

Qi An

List of Publications by Year in descending order

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79
papers

2,178
citations

279701

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all docs

86
docs citations

86
times ranked

2879
citing authors

#	ARTICLE	IF	CITATIONS
1	Enriching surface-enhanced Raman spectral signatures in combined static and plasmonic electrical fields in self-powered substrates. <i>Nano Energy</i> , 2022, 92, 106737.	8.2	11
2	A healing promoting wound dressing with tailor-made antibacterial potency employing piezocatalytic processes in multi-functional nanocomposites. <i>Nanoscale</i> , 2022, 14, 2649-2659.	2.8	15
3	Solar-thermally Driven Effective Molybdenum Disulfide Electrochemical Hydrogen Evolution Reactions Using Photothermal Generators. <i>Energy Technology</i> , 2022, 10, .	1.8	1
4	Enzyme-mimetic Molecular Selective Catalysis via Single Zr Atom Catalysis in Chelated Cage Embedded in a Flexible Piezoelectrical Matrix. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	1
5	Latest development and versatile applications of highly integrating drug delivery patch. <i>European Polymer Journal</i> , 2022, 170, 111164.	2.6	5
6	Effective H ₂ O ₂ Production via Favorable Intermediate Desorption in Fluctuating Electrical Fields from Matrix-filler Mutually Enhanced P ₃ N ₄ /PVDF-HFP Porous Composite**. <i>ChemElectroChem</i> , 2022, 9, .	1.7	3
7	Sub-3 nm CoO Nanoparticles with Oxygen Vacancy-Dependent Catalytic Activity for the Oxygen Reduction Reaction. <i>ACS Applied Nano Materials</i> , 2022, 5, 8214-8223.	2.4	8
8	Nanoscopically-optimized carrier transportation and utilization in immobilized AuNP-TiO ₂ composite HER photocatalysts. <i>Applied Surface Science</i> , 2021, 537, 148055.	3.1	7
9	A porous piezoelectric-dielectric flexible energy conversion film for electricity generation from multiple sources. <i>Chemical Physics Letters</i> , 2021, 767, 138357.	1.2	4
10	Recent Development of Alginate-Based Materials and Their Versatile Functions in Biomedicine, Flexible Electronics, and Environmental Uses. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1302-1337.	2.6	71
11	Bifunctional Self-powered Drug Delivery System to Promote the Release and Transdermal Delivery of Polar Molecules. <i>ChemistrySelect</i> , 2021, 6, 3322-3330.	0.7	4
12	Functional Material Systems Based on Soft Cages. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1198-1215.	1.7	11
13	Elemental diversity-enhanced HER and OER photoelectrochemical catalytic performance in FeCo-AuNP/nitrogen-carbon composite catalysts. <i>Applied Surface Science</i> , 2021, 568, 151005.	3.1	6
14	Self-powered materials obtained by interfacing functional assemblies with energy harvesting films. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2623-2648.	3.2	11
15	A facile preparation method for MoS ₂ nanosheets and their well-controllable interfacial assembly with PEDOT: PSS for effective electrochemical hydrogen evolution reactions. <i>Journal of Materials Science</i> , 2021, 56, 7008-7021.	1.7	7
16	Active Basal Plane Catalytic Activity via Interfacial Engineering for a Finely Tunable Conducting Polymer/MoS ₂ Hydrogen Evolution Reaction Multilayer Structure. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 734-744.	4.0	17
17	Biofriendly molecular and protein release substrate with integrated piezoelectric motivation and anti-oxidative stress capabilities. <i>Nanoscale</i> , 2021, 13, 8481-8489.	2.8	5
18	Significant Aggregation-Enhanced Carrier Separation in Nanoscopic Catalysts Heterojunction Stacks. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56620-56629.	4.0	3

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19	Graphene for Energy Storage and Conversion: Synthesis and Interdisciplinary Applications. <i>Electrochemical Energy Reviews</i> , 2020, 3, 395-430.	13.1	59
20	A layer-by-layer strategy for the scalable preparation of uniform interfacial electrocatalysts with high structural tunability: a case study of a CoNP/N,P-graphene catalyst complex. <i>Nanoscale</i> , 2020, 12, 145-154.	2.8	1
21	Enhanced Electricity Generation and Tunable Preservation in Porous Polymeric Materials via Coupled Piezoelectric and Dielectric Processes. <i>Advanced Materials</i> , 2020, 32, e2003087.	11.1	33
22	Orthogonally Regulated Mechanical Strength and Molecular Delivery Capabilities Achieved in a Double Network Hydrogel Matrix. <i>ChemistrySelect</i> , 2020, 5, 5781-5787.	0.7	3
23	Remarkably Boosted Molecular Delivery Triggered by Combined Thermal and Flexoelectrical Field Dual Stimuli. <i>ChemistrySelect</i> , 2020, 5, 6715-6722.	0.7	3
24	A wearable solar-thermal-pyroelectric harvester: Achieving high power output using modified rGO-PEI and polarized PVDF. <i>Nano Energy</i> , 2020, 73, 104723.	8.2	40
25	A Scalable Interfacial Engineering Strategy for a Finely Tunable, Homogeneous MoS ₂ /rGO-Based HER Catalytic Structure. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902022.	1.9	18
26	Triboelectrically boosted SERS on sea-urchin-like gold clusters facilitated by a high dielectric substrate. <i>Nano Energy</i> , 2019, 64, 103959.	8.2	23
27	A self-powered delivery substrate boosts active enzyme delivery in response to human movements. <i>Nanoscale</i> , 2019, 11, 14372-14382.	2.8	15
28	An Effective Osteogenesis Porous CaP/Collagen Interface Compatible with Various Substrates Fabricated by Controlled Mineralization in a Delicately Adjustable Organic Matrix. <i>Chemistry - A European Journal</i> , 2019, 25, 16366-16376.	1.7	6
29	Using a Graphene-Polyelectrolyte Complex Reducing Agent To Promote Cracking in Single-Crystalline Gold Nanoplates. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41602-41610.	4.0	9
30	Stable polymer/inorganic composite multilayers using covalent cross-linking assisted by a magnetic field. <i>Journal of Materials Science</i> , 2019, 54, 11848-11857.	1.7	1
31	Sonication induced amorphisation in Ag nanowires. <i>Scientific Reports</i> , 2019, 9, 2114.	1.6	5
32	Preparation of Highly Loaded PAA/PAH Layer-by-layer Films by Combining Acid Transformation and Templating Methods. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 353-358.	1.3	3
33	Designing surface-enhanced Raman scattering (SERS) platforms beyond hotspot engineering: emerging opportunities in analyte manipulations and hybrid materials. <i>Chemical Society Reviews</i> , 2019, 48, 731-756.	18.7	468
34	Plasmonic gold particle generation in layer-by-layer 2D titania films as an effective immobilization strategy of composite photocatalysts for hydrogen generation. <i>Chemical Engineering Journal</i> , 2019, 358, 389-397.	6.6	17
35	Molecularly Selective Regulation of Delivery Fluxes by Employing Supramolecular Interactions in Layer-by-Layer Films. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1067-1073.	1.7	6
36	A self-powered porous ZnS/PVDF-HFP mechanoluminescent composite film that converts human movement into eye-readable light. <i>Nanoscale</i> , 2018, 10, 5489-5495.	2.8	41

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37	Direct 3D Printing of Reactive Agitating Impellers for the Convenient Treatment of Various Pollutants in Water. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701626.	1.9	18
38	Dehydrothermally crosslinked collagen/hydroxyapatite composite for enhanced in vivo bone repair. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 394-401.	2.5	35
39	Layer by Layer Mesoporous Silica-Hyaluronic Acid-Cyclodextrin Bifunctional "Lamination" Study of the Application of Fluorescent Probe and Host-Guest Interactions in the Drug Delivery Field. <i>Materials</i> , 2018, 11, 1745.	1.3	3
40	Multiple-Enzyme Graphene Microparticle Presenting Adaptive Chemical Network Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39194-39204.	4.0	3
41	A highly sensitive hybridized soft piezophotocatalyst driven by gentle mechanical disturbances in water. <i>Nano Energy</i> , 2018, 53, 513-523.	8.2	95
42	Covalent layer-by-layer films: chemistry, design, and multidisciplinary applications. <i>Chemical Society Reviews</i> , 2018, 47, 5061-5098.	18.7	122
43	A New Way to Promote Molecular Drug Release during Medical Treatment: A Polyelectrolyte Matrix on a Piezoelectric Dielectric Energy Conversion Substrate. <i>Small</i> , 2018, 14, e1802136.	5.2	31
44	The Fabrication of rGO/(PLL/PASP) ₃ @DOX Nanorods with pH-Switch for Photothermal Therapy and Chemotherapy. <i>Chemistry - A European Journal</i> , 2018, 24, 13830-13838.	1.7	8
45	Surface-Enhanced Raman Spectra Promoted by a Finger Press in an All-Solid-State Flexible Energy Conversion and Storage Film. <i>Angewandte Chemie</i> , 2017, 129, 2693-2698.	1.6	3
46	Surface-Enhanced Raman Spectra Promoted by a Finger Press in an All-Solid-State Flexible Energy Conversion and Storage Film. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2649-2654.	7.2	42
47	Innen-Ä¼ktitelbild: Surface-Enhanced Raman Spectra Promoted by a Finger Press in an All-Solid-State Flexible Energy Conversion and Storage Film (<i>Angew. Chem.</i> 10/2017). <i>Angewandte Chemie</i> , 2017, 129, 2849-2849.	1.6	0
48	Constructing the magnetic bifunctional graphene/titania nanosheet-based composite photocatalysts for enhanced visible-light photodegradation of MB and electrochemical ORR from polluted water. <i>Scientific Reports</i> , 2017, 7, 12296.	1.6	14
49	Fuzzy, copper-based multi-functional composite particles serving simultaneous catalytic and signal-enhancing roles. <i>Nanoscale</i> , 2016, 8, 9376-9381.	2.8	9
50	Controlled Interfacial Permeation, Nanostructure Formation, Catalytic Efficiency, Signal Enhancement Capability, and Cell Spreading by Adjusting Photochemical Cross-Linking Degrees of Layer-by-Layer Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34080-34088.	4.0	10
51	Bio-inspired Dynamic Gradients Regulated by Supramolecular Bindings in Receptor-Embedded Hydrogel Matrices. <i>ChemistryOpen</i> , 2016, 5, 331-338.	0.9	8
52	Properties and applications of designable and photo/redox dual responsive surfactants with the new head group 2-arylazo-imidazolium. <i>RSC Advances</i> , 2016, 6, 51552-51561.	1.7	9
53	A functional protein retention and release multilayer with high stability. <i>Nanoscale</i> , 2016, 8, 8791-8797.	2.8	11
54	Free-standing few-layered graphene oxide films: selective, steady and lasting permeation of organic molecules with adjustable speeds. <i>Nanoscale</i> , 2016, 8, 2003-2010.	2.8	17

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55	Energy Storage: An All-Solid-State Flexible Piezoelectric High-k Film Functioning as Both a Generator and In Situ Storage Unit (Adv. Funct. Mater. 45/2015). Advanced Functional Materials, 2015, 25, 7028-7028.	7.8	2
56	An All-Solid-State Flexible Piezoelectric High-k Film Functioning as Both a Generator and In Situ Storage Unit. Advanced Functional Materials, 2015, 25, 7029-7037.	7.8	50
57	Removal of alkali in the red mud by SO ₂ and simulated flue gas under mild conditions. Environmental Progress and Sustainable Energy, 2015, 34, 81-87.	1.3	29
58	Post-infiltration and subsequent photo-crosslinking strategy for layer-by-layer fabrication of stable dendrimers enabling repeated loading and release of hydrophobic molecules. Journal of Materials Chemistry B, 2015, 3, 562-569.	2.9	26
59	A facile method to fabricate functionally integrated devices for oil/water separation. Nanoscale, 2015, 7, 4553-4558.	2.8	61
60	A facile method for the construction of covalently cross-linked layered double hydroxides layer-by-layer films: Enhanced stability and delayed release of guests. Chemical Physics Letters, 2015, 631-632, 118-123.	1.2	8
61	Layer-by-layer reduced graphene oxide (rGO)/gold nanosheets (AuNSs) hybrid films: significantly enhanced photothermal transition effect compared with rGO or AuNSs films. RSC Advances, 2015, 5, 57389-57394.	1.7	8
62	Novel multiple coagulant from Bayer red mud for oily sewage treatment. Desalination and Water Treatment, 2015, 54, 690-698.	1.0	7
63	Achieving significantly enhanced dielectric performance of reduced graphene oxide/polymer composite by covalent modification of graphene oxide surface. Carbon, 2015, 94, 590-598.	5.4	108
64	Smoothing of fast assembled layer-by-layer films by adjusting assembly conditions. Chemical Research in Chinese Universities, 2015, 31, 674-679.	1.3	3
65	Removal of organic pollutants from red water by magnetic-activated coke. Desalination and Water Treatment, 2015, 54, 2710-2722.	1.0	17
66	PAH/DAS covalently cross-linked layer-by-layer multilayers: a "nano-net" superstratum immobilizes nanoparticles and remains permeable to small molecules. Soft Matter, 2015, 11, 6859-6865.	1.2	10
67	Combined Photothermal and Surface-Enhanced Raman Spectroscopy Effect from Spiky Noble Metal Nanoparticles Wrapped within Graphene-Polymer Layers: Using Layer-by-layer Modified Reduced Graphene Oxide as Reactive Precursors. ACS Applied Materials & Interfaces, 2015, 7, 19353-19361.	4.0	34
68	Cu ₂ O immobilized on reduced graphene oxide for the photocatalytic treatment of red water produced from the manufacture of TNT. Desalination and Water Treatment, 2015, 54, 540-546.	1.0	14
69	Novel Method for the Fabrication of Flexible Film with Oriented Arrays of Graphene in Poly(vinylidene fluoride) Tj ETQq1 1 0.784314 rgBT /Over 10567-10573.	1.5	89
70	Novel polyaluminum ferric chloride composite coagulant from Bayer red mud for wastewater treatment. Desalination and Water Treatment, 2014, 52, 7645-7653.	1.0	14
71	A facile method for the fabrication of covalently linked PAH/PSS layer-by-layer films. RSC Advances, 2014, 4, 5683.	1.7	22
72	Interfacial Modification of Magnetic Montmorillonite (MMT) Using Covalently Assembled LbL Multilayers. Journal of Physical Chemistry C, 2014, 118, 20357-20362.	1.5	15

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73	A facile method for the construction of stable polymer–inorganic nanoparticle composite multilayers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11329.	5.2	29
74	A Facile Method to Prepare Molecularly Imprinted Layer-by-Layer Nanostructured Multilayers Using Postinfiltration and a Subsequent Photo-Cross-Linking Strategy. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8308-8313.	4.0	35
75	Effects of surface properties of red mud on interactions with <i>Escherichia coli</i> . <i>Journal of Materials Research</i> , 2013, 28, 2332-2338.	1.2	3
76	A Supramolecular System for the Electrochemically Controlled Release of Cells. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12233-12237.	7.2	119
77	Facile Method for the Fabrication of Robust Polyelectrolyte Multilayers by Post-Photo-Cross-Linking of Azido Groups. <i>Langmuir</i> , 2012, 28, 7096-7100.	1.6	55
78	A transparent polyvinylidene fluoride–hexafluoropropylene composite film with enhanced energy conversion and energy preservation performance. <i>IET Nanodielectrics</i> , 0, , .	2.0	1
79	Synergistically active piezoelectrical H ₂ O ₂ production composite film achieved from catalytically inert PVDF–HFP matrix and SiO ₂ fillers. <i>Chemistry - an Asian Journal</i> , 0, , .	1.7	3