-6431.	10.3	91
18	Design and Fabrication of a Novel Stimulus-Feedback Anticorrosion Coating Featured by Rapid Self-Healing Functionality for the Protection of Magnesium Alloy. ACS Applied Materials & Interfaces, 2017, 9, 21034-21047.	8.0	89

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19	Graphene quantum dot-capped mesoporous silica nanoparticles through an acid-cleavable acetal bond for intracellular drug delivery and imaging. Journal of Materials Chemistry B, 2014, 2, 4979.	5.8	88
20	Triple-Stimuli-Responsive Smart Nanocontainers Enhanced Self-Healing Anticorrosion Coatings for Protection of Aluminum Alloy. ACS Applied Materials & Interfaces, 2019, 11, 4425-4438.	8.0	82
21	pH-responsive nanovalves based on hollow mesoporous silica spheres for controlled release of corrosion inhibitor. Nanotechnology, 2012, 23, 235605.	2.6	81
22	Chemically engineered mesoporous silica nanoparticles-based intelligent delivery systems for theranostic applications in multiple cancerous/non-cancerous diseases. Coordination Chemistry Reviews, 2022, 452, 214309.	18.8	81
23	Computational and electrochemical studies on the inhibition of corrosion of mild steel by l-Cysteine and its derivatives. Journal of Materials Science, 2011, 46, 3550-3559.	3.7	75
24	An autonomously ultrafast self-healing, highly colourless, tear-resistant and compliant elastomer tailored for transparent electromagnetic interference shielding films integrated in flexible and optical electronics. Materials Horizons, 2021, 8, 3356-3367.	12.2	74
25	Improvement in corrosion protection properties of TiO2 coatings by chromium doping. Corrosion Science, 2013, 68, 101-110.	6.6	73
26	Superhydrophobic P (St-DVB) foam prepared by the high internal phase emulsion technique for oil spill recovery. Chemical Engineering Journal, 2016, 298, 117-124.	12.7	69
27	Mono-benzimidazole functionalized Î²-cyclodextrins as supramolecular nanovalves for pH-triggered release of p-coumaric acid. Chemical Communications, 2014, 50, 12469-12472.	4.1	68
28	Dragonfly wing-inspired architecture makes a stiff yet tough healable material. Matter, 2021, 4, 2474-2489.	10.0	63
29	Dual-templating synthesis of compressible and superhydrophobic spongy polystyrene for oil capture. Chemical Engineering Journal, 2018, 354, 245-253.	12.7	61
30	Facile Preparation of Magnetic Poly(styrene-divinylbenzene) Foam and Its Application as an Oil Absorbent. Industrial & Engineering Chemistry Research, 2015, 54, 11033-11039.	3.7	60
31	Facile Synthesis of Smart Nanocontainers as Key Components for Construction of Self-Healing Coating with Superhydrophobic Surfaces. Nanoscale Research Letters, 2016, 11, 231.	5.7	60
32	Intrinsic self-healing polymers for advanced lithium-based batteries: Advances and strategies. Applied Physics Reviews, 2020, 7, .	11.3	58
33	Redox-triggered controlled release systems-based bi-layered nanocomposite coating with synergistic self-healing property. Journal of Materials Chemistry A, 2017, 5, 1756-1768.	10.3	57
34	Controlled release of cargo molecules from hollow mesoporous silica nanoparticles based on acid and base dual-responsive cucurbit[7]uril pseudorotaxanes. Chemical Communications, 2013, 49, 6555.	4.1	55
35	Novel sea cucumber-inspired material based on stiff, strong yet tough elastomer with unique self-healing and recyclable functionalities. Journal of Materials Chemistry A, 2018, 6, 24291-24297.	10.3	54
36	Highly thermoconductive yet ultraflexible polymer composites with superior mechanical properties and autonomous self-healing functionalityviaa binary filler strategy. Materials Horizons, 2022, 9, 640-652.	12.2	53

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37	Highly stretchable, non-flammable and notch-insensitive intrinsic self-healing solid-state polymer electrolyte for stable and safe flexible lithium batteries. Journal of Materials Chemistry A, 2021, 9, 4758-4769.	10.3	51
38	Study on cerium-doped nano-TiO2 coatings for corrosion protection of 316â€‰L stainless steel. Nanoscale Research Letters, 2012, 7, 227.	5.7	47
39	Nanovalves-Based Bacteria-Triggered, Self-Defensive Antibacterial Coating: Using Combination Therapy, Dual Stimuli-Responsiveness, and Multiple Release Modes for Treatment of Implant-Associated Infections. Chemistry of Materials, 2017, 29, 8325-8337.	6.7	47
40	Triple-stimuli-responsive nanocontainers assembled by water-soluble pillar[5]arene-based pseudorotaxanes for controlled release. Journal of Materials Chemistry B, 2016, 4, 2819-2827.	5.8	45
41	Mechanized silica nanoparticles based on reversible bistable [2]pseudorotaxanes as supramolecular nanovalves for multistage pH-controlled release. Chemical Communications, 2014, 50, 5068-5071.	4.1	43
42	Voltage/pH-Driven Mechanized Silica Nanoparticles for the Multimodal Controlled Release of Drugs. ACS Applied Materials & Interfaces, 2015, 7, 21295-21304.	8.0	39
43	Parthenocissus-inspired, strongly adhesive, efficiently self-healing polymers for energetic adhesive applications. Journal of Materials Chemistry A, 2021, 9, 16076-16085.	10.3	39
44	Acid and light stimuli-responsive mesoporous silica nanoparticles for controlled release. Journal of Materials Science, 2019, 54, 6199-6211.	3.7	38
45	Dual-functional anti-biofouling coatings with intrinsic self-healing ability. Chemical Engineering Journal, 2020, 389, 123469.	12.7	38
46	Healable, highly thermal conductive, flexible polymer composite with excellent mechanical properties and multiple functionalities. Chemical Engineering Journal, 2022, 430, 133163.	12.7	35
47	Mechanically robust, highly adhesive and autonomously low-temperature self-healing elastomer fabricated based on dynamic metalÂâ^Âligand interactions tailored for functional energetic composites. Chemical Engineering Journal, 2021, 425, 130665.	12.7	32
48	Facilitated photoinduced electron storage and two-electron reduction of oxygen by reduced graphene oxide in rGO/TiO 2 /WO 3 composites. Electrochimica Acta, 2017, 250, 108-116.	5.2	29
49	Electrospun Nanofibrous Polyphenylene Oxide Membranes for High-Salinity Water Desalination by Direct Contact Membrane Distillation. ACS Sustainable Chemistry and Engineering, 2019, 7, 20060-20069.	6.7	27
50	Dual pH-Mediated Mechanized Hollow Zirconia Nanospheres. ACS Applied Materials & Interfaces, 2016, 8, 23289-23301.	8.0	26
51	UV-light cross-linked and pH de-cross-linked coumarin-decorated cationic copolymer grafted mesoporous silica nanoparticles for drug and gene co-delivery in vitro. Materials Science and Engineering C, 2020, 108, 110469.	7.3	25
52	Printable, room-temperature self-healing and full-color-tunable emissive composites for transparent panchromatic display and flexible high-level anti-counterfeiting. Chemical Engineering Journal, 2022, 431, 133728.	12.7	25
53	Supramolecular Valves Functionalized Rattle-Structured UCNPs@hm-SiO₂ Nanoparticles with Controlled Drug Release Triggered by Quintuple Stimuli and Dual-Modality Imaging Functions: A Potential Theranostic Nanomedicine. ACS Biomaterials Science and Engineering, 2019, 5, 6022-6035.	5.2	17
54	Quadruple Stimuliâ€Responsive Mechanized Silica Nanoparticles: A Promising Multifunctional Nanomaterial for Diverse Applications. Chemistry - A European Journal, 2017, 23, 15041-15045.	3.3	14

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55	An Investigation for the Key Role of Surfactants in Activated Sludge Dewatering. Journal of Chemical Engineering of Japan, 2010, 43, 238-246.	0.6	10
56	High performance poly(methyl methacrylate) via hindered urea bond crosslinking. Journal of Materials Chemistry A, 2022, 10, 9457-9467.	10.3	9
57	Effect of synthetic cationic surfactants on dewaterability and settleability of activated sludge. International Journal of Environment and Pollution, 2009, 37, 113.	0.2	7
58	A Fast Roomâ€Temperature Selfâ€Healing Glassy Polyurethane. Angewandte Chemie, 2021, 133, 8026-8034.	2.0	6
59	Nanozyme: a New Strategy Combating Bacterial. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 257.	1.3	6
60	Synthesis and characterisation of new cationic polyelectrolytes by inverse emulsion polymerisation and their application in activated sludge dewatering. International Journal of Environment and Pollution, 2009, 38, 397.	0.2	4
61	Transparent, Mechanically Strong, Amphiphilic Antibiofouling Coatings Integrating Antismudge and Intrinsic Self-Healing Capabilities. ACS Applied Polymer Materials, 2021, 3, 3416-3427.	4.4	4
62	Smart anticorrosion coatings based on nanocontainers. , 2020, , 413-429.		2
63	Application of a Well-Designed Cationic Polyelectrolyte for Activated Sludge Dewatering. Journal of Chemical Engineering of Japan, 2007, 40, 1113-1120.	0.6	1
64	Effect of Lanthanum Doping on Corrosion Protection Properties of TiO₂ Coatings. Advanced Materials Research, 0, 557-559, 1830-1833.	0.3	0
65	Synthesis, Crystal Structure and Fluorescence Spectrum Studies of Bromocoumarin Derivants: C₁₀H₅Br₃O and C₁₂H₉BrO₄. Advanced Materials Research, 2012, 455-456, 746-751.	0.3	0