Jiajun Fu

List of Publications by Citations

64 papers	2,759 citations	32 h-index	52 g-index
67 ext. papers	3,507 ext. citations	8.7 avg, IF	5.67 L-index

#	Paper	IF	Citations
64	Acid and alkaline dual stimuli-responsive mechanized hollow mesoporous silica nanoparticles as smart nanocontainers for intelligent anticorrosion coatings. *ACS Nano*, **2013**, 7, 11397-408	16.7	194
63	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	3.9	147
62	Self-healing, superhydrophobic coating based on mechanized silica nanoparticles for reliable protection of magnesium alloys. *Journal of Materials Chemistry A*, **2016**, 4, 8041-8052	13	106
61	Superhydrophobic composite coating with active corrosion resistance for AZ31B magnesium alloy protection. *Chemical Engineering Journal*, **2019**, 357, 518-532	14.7	106
60	Transparent, Mechanically Strong, Extremely Tough, Self-Recoverable, Healable Supramolecular Elastomers Facilely Fabricated via Dynamic Hard Domains Design for Multifunctional Applications. *Advanced Functional Materials*, **2020**, 30, 1907109	15.6	100
59	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	13	94
58	l-Tryptophan as green corrosion inhibitor for low carbon steel in hydrochloric acid solution. *Journal of Materials Science*, **2010**, 45, 979-986	4.3	90
57	Recent Advances in Stimuli-Responsive Release Function Drug Delivery Systems for Tumor Treatment. *Molecules*, **2016**, 21,	4.8	89
56	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, 4979-4982	7.3	85
55	An intelligent anticorrosion coating based on pH-responsive supramolecular nanocontainers. *Nanotechnology*, **2012**, 23, 505705	3.4	85
54	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	4.3	82
53	Biodegradation of phenolic compounds from coking wastewater by immobilized white rot fungus Phanerochaete chrysosporium. *Journal of Hazardous Materials*, **2009**, 165, 1091-7	12.8	81
52	Monolithic cobalt-doped carbon aerogel for efficient catalytic activation of peroxymonosulfate in water. *Journal of Hazardous Materials*, **2017**, 332, 195-204	12.8	76
51	Extremely Stretchable, Self-Healable Elastomers with Tunable Mechanical Properties: Synthesis and Applications. *Chemistry of Materials*, **2018**, 30, 6026-6039	9.6	74
50	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	13	71
49	Improvement in corrosion protection properties of TiO2 coatings by chromium doping. *Corrosion Science*, **2013**, 68, 101-110	6.8	62
48	pH-responsive nanovalves based on hollow mesoporous silica spheres for controlled release of corrosion inhibitor. *Nanotechnology*, **2012**, 23, 235605	3.4	62

47	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	4.3	59
46	A Fast Room-Temperature Self-Healing Glassy Polyurethane. *Angewandte Chemie - International Edition*, **2021**, 60, 7947-7955	16.4	58
45	Facile Preparation of Magnetic Poly(styrene-divinylbenzene) Foam and Its Application as an Oil Absorbent. *Industrial & Engineering Chemistry Research*, **2015**, 54, 11033-11039	3.9	56
44	Mono-benzimidazole functionalized β-cyclodextrins as supramolecular nanovalves for pH-triggered release of p-coumaric acid. *Chemical Communications*, **2014**, 50, 12469-72	5.8	54
43	Superhydrophobic P (St-DVB) foam prepared by the high internal phase emulsion technique for oil spill recovery. *Chemical Engineering Journal*, **2016**, 298, 117-124	14.7	54
42	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	9.5	53
41	Triple-Stimuli-Responsive Smart Nanocontainers Enhanced Self-Healing Anticorrosion Coatings for Protection of Aluminum Alloy. *ACS Applied Materials & Interfaces*, **2019**, 11, 4425-4438	9.5	53
40	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, 6555-7	5.8	52
39	Redox-triggered controlled release systems-based bi-layered nanocomposite coating with synergistic self-healing property. *Journal of Materials Chemistry A*, **2017**, 5, 1756-1768	13	48
38	Notch-Insensitive, Ultrastretchable, Efficient Self-Healing Supramolecular Polymers Constructed from Multiphase Active Hydrogen Bonds for Electronic Applications. *Chemistry of Materials*, **2019**, 31, 7951-7961	9.6	47
37	Dual-templating synthesis of compressible and superhydrophobic spongy polystyrene for oil capture. *Chemical Engineering Journal*, **2018**, 354, 245-253	14.7	43
36	Facile Synthesis of Smart Nanocontainers as Key Components for Construction of Self-Healing Coating with Superhydrophobic Surfaces. *Nanoscale Research Letters*, **2016**, 11, 231	5	43
35	Mechanized silica nanoparticles based on reversible bistable [2]pseudorotaxanes as supramolecular nanovalves for multistage pH-controlled release. *Chemical Communications*, **2014**, 50, 5068-71	5.8	40
34	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	7.3	40
33	Study on cerium-doped nano-TiO2 coatings for corrosion protection of 316 L stainless steel. *Nanoscale Research Letters*, **2012**, 7, 227	5	37
32	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	13	32
31	Voltage/pH-Driven Mechanized Silica Nanoparticles for the Multimodal Controlled Release of Drugs. *ACS Applied Materials & Interfaces*, **2015**, 7, 21295-304	9.5	31
30	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	9.6	31

29	Acid and light stimuli-responsive mesoporous silica nanoparticles for controlled release. *Journal of Materials Science*, **2019**, 54, 6199-6211	4.3	29
28	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	13	27
27	Molecular engineering of a colorless, extremely tough, superiorly self-recoverable, and healable poly(urethane-urea) elastomer for impact-resistant applications. *Materials Horizons*, **2021**, 8, 2238-2250	14.4	26
26	Intrinsic self-healing polymers for advanced lithium-based batteries: Advances and strategies. *Applied Physics Reviews*, **2020**, 7, 031304	17.3	25
25	Facilitated photoinduced electron storage and two-electron reduction of oxygen by reduced graphene oxide in rGO/TiO2/WO3 composites. *Electrochimica Acta*, **2017**, 250, 108-116	6.7	23
24	Dragonfly wing-inspired architecture makes a stiff yet tough healable material. *Matter*, **2021**, 4, 2474-2489	12.7	22
23	Dual pH-Mediated Mechanized Hollow Zirconia Nanospheres. *ACS Applied Materials & Interfaces*, **2016**, 8, 23289-301	9.5	21
22	Dual-functional anti-biofouling coatings with intrinsic self-healing ability. *Chemical Engineering Journal*, **2020**, 389, 123469	14.7	18
21	Electrospun Nanofibrous Polyphenylene Oxide Membranes for High-Salinity Water Desalination by Direct Contact Membrane Distillation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 20060-20069	8.3	17
20	Chemically engineered mesoporous silica nanoparticles-based intelligent delivery systems for theranostic applications in multiple cancerous/non-cancerous diseases. *Coordination Chemistry Reviews*, **2022**, 452, 214309	23.2	15
19	Quadruple Stimuli-Responsive Mechanized Silica Nanoparticles: A Promising Multifunctional Nanomaterial for Diverse Applications. *Chemistry - A European Journal*, **2017**, 23, 15041-15045	4.8	13
18	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	8.3	13
17	Healable, highly thermal conductive, flexible polymer composite with excellent mechanical properties and multiple functionalities. *Chemical Engineering Journal*, **2021**, 133163	14.7	10
16	Supramolecular Valves Functionalized Rattle-Structured UCNPs@hm-SiO 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	5.5	9
15	An Investigation for the Key Role of Surfactants in Activated Sludge Dewatering. *Journal of Chemical Engineering of Japan*, **2010**, 43, 238-246	0.8	9
14	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	14.4	8
13	Effect of synthetic cationic surfactants on dewaterability and settleability of activated sludge. *International Journal of Environment and Pollution*, **2009**, 37, 113	0.7	7
12	Parthenocissus-inspired, strongly adhesive, efficiently self-healing polymers for energetic adhesive applications. *Journal of Materials Chemistry A*, **2021**, 9, 16076-16085	13	7

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11	Mechanically robust, highly adhesive and autonomously low-temperature self-healing elastomer fabricated based on dynamic metal□ligand interactions tailored for functional energetic composites. *Chemical Engineering Journal*, **2021**, 425, 130665	14.7	7
10	Highly thermoconductive yet ultraflexible polymer composites with superior mechanical properties and autonomous self-healing functionality a binary filler strategy. *Materials Horizons*, **2021**,	14.4	5
9	Printable, room-temperature self-healing and full-color-tunable emissive composites for transparent panchromatic display and flexible high-level anti-counterfeiting. *Chemical Engineering Journal*, **2021**, 133728	14.7	5
8	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	0.7	4
7	A Fast Room-Temperature Self-Healing Glassy Polyurethane. *Angewandte Chemie*, **2021**, 133, 8026-8034	3.6	2
6	Application of a Well-Designed Cationic Polyelectrolyte for Activated Sludge Dewatering. *Journal of Chemical Engineering of Japan*, **2007**, 40, 1113-1120	0.8	1
5	Transparent, Mechanically Strong, Amphiphilic Antibiofouling Coatings Integrating Antismudge and Intrinsic Self-Healing Capabilities. *ACS Applied Polymer Materials*, **2021**, 3, 3416-3427	4.3	1
4	Smart anticorrosion coatings based on nanocontainers **2020**, 413-429		0
3	Nanozyme: a New Strategy Combating Bacterial. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2021**, 36, 257	1	0
2	Synthesis, Crystal Structure and Fluorescence Spectrum Studies of Bromocoumarin Derivants: C10H5Br3O and C12H9BrO4. *Advanced Materials Research*, **2012**, 455-456, 746-751	0.5	
1	Effect of Lanthanum Doping on Corrosion Protection Properties of TiO2 Coatings. *Advanced Materials Research*, **2012**, 557-559, 1830-1833	0.5	