

# Shu-Hong Yu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

805 papers	75,546 citations	149 h-index	241 g-index
872 ext. papers	84,999 ext. citations	11.5 avg, IF	8.49 L-index

#	Paper	IF	Citations
805	Anti-Swelling, Robust and Adhesive Extracellular Matrix-Mimicking Hydrogel Used as Intraoral Dressing.. <i>Advanced Materials</i> , <b>2022</b> , e2200115	24	8
804	All-in-one hollow nanoformulations enabled imaging-guided Mn-amplified chemophototherapy against hepatocellular carcinoma. <i>Nano Today</i> , <b>2022</b> , 43, 101382	17.9	0
803	Biomimetic discontinuous Bouligand structural design enables high-performance nanocomposites. <i>Matter</i> , <b>2022</b> ,	12.7	3
802	Sustainable Multiscale High-Haze Transparent Cellulose Fiber Film via a Biomimetic Approach <b>2022</b> , 4, 87-92		5
801	Extremely Fast-charging lithium ion battery enabled by dual-gradient structure design.. <i>Science Advances</i> , <b>2022</b> , 8, eabm6624	14.3	6
800	CO <sub>2</sub> -to-methane electroreduction gets a helping hand. <i>Matter</i> , <b>2022</b> , 5, 1337-1339	12.7	
799	General Synthesis and Solution Processing of Metal-Organic Framework Nanofibers.. <i>Advanced Materials</i> , <b>2022</b> , e2202504	24	3
798	Emerging Bioinspired Artificial Woods. <i>Advanced Materials</i> , <b>2021</b> , 33, e2001086	24	20
797	Artificial Nacre with High Toughness Amplification Factor: Residual Stress-Engineering Sparks Enhanced Extrinsic Toughening Mechanisms.. <i>Advanced Materials</i> , <b>2021</b> , e2108267	24	3
796	Double-Layer Nacre-Inspired Polyimide-Mica Nanocomposite Films with Excellent Mechanical Stability for LEO Environmental Conditions. <i>Advanced Materials</i> , <b>2021</b> , e2105299	24	3
795	Non-Bonding Interaction of Neighboring Fe and Ni Single-Atom Pairs on MOF-Derived N-Doped Carbon for Enhanced CO Electroreduction. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 19417-19424	16.4	55
794	Self-Powered Flexible Electrochromic Smart Window. <i>Nano Letters</i> , <b>2021</b> , 21, 9976-9982	11.5	11
793	A Highly Compressible and Stretchable Carbon Spring for Smart Vibration and Magnetism Sensors (Adv. Mater. 39/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170308	24	
792	Manipulating Nanowire Assemblies toward Multicolor Transparent Electrochromic Device. <i>Nano Letters</i> , <b>2021</b> , 21, 9203-9209	11.5	5
791	Plant Cellulose Nanofiber-Derived Structural Material with High-Density Reversible Interaction Networks for Plastic Substitute. <i>Nano Letters</i> , <b>2021</b> , 21, 8999-9004	11.5	4
790	Detecting and curing the voids in nacre-inspired layered MXene films. <i>Science Bulletin</i> , <b>2021</b> , 67, 347-347	10.6	0
789	Catalyzed Growth for Atomic-Precision Colloidal Chalcogenide Nanowires and Heterostructures: Progress and Perspective. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10695-10705	6.4	1

788	Formation of magnesium calcite mesocrystals in the inorganic environment only by using Ca <sup>2+</sup> and Mg <sup>2+</sup> and its biological implications. <i>Science China Materials</i> , <b>2021</b> , 64, 999-1006	7.1	1
787	Strong and tough graphene papers constructed with pyrene-containing small molecules via $\pi$ -H-bonding synergistic interactions. <i>Science China Materials</i> , <b>2021</b> , 64, 1206-1218	7.1	1
786	Strengthening and Toughening Hierarchical Nanocellulose Humidity-Mediated Interface. <i>ACS Nano</i> , <b>2021</b> , 15, 1310-1320	16.7	28
785	Sustainable Double-Network Structural Materials for Electromagnetic Shielding. <i>Nano Letters</i> , <b>2021</b> , 21, 2532-2537	11.5	23
784	Bioresorbable Scaffolds with Biocatalytic Chemotherapy and In Situ Microenvironment Modulation for Postoperative Tissue Repair. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008732	15.6	10
783	Scallion-Inspired Graphene Scaffold Enabled High Rate Lithium Metal Battery. <i>Nano Letters</i> , <b>2021</b> , 21, 2347-2355	11.5	8
782	Highly stretchable, soft and sticky PDMS elastomer by solvothermal polymerization process. <i>Nano Research</i> , <b>2021</b> , 14, 3636-3642	10	6
781	One-Dimensional Superlattice Heterostructure Library. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 7013-7020	16.4	6
780	Joule-heated carbonized melamine sponge for high-speed absorption of viscous oil spills. <i>Nano Research</i> , <b>2021</b> , 14, 2697-2702	10	4
779	Sustainable Cellulose-Nanofiber-Based Hydrogels. <i>ACS Nano</i> , <b>2021</b> , 15, 7889-7898	16.7	16
778	Large-Area Crystalline Zeolitic Imidazolate Framework Thin Films. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 14243-14249	16.4	6
777	Large-Area Crystalline Zeolitic Imidazolate Framework Thin Films. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 14124-14130	16.4	6
776	Microplastics release from victuals packaging materials during daily usage. <i>EcoMat</i> , <b>2021</b> , 3, e12107	9.4	9
775	Clean and Affordable Hydrogen Fuel from Alkaline Water Splitting: Past, Recent Progress, and Future Prospects. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007100	24	144
774	Biomimetic Design and Mass Production of Sustainable Multiscale Cellulose Fibers-Based Hierarchical Filter Materials for Protective Clothing. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100193	6.8	2
773	Adhesive aero-hydrogel hybrid conductor assembled from silver nanowire architectures. <i>Science China Materials</i> , <b>2021</b> , 64, 2868-2876	7.1	3
772	Microchemical Engineering in a 3D Ordered Channel Enhances Electrocatalysis. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12600-12608	16.4	8
771	A Magneto-Heated Ferrimagnetic Sponge for Continuous Recovery of Viscous Crude Oil. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100074	24	10

770	Rational Design of Core-Shell ZnTe@N-Doped Carbon Nanowires for High Gravimetric and Volumetric Alkali Metal Ion Storage. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006425	15.6	29
769	Efficient encapsulation of water soluble inorganic and organic actives in melamine formaldehyde based microcapsules for control release into an aqueous environment. <i>Chemical Engineering Science</i> , <b>2021</b> , 229, 116103	4.4	5
768	Integration of Pd nanoparticles with engineered pore walls in MOFs for enhanced catalysis. <i>Chem</i> , <b>2021</b> , 7, 686-698	16.2	40
767	Precise fabrication of single-atom alloy co-catalyst with optimal charge state for enhanced photocatalysis. <i>National Science Review</i> , <b>2021</b> , 8, nwaa224	10.8	55
766	Regenerated isotropic wood. <i>National Science Review</i> , <b>2021</b> , 8, nwaa230	10.8	16
765	Nacreous aramid-mica bulk materials with excellent mechanical properties and environmental stability. <i>IScience</i> , <b>2021</b> , 24, 101971	6.1	6
764	Nacre-Inspired Sustainable Coatings with Remarkable Fire-Retardant and Energy-Saving Cooling Performance <b>2021</b> , 3, 243-248		13
763	Soft chemistry of metastable metal chalcogenide nanomaterials. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 6671-6683	58.5	7
762	Bio-Inspired Lotus-Fiber-like Spiral Hydrogel Bacterial Cellulose Fibers. <i>Nano Letters</i> , <b>2021</b> , 21, 952-958	11.5	31
761	Multicore closely packed ultrathin-MnO <sub>2</sub> @N-doped carbon-gear yolk-shell micro-nanostructures as highly efficient sulfur hosts for LiS batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 2276-2283	13	7
760	Templating Synthesis of Metal-Organic Framework Nanofiber Aerogels and Their Derived Hollow Porous Carbon Nanofibers for Energy Storage and Conversion. <i>Small</i> , <b>2021</b> , 17, e2004140	11	13
759	A multi-responsive healable supercapacitor. <i>Nature Communications</i> , <b>2021</b> , 12, 4297	17.4	25
758	Boosting photoelectrochemical efficiency by near-infrared-active lattice-matched morphological heterojunctions. <i>Nature Communications</i> , <b>2021</b> , 12, 4296	17.4	4
757	Sustainable 3D Structural Binder for High-Performance Supercapacitor by Biosynthesis Process. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2105070	15.6	5
756	A Highly Compressible and Stretchable Carbon Spring for Smart Vibration and Magnetism Sensors. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102724	24	12
755	A Magneto-Heated Ferrimagnetic Sponge for Continuous Recovery of Viscous Crude Oil (Adv. Mater. 36/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170279	24	1
754	An all-natural bioinspired structural material for plastic replacement. <i>Nature Communications</i> , <b>2020</b> , 11, 5401	17.4	50
753	Lightweight, tough, and sustainable cellulose nanofiber-derived bulk structural materials with low thermal expansion coefficient. <i>Science Advances</i> , <b>2020</b> , 6, eaaz1114	14.3	88

752	Unconventional chemical graphitization and functionalization of graphene oxide toward nanocomposites by degradation of ZnSe[DETA]0.5 hybrid nanobelts. <i>Science China Materials</i> , <b>2020</b> , 63, 1878-1888	7.1	0
751	Lotus-Inspired Evaporator with Janus Wettability and Bimodal Pores for Solar Steam Generation. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100074	6.1	23
750	Accelerating Chemo- and Regioselective Hydrogenation of Alkynes over Bimetallic Nanoparticles in a Metal-Organic Framework. <i>ACS Catalysis</i> , <b>2020</b> , 10, 7753-7762	13.1	40
749	Discontinuous fibrous Bouligand architecture enabling formidable fracture resistance with crack orientation insensitivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 15465-15472	11.5	35
748	Electrochemical CO <sub>2</sub> -to-CO conversion: electrocatalysts, electrolytes, and electrolyzers. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15458-15478	13	54
747	Nanocasting SiO <sub>2</sub> into metal-organic frameworks imparts dual protection to high-loading Fe single-atom electrocatalysts. <i>Nature Communications</i> , <b>2020</b> , 11, 2831	17.4	173
746	Boosting Catalysis of Pd Nanoparticles in MOFs by Pore Wall Engineering: The Roles of Electron Transfer and Adsorption Energy. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000041	24	78
745	Protecting Copper Oxidation State via Intermediate Confinement for Selective CO Electroreduction to C Fuels. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6400-6408	16.4	162
744	Smart Cellulose-Based Electronic Skin with Humidity-Driven Dynamic Performance. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 87-89	14.8	2
743	Origin of Batch Hydrothermal Fluid Behavior and Its Influence on Nanomaterial Synthesis. <i>Matter</i> , <b>2020</b> , 2, 1270-1282	12.7	16
742	Radial Nanowire Assemblies under Rotating Magnetic Field Enabled Efficient Charge Separation. <i>Nano Letters</i> , <b>2020</b> , 20, 2763-2769	11.5	7
741	Sustainable Wood-Based Hierarchical Solar Steam Generator: A Biomimetic Design with Reduced Vaporization Enthalpy of Water. <i>Nano Letters</i> , <b>2020</b> , 20, 5699-5704	11.5	84
740	Regulating silver nanowire size enables efficient photoelectric conversion. <i>Science China Chemistry</i> , <b>2020</b> , 63, 1046-1052	7.9	3
739	Structure-property relationship of assembled nanowire materials. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 2881-2903	7.8	11
738	Sandwich-Type Polyoxometalate Mediates Cobalt Diselenide for Hydrogen Evolution in Acidic Electrolyte. <i>ChemNanoMat</i> , <b>2020</b> , 6, 1164-1168	3.5	4
737	Highly disordered cobalt oxide nanostructure induced by sulfur incorporation for efficient overall water splitting. <i>Nano Energy</i> , <b>2020</b> , 71, 104652	17.1	55
736	Activating proper inflammation for wound-healing acceleration via mesoporous silica nanoparticle tissue adhesive. <i>Nano Research</i> , <b>2020</b> , 13, 373-379	10	15
735	Ferrimagnetic mPEG-PHEP copolymer micelles loaded with iron oxide nanocubes and emodin for enhanced magnetic hyperthermia-chemotherapy. <i>National Science Review</i> , <b>2020</b> , 7, 723-736	10.8	23

734	Regioselective magnetization in semiconducting nanorods. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 192-197	28.7	25
733	Biomimetic Difunctional Carbon-Nanotube-Based Aerogels for Efficient Steam Generation. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 4690-4698	5.6	16
732	Tumor microenvironment-activatable Fe-doxorubicin preloaded amorphous CaCO nanoformulation triggers ferroptosis in target tumor cells. <i>Science Advances</i> , <b>2020</b> , 6, eaax1346	14.3	87
731	Real-Time Visualization of Solid-Phase Ion Migration Kinetics on Nanowire Monolayer. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7968-7975	16.4	7
730	A superspreading layering process enabled high performance layered nanocomposites. <i>Science China Chemistry</i> , <b>2020</b> , 63, 873-874	7.9	0
729	Preface to the Interfacial Science Developments at the Chinese Academy of Sciences Virtual Special Issue. <i>Langmuir</i> , <b>2020</b> , 36, 12087	4	
728	A General and Programmable Synthesis of Graphene-Based Composite Aerogels by a Melamine-Sponge-Templated Hydrothermal Process. <i>CCS Chemistry</i> , <b>2020</b> , 2, 1-12	7.2	8
727	Shape characterization and discrimination of single nanoparticles using solid-state nanopores. <i>Analyst, The</i> , <b>2020</b> , 145, 1657-1666	5	8
726	High-Curvature Transition-Metal Chalcogenide Nanostructures with a Pronounced Proximity Effect Enable Fast and Selective CO Electroreduction. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 8706-8712	16.4	57
725	Ultrastable PtCo/CoO-SiO Nanocomposite with Active Lattice Oxygen for Superior Catalytic Activity toward CO Oxidation. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 1218-1226	5.1	19
724	Regulating the Coordination Environment of MOF-Templated Single-Atom Nickel Electrocatalysts for Boosting CO Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2705-2709	16.4	227
723	Temperature-Invariant Superelastic and Fatigue Resistant Carbon Nanofiber Aerogels. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904331	24	48
722	High-Curvature Transition-Metal Chalcogenide Nanostructures with a Pronounced Proximity Effect Enable Fast and Selective CO <sub>2</sub> Electroreduction. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 8784-8790	3.6	21
721	Ordering Nanostructures Enhances Electrocatalytic Reactions. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 888-897	14.8	8
720	Single crystalline quaternary sulfide nanobelts for efficient solar-to-hydrogen conversion. <i>Nature Communications</i> , <b>2020</b> , 11, 5194	17.4	27
719	Embedding Ultrafine Metal Oxide Nanoparticles in Monolayered Metal-Organic Framework Nanosheets Enables Efficient Electrocatalytic Oxygen Evolution. <i>ACS Nano</i> , <b>2020</b> , 14, 1971-1981	16.7	57
718	Ultra-Strong, Ultra-Tough, Transparent, and Sustainable Nanocomposite Films for Plastic Substitute. <i>Matter</i> , <b>2020</b> , 3, 1308-1317	12.7	45
717	Single-Atom Electrocatalysts from Multivariate Metal-Organic Frameworks for Highly Selective Reduction of CO at Low Pressures. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20589-20595	16.4	111

716	Metal-Organic Frameworks: Boosting Catalysis of Pd Nanoparticles in MOFs by Pore Wall Engineering: The Roles of Electron Transfer and Adsorption Energy (Adv. Mater. 30/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070225	24	9
715	Printable elastic silver nanowire-based conductor for washable electronic textiles. <i>Nano Research</i> , <b>2020</b> , 13, 2879-2884	10	12
714	Band Structure Engineering toward Low-Onset-Potential Photoelectrochemical Hydrogen Production <b>2020</b> , 2, 1555-1560		8
713	Bimetallic nickel-molybdenum/tungsten nanoalloys for high-efficiency hydrogen oxidation catalysis in alkaline electrolytes. <i>Nature Communications</i> , <b>2020</b> , 11, 4789	17.4	63
712	Axially Segmented Semiconductor Heteronanowires. <i>Accounts of Materials Research</i> , <b>2020</b> , 1, 126-136	7.5	5
711	Unconventional dual-vacancies in nickel diselenide-graphene nanocomposite for high-efficiency oxygen evolution catalysis. <i>Nano Research</i> , <b>2020</b> , 13, 3292-3298	10	10
710	Sponge-templating synthesis of sandwich-like reduced graphene oxide nanoplates with confined gold nanoparticles and their enhanced stability for solar evaporation. <i>Science China Materials</i> , <b>2020</b> , 63, 1957-1965	7.1	9
709	Bioinspired hierarchical helical nanocomposite macrofibers based on bacterial cellulose nanofibers. <i>National Science Review</i> , <b>2020</b> , 7, 73-83	10.8	31
708	In situ assembly of magnetic nanocrystals/graphene oxide nanosheets on tumor cells enables efficient cancer therapy. <i>Nano Research</i> , <b>2020</b> , 13, 1133-1140	10	4
707	Anti-photocorrosive photoanode with RGO/PdS as hole extraction layer. <i>Science China Materials</i> , <b>2020</b> , 63, 1939-1947	7.1	4
706	Recycling Valuable Elements from the Chemical Synthesis Process of Nanomaterials: A Sustainable View <b>2019</b> , 1, 541-548		9
705	Unconventional CN vacancies suppress iron-leaching in Prussian blue analogue pre-catalyst for boosted oxygen evolution catalysis. <i>Nature Communications</i> , <b>2019</b> , 10, 2799	17.4	116
704	Diatomite derived hierarchical hybrid anode for high performance all-solid-state lithium metal batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 2482	17.4	66
703	Biomimetic Carbon Tube Aerogel Enables Super-Elasticity and Thermal Insulation. <i>Chem</i> , <b>2019</b> , 5, 1871-1882	16.2	67
702	Ordered Nanostructure Enhances Electrocatalytic Performance by Directional Micro-Electric Field. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10729-10735	16.4	24
701	Hard Carbon Aerogels: Superelastic Hard Carbon Nanofiber Aerogels (Adv. Mater. 23/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970168	24	2
700	Sustainable Separators for High-Performance Lithium Ion Batteries Enabled by Chemical Modifications. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902023	15.6	27
699	Switching Co/N/C Catalysts for Heterogeneous Catalysis and Electrocatalysis by Controllable Pyrolysis of Cobalt Porphyrin. <i>IScience</i> , <b>2019</b> , 15, 282-290	6.1	12

698	Anisotropic and self-healing hydrogels with multi-responsive actuating capability. <i>Nature Communications</i> , <b>2019</b> , 10, 2202	17.4	154
697	"Superaerophobic" Nickel Phosphide Nanoarray Catalyst for Efficient Hydrogen Evolution at Ultrahigh Current Densities. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7537-7543	16.4	233
696	Mass-production of flexible and transparent Te-Au nylon SERS substrate with excellent mechanical stability. <i>Nano Research</i> , <b>2019</b> , 12, 1483-1488	10	4
695	MoS <sub>2</sub> nanoplates assembled on electrospun polyacrylonitrile-metal organic framework-derived carbon fibers for lithium storage. <i>Nano Energy</i> , <b>2019</b> , 61, 104-110	17.1	51
694	A Highly Stretchable and Real-Time Healable Supercapacitor. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900573	24	132
693	Superelastic Hard Carbon Nanofiber Aerogels. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900651	24	88
692	In Situ Seed-Mediated High-Yield Synthesis of Copper Nanowires on Large Scale. <i>Langmuir</i> , <b>2019</b> , 35, 4364-4369	4	8
691	Recent Advances on Controlled Synthesis and Engineering of Hollow Alloyed Nanotubes for Electrocatalysis. <i>Advanced Materials</i> , <b>2019</b> , 31, e1803503	24	50
690	Mass Production of Nanowire-Nylon Flexible Transparent Smart Windows for PM Capture. <i>Science</i> , <b>2019</b> , 12, 333-341	6.1	30
689	Scaled-Up Synthesis of Amorphous NiFeMo Oxides and Their Rapid Surface Reconstruction for Superior Oxygen Evolution Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 15772-15777	16.4	200
688	Scaled-Up Synthesis of Amorphous NiFeMo Oxides and Their Rapid Surface Reconstruction for Superior Oxygen Evolution Catalysis. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 15919-15924	3.6	41
687	Superior Biomimetic Nacreous Bulk Nanocomposites by a Multiscale Soft-Rigid Dual-Network Interfacial Design Strategy. <i>Matter</i> , <b>2019</b> , 1, 412-427	12.7	38
686	Multifunctional Bilayer Nanocomposite Guided Bone Regeneration Membrane. <i>Matter</i> , <b>2019</b> , 1, 770-781	12.7	23
685	Bio-Inspired Synthesis of Hematite Mesocrystals by Using Xonotlite Nanowires as Growth Modifiers and Their Improved Oxygen Evolution Activity. <i>ChemSusChem</i> , <b>2019</b> , 12, 3747-3752	8.3	5
684	Bioinspired Unidirectional Silk Fibroin-Silver Compound Nanowire Composite Scaffold via Interface-Mediated In Situ Synthesis. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14152-14156	16.4	10
683	Bioinspired Unidirectional Silk Fibroin-Silver Compound Nanowire Composite Scaffold via Interface-Mediated In Situ Synthesis. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14290-14294	3.6	5
682	Synthesis of ultrathin Bi <sub>2</sub> Se <sub>3</sub> nanosheets/graphene nanocomposite with defects/vacancies-dependent transient photocurrent performance. <i>Nano Energy</i> , <b>2019</b> , 64, 103877	17.1	14
681	Dopant-tuned stabilization of intermediates promotes electrosynthesis of valuable C <sub>3</sub> products. <i>Nature Communications</i> , <b>2019</b> , 10, 4807	17.4	13

680	Nanowire Genome: A Magic Toolbox for 1D Nanostructures. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902807	24	29
679	Rektilbild: Bioinspired Unidirectional Silk Fibroin/Silver Compound Nanowire Composite Scaffold via Interface-Mediated In Situ Synthesis (Angew. Chem. 40/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14528-14528	3.6	0
678	Turning on Visible-Light Photocatalytic C-H Oxidation over Metal-Organic Frameworks by Introducing Metal-to-Cluster Charge Transfer. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19110-19117	16.4	148
677	A Nacre-Inspired Separator Coating for Impact-Tolerant Lithium Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1905711	24	34
676	Janus Mesosstructures for Simultaneous Multivariable Gases Sensors. <i>Matter</i> , <b>2019</b> , 1, 1110-1111	12.7	
675	Natural Nanofibrous Cellulose-Derived Solid Acid Catalysts. <i>Research</i> , <b>2019</b> , 2019, 6262719	7.8	7
674	Synthesis of PdS-Mediated Polydymite Heteronanorods and Their Long-Range Activation for Enhanced Water Electroreduction. <i>Research</i> , <b>2019</b> , 2019, 8078549	7.8	7
673	Polymorphic cobalt diselenide as extremely stable electrocatalyst in acidic media via a phase-mixing strategy. <i>Nature Communications</i> , <b>2019</b> , 10, 5338	17.4	40
672	A general aerosol-assisted biosynthesis of functional bulk nanocomposites. <i>National Science Review</i> , <b>2019</b> , 6, 64-73	10.8	30
671	Bio-inspired low-tortuosity carbon host for high-performance lithium-metal anode. <i>National Science Review</i> , <b>2019</b> , 6, 247-256	10.8	32
670	Few-Nanometer-Sized HgS/PbI Quantum Dots Enabled by Strontium Substitution and Iodide Passivation for Efficient Red-Light Emitting Diodes. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 2069-2079	16.4	138
669	Electrospun metal-organic framework nanoparticle fibers and their derived electrocatalysts for oxygen reduction reaction. <i>Nano Energy</i> , <b>2019</b> , 55, 226-233	17.1	120
668	Stability and Reactivity: Positive and Negative Aspects for Nanoparticle Processing. <i>Chemical Reviews</i> , <b>2018</b> , 118, 3209-3250	68.1	173
667	Fire-Retardant and Thermally Insulating Phenolic-Silica Aerogels. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4538-4542	16.4	145
666	A Bioinspired Interface Design for Improving the Strength and Electrical Conductivity of Graphene-Based Fibers. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706435	24	110
665	Fire-Retardant and Thermally Insulating Phenolic-Silica Aerogels. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 4628-4632	16.4	6
664	Charged Nanowire-Directed Growth of Amorphous Calcium Carbonate Nanosheets in a Mixed Solvent for Biomimetic Composite Films. <i>Langmuir</i> , <b>2018</b> , 34, 5813-5820	4	2
663	Wood-Inspired High-Performance Ultrathick Bulk Battery Electrodes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706745	17.4	136

662	MoS <sub>2</sub> -Nanosheet-Decorated Carbon Nanofiber Composites Enable High-Performance Cathode Materials for Mg Batteries. <i>ChemElectroChem</i> , <b>2018</b> , 5, 995-995	4.3	
661	Templating Synthesis of Mesoporous FeC-Encapsulated Fe-N-Doped Carbon Hollow Nanospindles for Electrocatalysis. <i>Langmuir</i> , <b>2018</b> , 34, 4952-4961	4	36
660	Seeded Mineralization Leads to Hierarchical CaCO <sub>3</sub> Thin Coatings on Fibers for Oil/Water Separation Applications. <i>Langmuir</i> , <b>2018</b> , 34, 2942-2951	4	22
659	Synthesis of Sub-2 nm Iron-Doped NiSe <sub>2</sub> Nanowires and Their Surface-Confined Oxidation for Oxygen Evolution Catalysis. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 4084-4088	3.6	21
658	Ce-Doping to Modulate Photoluminescence Kinetics for Efficient CsPbBr <sub>3</sub> Nanocrystals Based Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3626-3634	16.4	314
657	Synthesis of Sub-2 nm Iron-Doped NiSe Nanowires and Their Surface-Confined Oxidation for Oxygen Evolution Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4020-4024	16.4	100
656	MoS <sub>2</sub> -Nanosheet-Decorated Carbon Nanofiber Composites Enable High-Performance Cathode Materials for Mg Batteries. <i>ChemElectroChem</i> , <b>2018</b> , 5, 996-1001	4.3	14
655	Stability and protection of nanowire devices in air. <i>Nano Research</i> , <b>2018</b> , 11, 3353-3361	10	11
654	Potassium Ion Assisted Synthesis of Organic-Inorganic Hybrid Perovskite Nanobelts for Stable and Flexible Photodetectors. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701029	8.1	29
653	Stable gadolinium based nanoscale lyophilized injection for enhanced MR angiography with efficient renal clearance. <i>Biomaterials</i> , <b>2018</b> , 158, 74-85	15.6	28
652	Coupling cobalt sulfide nanosheets with cadmium sulfide nanoparticles for highly efficient visible-light-driven photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 103-110	21.8	49
651	Metal Halide Perovskite Supercrystals: Gold-Bromide Complex Triggered Assembly of CsPbBr <sub>3</sub> Nanocubes. <i>Langmuir</i> , <b>2018</b> , 34, 595-602	4	19
650	Stable Lithium Storage in Nitrogen-Doped Carbon-Coated Ferric Oxide Yolk-Shell Nanospindles with Preserved Hollow Space. <i>ChemPlusChem</i> , <b>2018</b> , 83, 99-107	2.8	5
649	Writing Theory and Modeling Papers for Langmuir: The Good, the Bad, and the Ugly. <i>Langmuir</i> , <b>2018</b> , 34, 1817-1818	4	2
648	Low Cost Metal Carbide Nanocrystals as Binding and Electrocatalytic Sites for High Performance Li-S Batteries. <i>Nano Letters</i> , <b>2018</b> , 18, 1035-1043	11.5	222
647	Highly Luminescent Inks: Aggregation-Induced Emission of Copper-Iodine Hybrid Clusters. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 7106-7110	16.4	59
646	Reaktitelbild: Integration of Plasmonic Effects and Schottky Junctions into Metal-Organic Framework Composites: Steering Charge Flow for Enhanced Visible-Light Photocatalysis (Angew. Chem. 4/2018). <i>Angewandte Chemie</i> , <b>2018</b> , 130, 1132-1132	3.6	1
645	NiMoO <sub>4</sub> nanorod-derived composite catalysts for efficient alkaline water-to-hydrogen conversion via urea electrolysis. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1890-1897	35.4	335

644	Highly Tough Bioinspired Ternary Hydrogels Synergistically Reinforced by Graphene/Xonotlite Network. <i>Small</i> , <b>2018</b> , 14, e1800673	11	7
643	High Voltage Magnesium-ion Battery Enabled by Nanocluster MgBi Alloy Anode in Noncorrosive Electrolyte. <i>ACS Nano</i> , <b>2018</b> , 12, 5856-5865	16.7	59
642	Graphene Thin Films by Noncovalent-Interaction-Driven Assembly of Graphene Monolayers for Flexible Supercapacitors. <i>CheM</i> , <b>2018</b> , 4, 896-910	16.2	37
641	Calcium carbonate-doxorubicin@silica-indocyanine green nanospheres with photo-triggered drug delivery enhance cell killing in drug-resistant breast cancer cells. <i>Nano Research</i> , <b>2018</b> , 11, 3385-3395	10	15
640	Selective oxidation mediated synthesis of unique Se x Te y nanotubes, their assembled thin films and photoconductivity. <i>Nano Research</i> , <b>2018</b> , 11, 665-675	10	4
639	Porous nitrogen-doped carbon monoliths derived from biopolymer-structured liquid precursors. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 255, 53-60	5.3	13
638	Transparent and Flexible Nacre-Like Hybrid Films of Aminoclays and Carboxylated Cellulose Nanofibrils. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1703277	15.6	41
637	Dip-coating processed sponge-based electrodes for stretchable Zn-MnO <sub>2</sub> batteries. <i>Nano Research</i> , <b>2018</b> , 11, 1554-1562	10	35
636	Partially oxidized Ni nanoparticles supported on Ni-N co-doped carbon nanofibers as bifunctional electrocatalysts for overall water splitting. <i>Nano Energy</i> , <b>2018</b> , 51, 286-293	17.1	100
635	Transforming ground mica into high-performance biomimetic polymeric mica film. <i>Nature Communications</i> , <b>2018</b> , 9, 2974	17.4	57
634	Biomimetic twisted plywood structural materials. <i>National Science Review</i> , <b>2018</b> , 5, 703-714	10.8	44
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631	Real-Time Probing of Nanowire Assembly Kinetics at the Air-Water Interface by In Situ Synchrotron X-Ray Scattering. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8262-8266	3.6	3
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629	SiO Encapsulated in Graphene Bubble Film: An Ultrastable Li-Ion Battery Anode. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707430	24	183
628	From Metal-Organic Frameworks to Single-Atom Fe Implanted N-doped Porous Carbons: Efficient Oxygen Reduction in Both Alkaline and Acidic Media. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8525-8529	16.4	462
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624	Bioinspired polymeric woods. <i>Science Advances</i> , <b>2018</b> , 4, eaat7223	14.3	135
623	Hierarchically structured Co <sub>3</sub> O <sub>4</sub> @carbon porous fibers derived from electrospun ZIF-67/PAN nanofibers as anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12962-12968	13	92
622	Steering post-C <sub>1</sub> coupling selectivity enables high efficiency electroreduction of carbon dioxide to multi-carbon alcohols. <i>Nature Catalysis</i> , <b>2018</b> , 1, 421-428	36.5	348
621	Doping-induced structural phase transition in cobalt diselenide enables enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , <b>2018</b> , 9, 2533	17.4	244
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617	Strong and stiff Ag nanowire-chitosan composite films reinforced by Ag <sub>2</sub> S covalent bonds. <i>Nano Research</i> , <b>2018</b> , 11, 410-419	10	22
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613	A Janus Nickel Cobalt Phosphide Catalyst for High-Efficiency Neutral-pH Water Splitting. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15671-15675	3.6	64
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611	Copper nanocavities confine intermediates for efficient electrosynthesis of C <sub>3</sub> alcohol fuels from carbon monoxide. <i>Nature Catalysis</i> , <b>2018</b> , 1, 946-951	36.5	205
610	Competitive Adsorption between a Polymer and Its Monomeric Analog Enables Precise Modulation of Nanowire Synthesis. <i>CheM</i> , <b>2018</b> , 4, 2451-2462	16.2	10
609	Grafting Cobalt Diselenide on Defective Graphene for Enhanced Oxygen Evolution Reaction. <i>IScience</i> , <b>2018</b> , 7, 145-153	6.1	29

608	Synergistic Effect of Granular Seed Substrates and Soluble Additives in Structural Control of Prismatic CaCO Thin Films. <i>Langmuir</i> , <b>2018</b> , 34, 11126-11138	4	3
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459	Hydrothermal Synthesis of Unique Hollow Hexagonal Prismatic Pencils of Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> · n H <sub>2</sub> O: A New Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 10787-91	16.4	104
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282	Inside Back Cover: One-Pot Controlled Synthesis of Hexagonal-Prismatic Cu <sub>1.94</sub> S-ZnS, Cu <sub>1.94</sub> S-ZnS-Cu <sub>1.94</sub> S, and Cu <sub>1.94</sub> S-ZnS-Cu <sub>1.94</sub> S Heteronanostructures (Angew. Chem. Int. Ed. 26/2012). <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 6535-6535	16.4	
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36	Pressure-Controlled Fabrication of Stibnite Nanorods by the Solvothermal Decomposition of a Simple Single-Source Precursor. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 2924-2929	9.6	97
35	Direct Fabrication of Ferrite MFe <sub>2</sub> O <sub>4</sub> (M = Zn, Mg)/Fe Composite Thin Films by Soft Solution Processing. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 3805-3810	9.6	94
34	Hydrothermal evolution of the thiourea-cerium(III) nitrate system: formation of cerium hydroxycarbonate and hydroxysulfate. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 4380-2	5.1	21
33	A solvothermal decomposition process for fabrication and particle sizes control of Bi <sub>2</sub> S <sub>3</sub> nanowires. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 4157-4162	2.5	88

32	Convenient Solvothermal Synthesis and Phase Control of Nickel Selenides with Different Morphologies. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 2302-2304	9.6	41
31	Preparation of nanocrystalline silver by the method of liquid-solid arc discharge combined with hydrothermal treatment. <i>Materials Research Bulletin</i> , <b>1999</b> , 34, 1683-1688	5.1	8
30	Synthesis and Phase Transformation of IB-VIA Nonstoichiometric Nanocrystalline Tellurides by a Hydrothermal-Reduction Process. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 146, 387-389	3.3	8
29	Novel Solvothermal Fabrication of CdS <sub>x</sub> Se <sub>1-x</sub> Nanowires. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 147, 637-640	3.3	18
28	Synthesis and Characterization of Nanocrystalline Boron Nitride. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 148, 325-328	3.3	48
27	A novel in situ simultaneous polymerization/hydrolysis technique for fabrication of polyacrylamide/semiconductor MS (M = Cd, Zn, Pb) nanocomposites. <i>Chemical Communications</i> , <b>1999</b> , 1229-1230	5.8	21
26	A Novel in Situ Simultaneous Copolymerization/Decomposition Technique for Fabrication of Poly(acrylamide-co-styrene)-Semiconductor CdE (E = S, Se) Nanorod Nanocomposites. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 3411-3413	9.6	16
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24	Controllable synthesis of nanocrystalline CdS with different morphologies and particle sizes by a novel solvothermal process. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 1283-1287		138
23	Formation of Silver Nanowires by a Novel Solid-Liquid Phase Arc Discharge Method. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 545-546	9.6	163
22	A Convenient Ultraviolet Irradiation Technique for Fabrication of Silver-polymer Nanocomposites. <i>Chemistry Letters</i> , <b>1999</b> , 28, 677-678	1.7	11
21	A New Solvothermal-Reduction Pathway to Nanocrystalline MTe (M = Zn, Pb). <i>Chemistry Letters</i> , <b>1999</b> , 28, 839-840	1.7	10
20	Hydrothermal Preparation and Characterization of Nanocrystalline Powder of Indium Sulfide. <i>Materials Research Bulletin</i> , <b>1998</b> , 33, 717-721	5.1	62
19	Benzene-thermal synthesis and characterization of ultrafine powders of antimony sulfide. <i>Materials Research Bulletin</i> , <b>1998</b> , 33, 1207-1211	5.1	27
18	Hydrothermal preparation and characterization of rod-like ultrafine powders of bismuth sulfide. <i>Materials Research Bulletin</i> , <b>1998</b> , 33, 1661-1666	5.1	50
17	Solvent thermal synthesis and characterization of ultrafine powder of bismuth sulfide. <i>Materials Letters</i> , <b>1998</b> , 35, 116-119	3.3	55
16	Benzene-thermal synthesis and optical properties of CdS nanocrystalline. <i>Scripta Materialia</i> , <b>1998</b> , 10, 1307-1316		11
15	A Novel Solventothermal Synthetic Route to Nanocrystalline CdE (E = S, Se, Te) and Morphological Control. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 2309-2312	9.6	182

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13	A novel organothermal reduction process for producing nanocrystalline Ni <sub>2</sub> P with a circular-shaped flake morphology. <i>Journal of Materials Research</i> , <b>1998</b> , 13, 3365-3367	2.5	3
12	Solvothermal Preparation of Silver Chalcogenides Ag <sub>2</sub> E (E = S, Se, Te). <i>Chemistry Letters</i> , <b>1998</b> , 27, 1111-1112	1.1	5
11	Ordering silver nanowires for chiroptical activity. <i>Science China Materials</i> , 1	7.1	0
10	Radially Porous Nanocomposite Scaffolds with Enhanced Capability for Guiding Bone Regeneration In Vivo. <i>Advanced Functional Materials</i> , 2110931	15.6	3
9	Edible, Ultrastrong, and Microplastic-Free Bacterial Cellulose-Based Straws by Biosynthesis. <i>Advanced Functional Materials</i> , 2111713	15.6	10
8	Single-Crystalline SnSe <sub>2</sub> Nanosheets with Enhanced Lithium Storage Properties. <i>Energy &amp; Fuels</i> , 4.1	3	
7	Biomimetic Lamellar Chitosan Scaffold for Soft Gingival Tissue Regeneration. <i>Advanced Functional Materials</i> , 2105348	15.6	7
6	Bio-inspired synthesis of transition-metal oxide hybrid ultrathin nanosheets for enhancing the cycling stability in lithium-ion batteries. <i>Nano Research</i> , 1	10	1
5	Electrochemically Activated Surface Reconstruction of PdCu Nanotubes for Improved Ethanol Oxidation Electrocatalysis. <i>Small Structures</i> , 2100216	8.7	1
4	Lead-Free Halide CsAg <sub>2</sub> I <sub>3</sub> with 1D Electronic Structure and High Stability for Ultraviolet Photodetector. <i>Advanced Functional Materials</i> , 2202894	15.6	1
3	A General and Programmable Synthesis of Graphene-Based Composite Aerogels by a Melamine-Sponge-Templated Hydrothermal Process. <i>CCS Chemistry</i> , 1-12	7.2	
2	Drug Protein-Stabilized Biomimetic Amorphous Mineral Nanoparticles as Superior Drug Carriers. <i>Advanced Functional Materials</i> , 2202928	15.6	
1	Nacre-Inspired Nanocomposite Films with Enhanced Mechanical and Barrier Properties by Self-Assembly of Poly(Lactic Acid) Coated Mica Nanosheets. <i>Advanced Functional Materials</i> , 2202221	15.6	6