

Zhengzhong Shao

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.

311
papers

16,447
citations

71
h-index

116
g-index

331
ext. papers

19,252
ext. citations

9.7
avg, IF

7.14
L-index

#	Paper	IF	Citations
311	System Engineering Enhances Photoelectrochemical CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1689-1700	3.8	1
310	Direct functionalization of natural silks through continuous force-reeling technique. <i>Chemical Engineering Journal</i> , 2022 , 435, 134901	14.7	1
309	Electrochemical conversion of C1 molecules to sustainable fuels in solid oxide electrolysis cells. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 92-103	11.3	1
308	Efficient CO Electroreduction to Ethanol by Cu Sn Catalyst.. <i>Small Methods</i> , 2022 , 6, e2101334	12.8	5
307	Non-metallic T-MRI agents based on conjugated polymers.. <i>Nature Communications</i> , 2022 , 13, 1994	17.4	1
306	Polarization Engineering of Covalent Triazine Frameworks for Highly Efficient Photosynthesis of Hydrogen Peroxide from Molecular Oxygen and Water.. <i>Advanced Materials</i> , 2022 , e2110266	24	6
305	Enhancement of the Mechanical Properties of Poly(lactic acid)/Epoxidized Soybean Oil Blends by the Addition of 3-Aminophenylboronic Acid. <i>ACS Omega</i> , 2022 , 7, 17841-17848	3.9	
304	Electron Localization and Lattice Strain Induced by Surface Lithium Doping Enable Ampere-Level Electrosynthesis of Formate from CO. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25741-25745	16.4	7
303	Electron Localization and Lattice Strain Induced by Surface Lithium Doping Enable Ampere-Level Electrosynthesis of Formate from CO ₂ . <i>Angewandte Chemie</i> , 2021 , 133, 25945	3.6	1
302	Double sulfur vacancies by lithium tuning enhance CO electroreduction to n-propanol. <i>Nature Communications</i> , 2021 , 12, 1580	17.4	43
301	Atomically-dispersed catalyst by solid-liquid phase transition for CO ₂ electroreduction. <i>Science China Chemistry</i> , 2021 , 64, 1111-1112	7.9	
300	Electrochemical nitrogen fixation via bimetallic Sn-Ti sites on defective titanium oxide catalysts. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 242-247	9.3	6
299	Designing Copper-Based Catalysts for Efficient Carbon Dioxide Electroreduction. <i>Advanced Materials</i> , 2021 , 33, e2005798	24	36
298	Mechanism of Mechanical Training-Induced Self-Reinforced Viscoelastic Behavior of Highly Hydrated Silk Materials. <i>Biomacromolecules</i> , 2021 , 22, 2189-2196	6.9	3
297	Promoting N electroreduction to ammonia by fluorine-terminating TiCT MXene. <i>Nano Convergence</i> , 2021 , 8, 14	9.2	5
296	Crystallization, Mechanical, and Antimicrobial Properties of Diallyl Cyanuric Derivative-Grafted Polypropylene. <i>ACS Omega</i> , 2021 , 6, 12794-12800	3.9	1
295	Electrocatalytic Methane Oxidation Greatly Promoted by Chlorine Intermediates. <i>Angewandte Chemie</i> , 2021 , 133, 17538-17543	3.6	2

294	Electrocatalytic Methane Oxidation Greatly Promoted by Chlorine Intermediates. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17398-17403	16.4	8
293	Poly(vinyl alcohol) Hydrogels with Integrated Toughness, Conductivity, and Freezing Tolerance Based on Ionic Liquid/Water Binary Solvent Systems. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29008-29020	9.5	12
292	Electrochemical Methane Conversion. <i>Small Structures</i> , 2021 , 2, 2100037	8.7	4
291	Understanding the Continuous Dynamic Mechanical Behavior of Animal Silk. <i>Macromolecules</i> , 2021 , 54, 249-258	5.5	4
290	Heterogeneous Electrocatalysts for CO ₂ Reduction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1034-1044	6.1	8
289	Development of a Dual-drug-loaded Silk Fibroin Hydrogel and Study on Its Drugs Release Behaviors. <i>Acta Chimica Sinica</i> , 2021 , 79, 1023	3.3	0
288	An interference screw made using a silk fibroin-based bulk material with high content of hydroxyapatite for anterior cruciate ligament reconstruction in a rabbit model. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 5352-5364	7.3	3
287	Silk-based hybrid microfibrillar mats as guided bone regeneration membranes. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 2025-2032	7.3	12
286	In-situ regrowth constructed magnetic coupling 1D/2D Fe assembly as broadband and high-efficient microwave absorber. <i>Chemical Engineering Journal</i> , 2021 , 415, 128951	14.7	15
285	Lithiation-Enabled High-Density Nitrogen Vacancies Electrocatalyze CO to C Products. <i>Advanced Materials</i> , 2021 , 33, e2103150	24	8
284	Electrocatalytic Reactions for Converting CO ₂ to Value-Added Products. <i>Small Science</i> , 2021 , 1, 2100043		21
283	Silk-based pressure/temperature sensing bimodal ionotronic skin with stimulus discriminability and low temperature workability. <i>Chemical Engineering Journal</i> , 2021 , 422, 130091	14.7	12
282	Promoting electrocatalytic carbon monoxide reduction to ethylene on copper-polypyrrole interface. <i>Journal of Colloid and Interface Science</i> , 2021 , 600, 847-853	9.3	2
281	Efficient carboxylation of styrene and carbon dioxide by single-atomic copper electrocatalyst. <i>Journal of Colloid and Interface Science</i> , 2021 , 601, 378-384	9.3	6
280	Lithium Vacancy-Tuned [CuO] Sites for Selective CO Electroreduction to C Products.. <i>Small</i> , 2021 , e2106433	14.3	3
279	Water-Resistant Zein-Based Adhesives. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7668-7679	8.3	15
278	Fluorous-Core Nanoparticle-Embedded Hydrogel Synthesized via Tandem Photo-Controlled Radical Polymerization: Facilitating the Separation of Perfluorinated Alkyl Substances from Water. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24319-24327	9.5	17
277	Mechanical properties and toughening mechanisms of natural silkworm silks and their composites. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 110, 103942	4.1	5

276	Intelligent Silk Fibroin Ionotronic Skin for Temperature Sensing. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000430	6.8	23
275	Ru-doped, oxygen-vacancy-containing CeO ₂ nanorods toward N ₂ electroreduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7229-7234	13	22
274	Colorless Silk/Copper Sulfide Hybrid Fiber and Fabric with Spontaneous Heating Property under Sunlight. <i>Biomacromolecules</i> , 2020 , 21, 1596-1603	6.9	10
273	Fast cooling induced grain-boundary-rich copper oxide for electrocatalytic carbon dioxide reduction to ethanol. <i>Journal of Colloid and Interface Science</i> , 2020 , 570, 375-381	9.3	16
272	Enhanced Nitrate-to-Ammonia Activity on Copper-Nickel Alloys via Tuning of Intermediate Adsorption. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5702-5708	16.4	192
271	Direct Observation of Native Silk Fibroin Conformation in Silk Gland of Silkworm. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1874-1879	5.5	9
270	Artificial ligament made from silk protein/Laponite hybrid fibers. <i>Acta Biomaterialia</i> , 2020 , 106, 102-113	10.8	22
269	Boosting CO ₂ Electroreduction to CH ₄ via Tuning Neighboring Single-Copper Sites. <i>ACS Energy Letters</i> , 2020 , 5, 1044-1053	20.1	154
268	Physically Cross-Linked Silk Fibroin-Based Tough Hydrogel Electrolyte with Exceptional Water Retention and Freezing Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25353-25362	9.5	24
267	Oxygen vacancies enhanced cooperative electrocatalytic reduction of carbon dioxide and nitrite ions to urea. <i>Journal of Colloid and Interface Science</i> , 2020 , 577, 109-114	9.3	27
266	Effect of stress on the molecular structure and mechanical properties of supercontracted spider dragline silks. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 168-176	7.3	6
265	Preparation and characterization of antibacterial poly(lactic acid) nanocomposites with N-halamine modified silica. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 1468-1477	7.9	16
264	A silk-based high impact composite for the core decompression of the femoral head. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 9734-9743	7.3	3
263	Precise tuning of heteroatom positions in polycyclic aromatic hydrocarbons for electrocatalytic nitrogen fixation. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 623-629	9.3	2
262	Understanding humidity-induced actuation in <i>Antheraea pernyi</i> silks. <i>Giant</i> , 2020 , 3, 100029	5.6	7
261	Structural Changes in Spider Dragline Silk after Repeated Supercontraction-Stretching Processes. <i>Biomacromolecules</i> , 2020 , 21, 5306-5314	6.9	3
260	Preparing 3D-printable silk fibroin hydrogels with robustness by a two-step crosslinking method.. <i>RSC Advances</i> , 2020 , 10, 27225-27234	3.7	7
259	Synthesis of novel multi-hydroxyl -halamine precursors based on barbituric acid and their applications in antibacterial poly(ethylene terephthalate) (PET) materials. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 8695-8701	7.3	9

258	Enhanced compatibility between poly(lactic acid) and poly (butylene adipate-co-terephthalate) by incorporation of N-halamine epoxy precursor. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 460-471	7.9	8
257	Electron-Deficient Cu Sites on Cu ₃ Ag ₁ Catalyst Promoting CO ₂ Electroreduction to Alcohols. <i>Advanced Energy Materials</i> , 2020 , 10, 2001987	21.8	43
256	Multi-scale magnetic coupling of Fe@SiO ₂ @C-Ni yolk@triple-shell microspheres for broadband microwave absorption. <i>Nanoscale</i> , 2019 , 11, 17270-17276	7.7	44
255	Selective carbon dioxide electroreduction to ethylene and ethanol by core-shell copper/cuprous oxide. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 426-431	9.3	28
254	Understanding Secondary Structures of Silk Materials via Micro- and Nano-Infrared Spectroscopies. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 3161-3183	5.5	25
253	The regenerated silk fibroin hydrogel with designed architecture bioprinted by its microhydrogel. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 4328-4337	7.3	21
252	Electron distribution tuning of fluorine-doped carbon for ammonia electrosynthesis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16979-16983	13	35
251	Achieving Efficient CO Electrochemical Reduction on Tunable In(OH)-Coupled CuO-Derived Hybrid Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22346-22351	9.5	17
250	Dual-loaded, long-term sustained drug releasing and thixotropic hydrogel for localized chemotherapy of cancer. <i>Biomaterials Science</i> , 2019 , 7, 2975-2985	7.4	15
249	Enhanced N-doping in mesoporous carbon for efficient electrocatalytic CO ₂ conversion. <i>Nano Research</i> , 2019 , 12, 2324-2329	10	63
248	A novel 3D-printed silk fibroin-based scaffold facilitates tracheal epithelium proliferation in vitro. <i>Journal of Biomaterials Applications</i> , 2019 , 34, 3-11	2.9	14
247	Facile Dissolution of Zein Using a Common Solvent Dimethyl Sulfoxide. <i>Langmuir</i> , 2019 , 35, 6640-6649	4	9
246	Morphology and Properties of a New Biodegradable Material Prepared from Zein and Poly(butylene adipate-terephthalate) by Reactive Blending. <i>ACS Omega</i> , 2019 , 4, 5609-5616	3.9	11
245	A Mono-cuboctahedral Series of Gold Nanoclusters: Photoluminescence Origin, Large Enhancement, Wide Tunability, and Structure-Property Correlation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5314-5325	16.4	83
244	Integrating tough <i>Antheraea pernyi</i> silk and strong carbon fibres for impact-critical structural composites. <i>Nature Communications</i> , 2019 , 10, 3786	17.4	27
243	One-dimensional Nanomaterial Electrocatalysts for CO Fixation. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3969-3980	4.5	10
242	Pea Protein/Gold Nanocluster/Indocyanine Green Ternary Hybrid for Near-Infrared Fluorescence/Computed Tomography Dual-Modal Imaging and Synergistic Photodynamic/Photothermal Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 4799-4807	5.5	16
241	Doping strain induced bi-Ti pairs for efficient N activation and electrocatalytic fixation. <i>Nature Communications</i> , 2019 , 10, 2877	17.4	173

240	Electrolyte Driven Highly Selective CO ₂ Electroreduction at Low Overpotentials. <i>ACS Catalysis</i> , 2019 , 9, 10440-10447	13.1	23
239	Cryogenic toughness of natural silk and a proposed structurefunction relationship. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2507-2513	7.8	11
238	Defective graphene for electrocatalytic CO reduction. <i>Journal of Colloid and Interface Science</i> , 2019 , 534, 332-337	9.3	44
237	Chondrocytes cultured in silk-based biomaterials maintain function and cell morphology. <i>International Journal of Artificial Organs</i> , 2019 , 42, 31-41	1.9	3
236	NbO ₂ Electrocatalyst Toward 32% Faradaic Efficiency for N ₂ Fixation. <i>Small Methods</i> , 2019 , 3, 1800386	12.8	77
235	Nanowire arrays restore vision in blind mice. <i>Nature Communications</i> , 2018 , 9, 786	17.4	58
234	Aqueous electrocatalytic N ₂ reduction under ambient conditions. <i>Nano Research</i> , 2018 , 11, 2992-3008	10	170
233	Application of far-infrared spectroscopy to the structural identification of protein materials. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11643-11648	3.6	6
232	Understanding the Mechanical Properties and Structure Transition of Antheraea pernyi Silk Fiber Induced by Its Contraction. <i>Biomacromolecules</i> , 2018 , 19, 1999-2006	6.9	18
231	Size-controllable dual drug-loaded silk fibroin nanospheres through a facile formation process. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1179-1186	7.3	17
230	Topotactic Engineering of Ultrathin 2D Nonlayered Nickel Selenides for Full Water Electrolysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1702704	21.8	138
229	Fabricating highly luminescent solid hybrids based on silicon nanoparticles: a simple, versatile and green method. <i>Nanoscale</i> , 2018 , 10, 10250-10255	7.7	12
228	Silk Fibroin Acts as a Self-Emulsifier to Prepare Hierarchically Porous Silk Fibroin Scaffolds through Emulsion-Ice Dual Templates. <i>ACS Omega</i> , 2018 , 3, 3396-3405	3.9	8
227	Unconventional morphologies of CoO nanocrystals via controlled oxidation of cobalt oleate precursors. <i>Chemical Communications</i> , 2018 , 54, 3867-3870	5.8	2
226	Porous Three-Dimensional Silk Fibroin Scaffolds for Tracheal Epithelial Regeneration and. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 2977-2985	5.5	15
225	Single-Atomic Cu with Multiple Oxygen Vacancies on Ceria for Electrocatalytic CO ₂ Reduction to CH ₄ . <i>ACS Catalysis</i> , 2018 , 8, 7113-7119	13.1	323
224	Mesoporous tin oxide for electrocatalytic CO reduction. <i>Journal of Colloid and Interface Science</i> , 2018 , 531, 564-569	9.3	32
223	Nanostructured Copper-Based Electrocatalysts for CO ₂ Reduction. <i>Small Methods</i> , 2018 , 2, 1800121	12.8	84

222	Automated in Vivo Nanosensing of Breath-Borne Protein Biomarkers. <i>Nano Letters</i> , 2018 , 18, 4716-4726	11.5	16
221	Silk fibroin and hydroxyapatite segmented coating enhances graft ligamentization and osseointegration processes of the polyethylene terephthalate artificial ligament in vitro and in vivo. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 5738-5749	7.3	15
220	Electrocatalysis: Topotactic Engineering of Ultrathin 2D Nonlayered Nickel Selenides for Full Water Electrolysis (Adv. Energy Mater. 14/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870064	21.8	2
219	Plant Protein-Directed Synthesis of Luminescent Gold Nanocluster Hybrids for Tumor Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 83-90	9.5	49
218	Electronic Tuning of Co, Ni-Based Nanostructured (Hydr)oxides for Aqueous Electrocatalysis. <i>Advanced Functional Materials</i> , 2018 , 28, 1804886	15.6	53
217	Environmentally responsive composite films fabricated using silk nanofibrils and silver nanowires. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12940-12947	7.1	10
216	Bandgap Engineered Polypyrrole-Polydopamine Hybrid with Intrinsic Raman and Photoacoustic Imaging Contrasts. <i>Nano Letters</i> , 2018 , 18, 7485-7493	11.5	22
215	Efficient solar-driven electrocatalytic CO reduction in a redox-medium-assisted system. <i>Nature Communications</i> , 2018 , 9, 5003	17.4	64
214	Oxygen Vacancy Tuning toward Efficient Electrocatalytic CO ₂ Reduction to C ₂ H ₄ . <i>Small Methods</i> , 2018 , 3, 1800449	12.8	51
213	Fabrication of Air-Stable and Conductive Silk Fibroin Gels. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38466-38475	9.5	29
212	Sub-5 nm SnO ₂ chemically coupled hollow carbon spheres for efficient electrocatalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20121-20127	13	48
211	Electrocatalytic CO ₂ Reduction: 2D Assembly of Confined Space toward Enhanced CO ₂ Electroreduction (Adv. Energy Mater. 25/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870112	21.8	1
210	A Robust, Resilient, and Multi-Functional Soy Protein-Based Hydrogel. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13730-13738	8.3	13
209	2D Assembly of Confined Space toward Enhanced CO ₂ Electroreduction. <i>Advanced Energy Materials</i> , 2018 , 8, 1801230	21.8	35
208	Tailoring interface of lead-halide perovskite solar cells. <i>Nano Research</i> , 2017 , 10, 1471-1497	10	35
207	Band-aligned C ₃ N ₄ /S ₃ x/2 stabilizes CdS/CuInGaS ₂ photocathodes for efficient water reduction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3167-3171	13	8
206	Soy protein-based polyethylenimine hydrogel and its high selectivity for copper ion removal in wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4163-4171	13	113
205	A simple semi-quantitative approach studying the in vivo degradation of regenerated silk fibroin scaffolds with different pore sizes. <i>Materials Science and Engineering C</i> , 2017 , 79, 161-167	8.3	12

204	A facile fabrication of silk/MoS hybrids for Photothermal therapy. <i>Materials Science and Engineering C</i> , 2017 , 79, 123-129	8.3	23
203	Enhancing Mechanical Properties of Silk Fibroin Hydrogel through Restricting the Growth of Sheet Domains. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17489-17498	9.5	127
202	Cu, Co-Embedded N-Enriched Mesoporous Carbon for Efficient Oxygen Reduction and Hydrogen Evolution Reactions. <i>Advanced Energy Materials</i> , 2017 , 7, 1700193	21.8	339
201	Conformation and self-assembly changes of isomeric peptide amphiphiles influenced by switching tyrosine in the sequences. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5189-5195	7.3	6
200	Hierarchically tubular nitrogen-doped carbon structures for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13634-13638	13	18
199	Bridged-multi-octahedral cobalt oxide nanocrystals with a Co-terminated surface as an oxygen evolution and reduction electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7416-7422	13	20
198	CuCoOx/FeOOH Core-Shell Nanowires as an Efficient Bifunctional Oxygen Evolution and Reduction Catalyst. <i>ACS Energy Letters</i> , 2017 , 2, 2498-2505	20.1	92
197	Selective Etching of Nitrogen-Doped Carbon by Steam for Enhanced Electrochemical CO ₂ Reduction. <i>Advanced Energy Materials</i> , 2017 , 7, 1701456	21.8	146
196	Enhancing the Mechanical Toughness of Epoxy-Resin Composites Using Natural Silk Reinforcements. <i>Scientific Reports</i> , 2017 , 7, 11939	4.9	27
195	Tuning of CO Reduction Selectivity on Metal Electrocatalysts. <i>Small</i> , 2017 , 13, 1701809	11	136
194	Electrocatalysts: Cu, Co-Embedded N-Enriched Mesoporous Carbon for Efficient Oxygen Reduction and Hydrogen Evolution Reactions (Adv. Energy Mater. 17/2017). <i>Advanced Energy Materials</i> , 2017 , 7,	21.8	1
193	Precise correlation of macroscopic mechanical properties and microscopic structures of animal silks-using <i>Antheraea pernyi</i> silkworm silk as an example. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6042-6048	7.3	16
192	Design of Modular Peptide Surfactants and Their Surface Activity. <i>Langmuir</i> , 2017 , 33, 7957-7967	4	12
191	Unconventional mesoporous single crystalline NiO by synergistically controlled evaporation and hydrolysis. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23840-23843	13	4
190	Interfacial Films Formed by a Biosurfactant Modularized with a Silken Tail. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14658-14667	3.8	4
189	Spray-drying of milk for oxygen evolution electrocatalyst and solar water splitting. <i>Journal of Colloid and Interface Science</i> , 2017 , 487, 118-122	9.3	8
188	Nitrogen-Doped Core-Sheath Carbon Nanotube Array for Highly Stretchable Supercapacitor. <i>Advanced Energy Materials</i> , 2017 , 7, 1601814	21.8	132
187	Colloidal nanocrystals for electrochemical reduction reactions. <i>Journal of Colloid and Interface Science</i> , 2017 , 485, 308-327	9.3	14

186	Superb Alkaline Hydrogen Evolution and Simultaneous Electricity Generation by Pt-Decorated Ni ₃ N Nanosheets. <i>Advanced Energy Materials</i> , 2017 , 7, 1601390	21.8	176
185	Exploration of the nature of a unique natural polymer-based thermosensitive hydrogel. <i>Soft Matter</i> , 2016 , 12, 492-9	3.6	10
184	Dramatic Enhancement of Graphene Oxide/Silk Nanocomposite Membranes: Increasing Toughness, Strength, and Young's modulus via Annealing of Interfacial Structures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24962-73	9.5	63
183	Silicon Nanoparticles with Surface Nitrogen: 90% Quantum Yield with Narrow Luminescence Bandwidth and the Ligand Structure Based Energy Law. <i>ACS Nano</i> , 2016 , 10, 8385-93	16.7	120
182	Energy Storage: Achieving High Aqueous Energy Storage via Hydrogen-Generation Passivation (Adv. Mater. 35/2016). <i>Advanced Materials</i> , 2016 , 28, 7808-7808	24	
181	Achieving High Aqueous Energy Storage via Hydrogen-Generation Passivation. <i>Advanced Materials</i> , 2016 , 28, 7626-32	24	42
180	Egg-Derived Mesoporous Carbon Microspheres as Bifunctional Oxygen Evolution and Oxygen Reduction Electrocatalysts. <i>Advanced Energy Materials</i> , 2016 , 6, 1600794	21.8	133
179	Interlaced NiS ₂ /MoS ₂ nanoflake-nanowires as efficient hydrogen evolution electrocatalysts in basic solutions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13439-13443	13	188
178	One-step synthesis of soy protein/graphene nanocomposites and their application in photothermal therapy. <i>Materials Science and Engineering C</i> , 2016 , 68, 798-804	8.3	16
177	Homologous metal-free electrocatalysts grown on three-dimensional carbon networks for overall water splitting in acidic and alkaline media. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12878-12883	13	60
176	Structure and properties of various hybrids fabricated by silk nanofibrils and nanohydroxyapatite. <i>Nanoscale</i> , 2016 , 8, 20096-20102	7.7	28
175	CuCo Hybrid Oxides as Bifunctional Electrocatalyst for Efficient Water Splitting. <i>Advanced Functional Materials</i> , 2016 , 26, 8555-8561	15.6	197
174	Epitaxial Growth of Lattice-Mismatched Core-Shell TiO ₂ @MoS ₂ for Enhanced Lithium-Ion Storage. <i>Small</i> , 2016 , 12, 2792-9	11	59
173	Co/Ni-Based Nanotubes/Nanosheets as Efficient Water Splitting Electrocatalysts. <i>Advanced Energy Materials</i> , 2016 , 6, 1501661	21.8	206
172	Hydrogel Assembly with Hierarchical Alignment by Balancing Electrostatic Forces. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500687	4.6	68
171	Enhancing Perovskite Solar Cell Performance by Interface Engineering Using CH ₃ NH ₃ PbBr _{0.9} I _{0.1} Quantum Dots. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8581-7	16.4	194
170	Glass transitions in native silk fibres studied by dynamic mechanical thermal analysis. <i>Soft Matter</i> , 2016 , 12, 5926-36	3.6	33
169	Capping agent-free highly dispersed noble metal nanoparticles supported in ordered mesoporous carbon with short channels and their catalytic applications. <i>RSC Advances</i> , 2016 , 6, 61064-61072	3.7	11

168	Separator-Integrated, Reversely Connectable Symmetric Lithium-Ion Battery. <i>Small</i> , 2016 , 12, 1091-7	11	11
167	Sol-Gel Transition of Regenerated Silk Fibroins in Ionic Liquid/Water Mixtures. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 12-18	5.5	20
166	Myriophyllum-like hierarchical TiN@Ni ₃ N nanowire arrays for bifunctional water splitting catalysts. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5713-5718	13	112
165	Enhancing the Gelation and Bioactivity of Injectable Silk Fibroin Hydrogel with Laponite Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9619-28	9.5	90
164	Intelligent Janus nanoparticles for intracellular real-time monitoring of dual drug release. <i>Nanoscale</i> , 2016 , 8, 6754-60	7.7	38
163	Robust Protein Hydrogels from Silkworm Silk. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1500-1506	15.06	53
162	Three-dimensional WS ₂ nanosheet networks for H ₂ O ₂ produced for cell signaling. <i>Nanoscale</i> , 2016 , 8, 5786-92	7.7	18
161	Incorporation of well-dispersed sub-5-nm graphitic pencil nanodots into ordered mesoporous frameworks. <i>Nature Chemistry</i> , 2016 , 8, 171-8	17.6	128
160	Core-Shell Silicon@Mesoporous TiO ₂ Heterostructure: Towards Solar-Powered Photoelectrochemical Conversion. <i>ChemNanoMat</i> , 2016 , 2, 647-651	3.5	4
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158	Enhanced Fibroblast Cellular Ligamentization Process to Polyethylene Terephthalate Artificial Ligament by Silk Fibroin Coating. <i>Artificial Organs</i> , 2016 , 40, 385-93	2.6	17
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151	Soy protein-directed one-pot synthesis of gold nanomaterials and their functional conductive devices. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 3643-3650	7.3	21

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148	Multi-responsive polyethylene-polyamine/gelatin hydrogel induced by non-covalent interactions. <i>RSC Advances</i> , 2016 , 6, 48661-48665	3.7	5
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144	Insights into Silk Formation Process: Correlation of Mechanical Properties and Structural Evolution during Artificial Spinning of Silk Fibers. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1992-2000	5.5	46
143	Carbon-Coated Co(3+)-Rich Cobalt Selenide Derived from ZIF-67 for Efficient Electrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20534-9	9.5	152
142	From Water Oxidation to Reduction: Homologous Ni ₁₀ Based Nanowires as Complementary Water Splitting Electrocatalysts. <i>Advanced Energy Materials</i> , 2015 , 5, 1402031	21.8	372
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