

Xu Wang

List of Publications by Year in descending order

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46
papers

1,885
citations

361413

20
h-index

254184

43
g-index

50
all docs

50
docs citations

50
times ranked

2794
citing authors

#	ARTICLE	IF	CITATIONS
1	Layer-by-layer assembly for rapid fabrication of thick polymeric films. <i>Chemical Society Reviews</i> , 2012, 41, 5998.	38.1	323
2	Water-Enabled Self-Healing of Polyelectrolyte Multilayer Coatings. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11378-11381.	13.8	288
3	A drug-specific nanocarrier design for efficient anticancer therapy. <i>Nature Communications</i> , 2015, 6, 7449.	12.8	131
4	Telodendrimer nanocarrier for co-delivery of paclitaxel and cisplatin: A synergistic combination nanotherapy for ovarian cancer treatment. <i>Biomaterials</i> , 2015, 37, 456-468.	11.4	125
5	Layer-by-Layer Assembly of a Self-Healing Anticorrosion Coating on Magnesium Alloys. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27271-27278.	8.0	124
6	Optically Transparent Antibacterial Films Capable of Healing Multiple Scratches. <i>Advanced Functional Materials</i> , 2014, 24, 403-411.	14.9	123
7	Layer-by-Layer Assembled Microgel Films with High Loading Capacity: Reversible Loading and Release of Dyes and Nanoparticles. <i>Langmuir</i> , 2008, 24, 1902-1909.	3.5	64
8	Enzyme-Regulated Healable Polymeric Hydrogels. <i>ACS Central Science</i> , 2020, 6, 1507-1522.	11.3	48
9	Fine-Tuning Vitamin E-Containing Telodendrimers for Efficient Delivery of Gambogic Acid in Colon Cancer Treatment. <i>Molecular Pharmaceutics</i> , 2015, 12, 1216-1229.	4.6	42
10	Bioinspired Self-Healing of Kinetically Inert Hydrogels Mediated by Chemical Nutrient Supply. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6471-6478.	8.0	42
11	Multifunctional Telodendrimer Nanocarriers Restore Synergy of Bortezomib and Doxorubicin in Ovarian Cancer Treatment. <i>Cancer Research</i> , 2017, 77, 3293-3305.	0.9	40
12	Layer-by-Layer Assembled Polyampholyte Microgel Films for Simultaneous Release of Anionic and Cationic Molecules. <i>Langmuir</i> , 2010, 26, 8187-8194.	3.5	38
13	Influence of grain orientation on the incipient oxidation behavior of Haynes 230 at 900 °C. <i>Materials Characterization</i> , 2015, 107, 33-42.	4.4	38
14	Riboflavin-containing telodendrimer nanocarriers for efficient doxorubicin delivery: High loading capacity, increased stability, and improved anticancer efficacy. <i>Biomaterials</i> , 2017, 141, 161-175.	11.4	34
15	Affinity-controlled protein encapsulation into sub-30 nm telodendrimer nanocarriers by multivalent and synergistic interactions. <i>Biomaterials</i> , 2016, 101, 258-271.	11.4	32
16	Effects of grain sizes on the oxidation behavior of Ni-based alloy 230 and N. <i>Journal of Alloys and Compounds</i> , 2018, 752, 40-52.	5.5	31
17	Transient Healability of Metallosupramolecular Polymer Networks Mediated by Kinetic Control of Competing Chemical Reactions. <i>Macromolecules</i> , 2020, 53, 2856-2863.	4.8	30
18	Control of Self-Assembled Structure through Architecturally and Compositionally Complex Block Copolymer Surfactant Mixtures. <i>Macromolecules</i> , 2014, 47, 7138-7150.	4.8	22

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19	Effect of surface crystallographic orientation on the oxidation behavior of Ni-based alloy. <i>Applied Surface Science</i> , 2015, 327, 532-536.	6.1	21
20	Electrospun poly(vinyl alcohol) nanofiber films containing menthol/ β -cyclodextrin inclusion complexes for smoke filtration and flavor retention. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 605, 125378.	4.7	19
21	Tunable Lipidoid- β -cyclodextrin Hybrid Nanoparticles for Intracellular Protein Delivery in Brain Tumor Treatment. <i>Small</i> , 2016, 12, 4185-4192.	10.0	17
22	Mechanism of Texture Formation in Iron Boride Coatings on Low-Carbon Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 58-62.	2.2	17
23	Polymers with a Coiled Conformation Enable Healing of Wide and Deep Damages in Polymeric Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30716-30722.	8.0	15
24	On-Demand Regulation of Photoreversible Color Switching for Rewritable Paper and Transient Information Encryption. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44797-44805.	8.0	15
25	Nonequilibrium regulation of interfacial chemistry for transient macroscopic supramolecular assembly. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 674-684.	9.4	13
26	Dependence of Crystallographic Orientation on Pitting Corrosion Behavior of Ni-Fe-Cr Alloy 028. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 919-925.	2.1	12
27	Versatile Synthesis of Amine-Reactive Microgels by Self-Assembly of Azlactone-Containing Block Copolymers. <i>Macromolecules</i> , 2018, 51, 3691-3701.	4.8	12
28	Self-powered quasi-solid-state electrochromic devices for optical information encryption. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	12
29	Optimizing cathodic electrodeposition parameters of ceria coating to enhance the oxidation resistance of a Cr ₂ O ₃ -forming alloy. <i>Thin Solid Films</i> , 2016, 611, 12-20.	1.8	11
30	Host-Fueled Transient Supramolecular Hydrogels. <i>ChemSystemsChem</i> , 2022, 4, .	2.6	11
31	Enzymatically mediated, physiologically triggered N-palmitoyl chitosan hydrogels with temporally modulated high injectability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 582, 123940.	4.7	10
32	Layer-by-layer deposition of magnetic microgel films on plastic surfaces for the preparation of magnetic resonance visibility enhancing coatings. <i>Journal of Materials Chemistry</i> , 2010, 20, 555-560.	6.7	9
33	Solution Properties of Architecturally Complex Multiarm Star Diblock Copolymers in a Nonselective and Selective Solvent for the Inner Block. <i>Macromolecules</i> , 2016, 49, 2288-2297.	4.8	9
34	Amoeba-inspired reengineering of polymer networks. <i>Green Chemistry</i> , 2021, 23, 2496-2506.	9.0	9
35	Dual pH-/Photo-Responsive Color Switching Systems for Dynamic Rewritable Paper. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5825-5833.	8.0	9
36	Self-reporting of damage in underwater hierarchical ionic skins via cascade reaction-regulated chemiluminescence. <i>Materials Horizons</i> , 2022, 9, 2128-2137.	12.2	9

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37	Repairing Creep-Resistant and Kinetically Inert Hydrogels via Yeast Activity-Regulated Energy Dissipation. <i>ACS Applied Bio Materials</i> , 2020, 3, 4507-4513.	4.6	8
38	Effect of CeO ₂ Coating on the Isothermal Oxidation Behaviour of Ni-Based Alloy 230. <i>Oxidation of Metals</i> , 2017, 88, 565-582.	2.1	6
39	Systems Chemistry in Self-Healing Materials. <i>ChemSystemsChem</i> , 2021, 3, e2100016.	2.6	6
40	Sunlight-Responsive Titania-Hydrated Tungsten Oxide Heteronanoparticles/Paper-Based Color-Switching Film for Solar Ultraviolet Radiation Monitors. <i>ACS Applied Nano Materials</i> , 2022, 5, 4009-4017.	5.0	6
41	Impact of chain microstructure on solution and thin film self-assembly of PCHD-based semi-flexible/flexible diblock copolymers. <i>Soft Matter</i> , 2015, 11, 6509-6519.	2.7	5
42	Tailoring Azlactone-Based Block Copolymers for Stimuli-Responsive Disassembly of Nanocarriers. <i>Langmuir</i> , 2020, 36, 10200-10209.	3.5	5
43	Ceria coating for controlling the isothermal oxidation behaviour of Ni-based alloy 625. <i>Journal of Alloys and Compounds</i> , 2017, 729, 379-389.	5.5	4
44	Feedback-controlled topological reconfiguration of molecular assemblies for programming supramolecular structures. <i>Soft Matter</i> , 2022, 18, 3856-3866.	2.7	4
45	BIOINSPIRED SELF-HEALING COATINGS. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2014, , 391-417.	0.1	2
46	Investigation on the deformation and microstructure evolution of P91 steel in short-term small punch creep test. <i>Journal of Strain Analysis for Engineering Design</i> , 2018, 53, 248-254.	1.8	2