

Tao Chen

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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.

180
papers

9,350
citations

54
h-index

91
g-index

190
ext. papers

11,022
ext. citations

10.1
avg, IF

6.34
L-index

#	Paper	IF	Citations
180	All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15829-15832	16.4	700
179	Self-Templated Formation of Interlaced Carbon Nanotubes Threaded Hollow CoS Nanoboxes for High-Rate and Heat-Resistant Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12710-12715	16.4	364
178	A Hierarchically Nanostructured Composite of MnO ₂ /Conjugated Polymer/Graphene for High-Performance Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2011 , 1, 736-741	21.8	255
177	Significant Improvement of Dye-Sensitized Solar Cell Performance Using Simple Phenothiazine-Based Dyes. <i>Chemistry of Materials</i> , 2013 , 25, 2146-2153	9.6	231
176	Highly Efficient Retention of Polysulfides in "Sea Urchin"-Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2017 , 17, 437-444	11.5	194
175	Enhancement of low energy sunlight harvesting in dye-sensitized solar cells using plasmonic gold nanorods. <i>Energy and Environmental Science</i> , 2012 , 5, 9444	35.4	189
174	Controlled assembly of eccentrically encapsulated gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11858-9	16.4	182
173	Strong Capillarity, Chemisorption, and Electrocatalytic Capability of Crisscrossed Nanostraws Enabled Flexible, High-Rate, and Long-Cycling Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2018 , 12, 4868-4876	16.7	177
172	Porous-Shell Vanadium Nitride Nanobubbles with Ultrahigh Areal Sulfur Loading for High-Capacity and Long-Life Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2017 , 17, 7839-7846	11.5	172
171	Hotspot-induced transformation of surface-enhanced Raman scattering fingerprints. <i>ACS Nano</i> , 2010 , 4, 3087-94	16.7	172
170	Cerium Oxide Nanocrystal Embedded Bimodal Micromesoporous Nitrogen-Rich Carbon Nanospheres as Effective Sulfur Host for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2017 , 11, 7274-7283	16.7	167
169	Hydrothermal deposition of antimony selenosulfide thin films enables solar cells with 10% efficiency. <i>Nature Energy</i> , 2020 , 5, 587-595	62.3	162
168	(Gold core)/(titania shell) nanostructures for plasmon-enhanced photon harvesting and generation of reactive oxygen species. <i>Energy and Environmental Science</i> , 2014 , 7, 3431-3438	35.4	161
167	Walnut-Like Multicore-Shell MnO Encapsulated Nitrogen-Rich Carbon Nanocapsules as Anode Material for Long-Cycling and Soft-Packed Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1800003	15.6	148
166	Polymer-encapsulated gold-nanoparticle dimers: facile preparation and catalytical application in guided growth of dimeric ZnO-nanowires. <i>Nano Letters</i> , 2008 , 8, 2643-7	11.5	147
165	In Situ Thermal Synthesis of Inlaid Ultrathin MoS ₂ /Graphene Nanosheets as Electrocatalysts for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2016 , 28, 5733-5742	9.6	145
164	Scalable Routes to Janus AuBiO ₂ and Ternary AgAuBiO ₂ Nanoparticles. <i>Chemistry of Materials</i> , 2010 , 22, 3826-3828	9.6	145

163	Low-Temperature In Situ Amino Functionalization of TiO Nanoparticles Sharpens Electron Management Achieving over 21% Efficient Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1806095	24	136
162	Development of polymer-encapsulated metal nanoparticles as surface-enhanced Raman scattering probes. <i>Small</i> , 2009 , 5, 198-202	11	129
161	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. <i>Nanoscale</i> , 2017 , 9, 1237-1243	7.7	121
160	Interface Functionalization of Photoelectrodes with Graphene for High Performance Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 5245-5250	15.6	120
159	Highly Branched VS Nanodendrites with 1D Atomic-Chain Structure as a Promising Cathode Material for Long-Cycling Magnesium Batteries. <i>Advanced Materials</i> , 2018 , 30, e1802563	24	119
158	Template Synthesis of CuInS ₂ Nanocrystals from In ₂ S ₃ Nanoplates and Their Application as Counter Electrodes in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 5949-5956	9.6	117
157	Reducing the symmetry of bimetallic Au@Ag nanoparticles by exploiting eccentric polymer shells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9537-9	16.4	117
156	MoS ₂ -Based All-Purpose Fibrous Electrode and Self-Powering Energy Fiber for Efficient Energy Harvesting and Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1601208	21.8	110
155	Engineering "hot" nanoparticles for surface-enhanced Raman scattering by embedding reporter molecules in metal layers. <i>Small</i> , 2012 , 8, 246-51	11	109
154	A fast chemical approach towards SbS film with a large grain size for high-performance planar heterojunction solar cells. <i>Nanoscale</i> , 2017 , 9, 3386-3390	7.7	108
153	Perovskite photovoltaics: a high-efficiency newcomer to the solar cell family. <i>Nanoscale</i> , 2014 , 6, 12287-97	104	
152	Development of antimony sulfide selenide Sb ₂ (S, Se) ₃ -based solar cells. <i>Journal of Energy Chemistry</i> , 2018 , 27, 713-721	12	100
151	Mechanical nanosprings: induced coiling and uncoiling of ultrathin Au nanowires. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11920-2	16.4	92
150	Solution-Processable Ionic Liquid as an Independent or Modifying Electron Transport Layer for High-Efficiency Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34464-34473	9.5	90
149	Light-triggered reversible self-assembly of gold nanoparticle oligomers for tunable SERS. <i>Langmuir</i> , 2015 , 31, 1164-71	4	90
148	Conformational engineering of co-sensitizers to retard back charge transfer for high-efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11553	13	88
147	Fabrication of polymer nanocavities with tailored openings. <i>ACS Nano</i> , 2009 , 3, 3469-74	16.7	85
146	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO Nanoflakes for High-Performance Rechargeable Magnesium Batteries. <i>ACS Nano</i> , 2018 , 12, 12492-12502	16.7	85

145	Molecular engineering of simple phenothiazine-based dyes to modulate dye aggregation, charge recombination, and dye regeneration in highly efficient dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2014 , 20, 6300-8	4.8	83
144	n-Type Doping of SbS Light-Harvesting Films Enabling High-Efficiency Planar Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30314-30321	9.5	68
143	New phenothiazine-based dyes for efficient dye-sensitized solar cells: Positioning effect of a donor group on the cell performance. <i>Journal of Power Sources</i> , 2013 , 243, 253-259	8.9	68
142	Facile fabrication of triple-layer (Au@Ag)@polypyrrole core-shell and (Au@H ₂ O)@polypyrrole yolk-shell nanostructures. <i>Chemical Communications</i> , 2009 , 1653-4	5.8	68
141	Successive surface engineering of TiO ₂ compact layers via dual modification of fullerene derivatives affording hysteresis-suppressed high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1724-1733	13	67
140	Thermoelectric Bi ₂ Te ₃ -improved charge collection for high-performance dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 6294-6298	35.4	67
139	Selenium-Graded Sb ₂ (S _{1-x} Se _x) ₃ for Planar Heterojunction Solar Cell Delivering a Certified Power Conversion Efficiency of 5.71%. <i>Solar Rrl</i> , 2017 , 1, 1700017	7.1	66
138	Ultrafast self-trapping of photoexcited carriers sets the upper limit on antimony trisulfide photovoltaic devices. <i>Nature Communications</i> , 2019 , 10, 4540	17.4	66
137	Few-layer MoSe ₂ possessing high catalytic activity towards iodide/tri-iodide redox shuttles. <i>Scientific Reports</i> , 2014 , 4, 4063	4.9	66
136	Engineering hollow mesoporous silica nanocontainers with molecular switches for continuous self-healing anticorrosion coating. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9510-9516	13	65
135	Manipulating the Electrical Properties of Sb ₂ (S,Se) ₃ Film for High-Efficiency Solar Cell. <i>Advanced Energy Materials</i> , 2020 , 10, 2002341	21.8	64
134	Alkali Metals Doping for High-Performance Planar Heterojunction Sb ₂ S ₃ Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800272	7.1	62
133	Crystallinity and defect state engineering in organo-lead halide perovskite for high-efficiency solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3806-3812	13	60
132	Interfacial engineering for high efficiency solution processed Sb ₂ Se ₃ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 189, 5-10	6.4	60
131	All-polymer particulate slurry batteries. <i>Nature Communications</i> , 2019 , 10, 2513	17.4	57
130	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2047-2052	13	56
129	SnS ₂ nanosheet-based microstructures with high adsorption capabilities and visible light photocatalytic activities. <i>RSC Advances</i> , 2015 , 5, 24640-24648	3.7	54
128	VO as Hole Transporting Material for Efficient All Inorganic SbS Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27098-27105	9.5	54

127	Nonconjugated Polymer Poly(vinylpyrrolidone) as an Efficient Interlayer Promoting Electron Transport for Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32957-32964	9.5	54
126	Bulk heterojunction gifts bismuth-based lead-free perovskite solar cells with record efficiency. <i>Nano Energy</i> , 2020 , 68, 104362	17.1	54
125	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. <i>Nanoscale</i> , 2016 , 8, 17911-17918	7.7	54
124	Promising Sb ₂ (S,Se) ₃ Solar Cells with High Open Voltage by Application of a TiO ₂ /CdS Double Buffer Layer. <i>Solar Rrl</i> , 2018 , 2, 1800208	7.1	54
123	Acetate Salts as Nonhalogen Additives To Improve Perovskite Film Morphology for High-Efficiency Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15333-40	9.5	53
122	Graphene-. <i>Solar Energy</i> , 2012 , 86, 2041-2048	6.8	53
121	Hybrid ZnO nanorod-polymer brush hierarchically nanostructured substrate for sensitive antibody microarrays. <i>Advanced Materials</i> , 2015 , 27, 181-5	24	51
120	Direct solution deposition of device quality Sb ₂ S ₃ -xSex films for high efficiency solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 183, 52-58	6.4	49
119	Phase Engineering of Perovskite Materials for High-Efficiency Solar Cells: Rapid Conversion of CH ₃ NH ₃ PbI ₃ to Phase-Pure CH ₃ NH ₃ PbCl via Hydrochloric Acid Vapor Annealing Post-Treatment. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1897-1908	9.5	49
118	Bayesian linear regression and variable selection for spectroscopic calibration. <i>Analytica Chimica Acta</i> , 2009 , 631, 13-21	6.6	49
117	Exceptionally Stable CH ₃ NH ₃ PbI ₃ Films in Moderate Humid Environmental Condition. <i>Advanced Science</i> , 2016 , 3, 1500262	13.6	48
116	Co-sensitization of 3D bulky phenothiazine-cored photosensitizers with planar squaraine dyes for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13848-13855	13	46
115	Efficient iodine-free dye-sensitized solar cells employing truxene-based organic dyes. <i>Chemical Communications</i> , 2012 , 48, 6645-7	5.8	46
114	Over 6% Certified Sb ₂ (S,Se) ₃ Solar Cells Fabricated via In Situ Hydrothermal Growth and Postselenization. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800683	6.4	46
113	Dendrite-Free and Stable Lithium Metal Anodes Enabled by an Antimony-Based Lithiophilic Interphase. <i>Chemistry of Materials</i> , 2019 , 31, 7565-7573	9.6	45
112	Elucidating the reaction pathways in the synthesis of organolead trihalide perovskite for high-performance solar cells. <i>Scientific Reports</i> , 2015 , 5, 10557	4.9	45
111	Additive regulated crystallization and film formation of CH ₃ NH ₃ PbI ₃ Br _x for highly efficient planar-heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18514-18520	13	44
110	Interface Engineering of Anchored Ultrathin TiO/MoS Heterolayers for Highly-Efficient Electrochemical Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6084-6089	9.5	43

109	Li ₃ V ₂ (PO ₄) ₃ encapsulated flexible free-standing nanofabric cathodes for fast charging and long life-cycle lithium-ion batteries. <i>Nanoscale</i> , 2016 , 8, 7408-15	7.7	43
108	High-performance Li-ion capacitor based on black-TiO ₂ -x/graphene aerogel anode and biomass-derived microporous carbon cathode. <i>Nano Research</i> , 2019 , 12, 1713-1719	10	42
107	Graphene oxide-enabled tandem signal amplification for sensitive SPRi immunoassay in serum. <i>Chemical Communications</i> , 2014 , 50, 2133-5	5.8	41
106	Hydrogen storage in NiB nanoalloy-doped 2D graphene. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12950-12954	6.7	41
105	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26834-26841	9.5	40
104	Interfacial Engineering by Indium-Doped CdS for High Efficiency Solution Processed Sb(SSe) Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3207-3213	9.5	40
103	Vacuum assisted solution processing for highly efficient Sb ₂ S ₃ solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16322-16327	13	38
102	A portable flow-through fluorescent immunoassay lab-on-a-chip device using ZnO nanorod-decorated glass capillaries. <i>Lab on A Chip</i> , 2013 , 13, 1797-802	7.2	38
101	Revealing composition and structure dependent deep-level defect in antimony trisulfide photovoltaics. <i>Nature Communications</i> , 2021 , 12, 3260	17.4	37
100	Bottom-up synthesis of nitrogen-doped porous carbon scaffolds for lithium and sodium storage. <i>Nanoscale</i> , 2017 , 9, 1972-1977	7.7	36
99	Controlled growth and photoconductive properties of hexagonal SnS ₂ nanoflakes with mesa-shaped atomic steps. <i>Nano Research</i> , 2017 , 10, 1434-1447	10	36
98	Effects of various π -conjugated spacers in thiadiazole[3,4-c]pyridine-cored panchromatic organic dyes for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3103-3112	13	36
97	Probing the kinetics of short-distance drug release from nanocarriers to nanoacceptors. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8426-30	16.4	35
96	Heterometallic Seed-Mediated Zinc Deposition on Inkjet Printed Silver Nanoparticles Toward Foldable and Heat-Resistant Zinc Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101607	15.6	35
95	Solution processed NiO _x hole-transporting material for all-inorganic planar heterojunction Sb ₂ S ₃ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 185, 542-548	6.4	34
94	Site-selective localization of analytes on gold nanorod surface for investigating field enhancement distribution in surface-enhanced Raman scattering. <i>Nanoscale</i> , 2011 , 3, 1575-81	7.7	33
93	Surface functionalization-enhanced spillover effect on hydrogen storage of NiB nanoalloy-doped activated carbon. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13663-13668	6.7	33
92	Printable highly catalytic Pt- and TCO-free counter electrode for dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2224-9	9.5	32

91	Sequential deposition route to efficient Sb ₂ S ₃ solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21320-21326		
90	Fluorene-bridged organic dyes with di-anchoring groups for efficient co-adsorbent-free dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7086	7.1	31
89	9.7%-efficient Sb ₂ (S,Se) ₃ solar cells with a dithieno[3,2-b:2',3'-d]pyrrole-cored hole transporting material. <i>Energy and Environmental Science</i> , 2021 , 14, 359-364	35.4	31
88	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15041-15048	13	30
87	Three-dimensional spongy framework as superlyophilic, strongly absorbing, and electrocatalytic polysulfide reservoir layer for high-rate and long-cycling lithium-sulfur batteries. <i>Nano Research</i> , 2018 , 11, 6436-6446	10	29
86	Efficient defect passivation of Sb ₂ Se ₃ film by tellurium doping for high performance solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6510-6516	13	27
85	Synthesis and Characterization of Phenothiazine-Based Platinum(II)-Acetylide Photosensitizers for Efficient Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2016 , 22, 3750-7	4.8	25
84	Composition engineering of Sb ₂ S ₃ film enabling high performance solar cells. <i>Science Bulletin</i> , 2019 , 64, 136-141	10.6	25
83	Panchromatic light harvesting by N719 with a porphyrin molecule for high-performance dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3521	7.1	24
82	CsPbBr Nanocrystal Induced Bilateral Interface Modification for Efficient Planar Perovskite Solar Cells. <i>Advanced Science</i> , 2021 , 8, e2102648	13.6	24
81	van der Waals Epitaxial Growth and Interfacial Passivation of Two-Dimensional Single-Crystalline Few-Layer Gray Arsenic Nanoflakes. <i>Chemistry of Materials</i> , 2019 , 31, 4524-4535	9.6	23
80	Thiocyanate-free ruthenium(II) cyclometalated complexes containing uncommon thiazole and benzothiazole chromophores for dye-sensitized solar cells. <i>Journal of Organometallic Chemistry</i> , 2013 , 748, 75-83	2.3	23
79	Chelation-assisted formation of multi-yolk-shell Co ₄ N@carbon nanoboxes for self-discharge-suppressed high-performance LiFeS ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20302-20309	13	22
78	Regulating Energy Band Alignment via Alkaline Metal Fluoride Assisted Solution Post-Treatment Enabling Sb ₂ (S,Se) ₃ Solar Cells with 10.7% Efficiency. <i>Advanced Energy Materials</i> , 2021 , 11, 2103015	21.8	22
77	Water Additive Enhanced Solution Processing of Alloy Sb ₂ (S _{1-x} Se _x) ₃ -Based Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900582	7.1	21
76	Investigation on a dopant-free hole transport material for perovskite solar cells. <i>RSC Advances</i> , 2016 , 6, 69365-69369	3.7	21
75	Step-by-Step Mechanism Insights into the TiO ₂ /CeS ₃ S-Scheme Photocatalyst for Enhanced Aniline Production with Water as a Proton Source. <i>ACS Catalysis</i> , 2022 , 12, 164-172	13.1	21
74	Novel D-πA organic sensitizers containing diarylmethylene-bridged triphenylamine and different spacers for solar cell application. <i>Tetrahedron Letters</i> , 2015 , 56, 1233-1238	2	20

73	Direct Hydrothermal Deposition of Antimony Triselenide Films for Efficient Planar Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18856-18864	9.5	20
72	Novel organic dyes based on diarylmethylene-bridged triphenylamine for dye-sensitized solar cells. <i>Synthetic Metals</i> , 2015 , 205, 70-77	3.6	19
71	Molecular engineering of starburst triarylamine donor with selenophene containing linker for dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 713-726	7.1	19
70	Multivariate Calibration of Near Infrared Spectroscopy in the Presence of Light Scattering Effect: A Comparative Study. <i>Analytical Letters</i> , 2011 , 44, 824-836	2.2	19
69	Solution-Processed in Situ Growth of CuInS ₂ Nanoparticle Films for Efficient Planar Heterojunction Solar Cells with a Dual Nature of Charge Generation. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5231-5242	6.1	18
68	Perovskite Quantum Dots Exhibiting Strong Hole Extraction Capability for Efficient Inorganic Thin Film Solar Cells. <i>Cell Reports Physical Science</i> , 2020 , 1, 100001	6.1	18
67	Intermetallic SnSb nanodots embedded in carbon nanotubes reinforced nanofabric electrodes with high reversibility and rate capability for flexible Li-ion batteries. <i>Nanoscale</i> , 2019 , 11, 13282-13288	7.7	17
66	All Antimony Chalcogenide Tandem Solar Cell. <i>Solar Rrl</i> , 2020 , 4, 2000048	7.1	17
65	Photostability and Moisture Stability of CH ₃ NH ₃ PbI ₃ -based Solar Cells by Ethyl Cellulose. <i>ChemPlusChem</i> , 2016 , 81, 1292-1298	2.8	17
64	Nitrogen-Doped Nickel Oxide as Hole Transport Layer for High-Efficiency Inverted Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900164	7.1	16
63	Statistical Modelling and Analysis of the Aerobic Oxidation of Benzyl Alcohol over KMnO ₄ /C Catalysts. <i>Catalysis Letters</i> , 2009 , 128, 210-220	2.8	16
62	Improving pore filling of gel electrolyte and charge transport in photoanode for high-efficiency quasi-solid-state dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8289-93	9.5	15
61	Macroscopic Orientational Gold Nanorods Monolayer Film with Excellent Photothermal Anticounterfeiting Performance. <i>Advanced Optical Materials</i> , 2020 , 8, 1902082	8.1	14
60	Aqueous-Solution-Based Approach Towards Carbon-Free Sb ₂ S ₃ Films for High Efficiency Solar Cells. <i>ChemSusChem</i> , 2018 , 11, 3208-3214	8.3	12
59	Cu ₂ GeS ₃ : a new hole transporting material for stable and efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19884-19891	13	12
58	Dendrite-Free Anodes Enabled by a Composite of a ZnAl Alloy with a Copper Mesh for High-Performing Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28129-28139	9.5	12
57	Recent progress and perspectives on Sb ₂ Se ₃ -based photocathodes for solar hydrogen production via photoelectrochemical water splitting. <i>Journal of Energy Chemistry</i> , 2021 , 67, 508-508	12	12
56	Coaxial MnO ₂ Nanoshell/CNFs Composite Film Anode for High-Performance Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A487-A492	3.9	11

55	Surface-enhanced Raman scattering on silver dendrite with different growth directions. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 396-404	2.3	11
54	QSAR prediction of HIV inhibition activity of styrylquinoline derivatives by genetic algorithm coupled with multiple linear regressions. <i>Medicinal Chemistry Research</i> , 2012 , 21, 437-443	2.2	11
53	Microcanonical analysis of adsorption of homopolymer chain on a surface. <i>Journal of Chemical Physics</i> , 2009 , 130, 244905	3.9	11
52	Microcanonical analyses of homopolymer aggregation processes. <i>Physical Review E</i> , 2008 , 78, 056101	2.4	11
51	Phosphotungstic Acid Regulated Chemical Bath Deposition of Sb ₂ S ₃ for High-Efficiency Planar Heterojunction Solar Cell. <i>Energy Technology</i> , 2018 , 6, 2126-2131	3.5	10
50	Efficient Perovskite Solar Cells with Titanium Cathode Interlayer. <i>Solar Rrl</i> , 2018 , 2, 1800167	7.1	9
49	Linear or quadratic plasmon peak sensitivities for individual Au/Ag nanosphere sensors. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 812-816	8.5	9
48	Distinctive Deep-Level Defects in Non-Stoichiometric Sb Se Photovoltaic Materials.. <i>Advanced Science</i> , 2022 , e2105268	13.6	9
47	Bis(phenothiazyl-ethynylene)-Based Organic Dyes Containing Di-Anchoring Groups with Efficiency Comparable to N719 for Dye-Sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 332-340	4.5	8
46	Functionalized Imidazole-Fused Porphyrin-Donor-Based Dyes: Effect of Linker and Acceptor on Optoelectronic and Photovoltaic Properties. <i>ChemistrySelect</i> , 2018 , 3, 2558-2564	1.8	8
45	Effective improvement of the photovoltaic performance of black dye sensitized quasi-solid-state solar cells. <i>RSC Advances</i> , 2014 , 4, 31759-31763	3.7	8
44	Deep-Level Transient Spectroscopy for Effective Passivator Selection in Perovskite Solar Cells to Attain High Efficiency over 23. <i>ChemSusChem</i> , 2021 , 14, 3182-3189	8.3	8
43	Defect-Resolved Effective Majority Carrier Mobility in Highly Anisotropic Antimony Chalcogenide Thin-Film Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2000693	7.1	8
42	Sequential Coevaporation and Deposition of Antimony Selenosulfide Thin Film for Efficient Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2006689	24	8
41	Efficient coaxial n-i-p heterojunction Sb ₂ S ₃ solar cells. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 134003	3	7
40	Sb ₂ S ₃ Seed-Mediated Growth of Low-Defect Sb ₂ S ₃ on a TiO ₂ Substrate for Efficient Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12417-12422	6.1	6
39	Optimizing the photovoltaic performance of thiocyanate-free ruthenium photosensitizers by structural modification of C ^N cyclometalating ligand in dye-sensitized solar cells. <i>Polyhedron</i> , 2014 , 82, 71-79	2.7	6
38	Dielectric Nanocup Coating Effect on the Resonant Optical Properties of Individual Au Nanosphere. <i>Plasmonics</i> , 2013 , 8, 1523-1527	2.4	6

37	Probing the Kinetics of Short-Distance Drug Release from Nanocarriers to Nanoacceptors. <i>Angewandte Chemie</i> , 2010 , 122, 8604-8608	3.6	6
36	Probing the trap states in N-i-P Sb(S,Se) solar cells by deep-level transient spectroscopy. <i>Journal of Chemical Physics</i> , 2020 , 153, 124703	3.9	6
35	Solution-Processed Compact Sb ₂ S ₃ Thin Films by a Facile One-Step Deposition Method for Efficient Solar Cells. <i>Solar Rrl</i> , 2100666	7.1	6
34	Large-Area and Efficient Sky-Blue Perovskite Light-Emitting Diodes via Blade-Coating.. <i>Advanced Materials</i> , 2022 , e2108939	24	6
33	New Organic Dyes Based on Biarylmethylene-Bridged Triphenylamine for Dye Sensitized Solar Cell. <i>Chinese Journal of Chemistry</i> , 2015 , 33, 925-933	4.9	5
32	Controllable growth and flexible optoelectronic devices of regularly-assembled Bi ₂ S ₃ semiconductor nanowire bifurcated junctions and crosslinked networks. <i>Nano Research</i> , 2020 , 13, 2226-2232	10.1	5
31	Pulsed laser deposition of antimony selenosulfide thin film for efficient solar cells. <i>Applied Physics Letters</i> , 2020 , 116, 133901	3.4	5
30	Oscillator strengths and integral cross sections for the valence-shell excitations of nitric oxide studied by fast electron impact. <i>Journal of Chemical Physics</i> , 2018 , 148, 044311	3.9	5
29	Ruthenium-Based Photosensitizers for Dye-Sensitized Solar Cells. <i>Green Chemistry and Sustainable Technology</i> , 2015 , 91-114	1.1	5
28	9.6%-Efficient all-inorganic Sb ₂ (S,Se) ₃ solar cells with a MnS hole-transporting layer. <i>Journal of Materials Chemistry A</i> ,	13	5
27	Aqueous solution processed MoS as an eco-friendly hole-transport layer for all-inorganic SbSe solar cells. <i>Chemical Communications</i> , 2020 , 56, 15173-15176	5.8	5
26	A thiol-amine mixture for metal oxide towards device quality metal chalcogenides. <i>Science China Materials</i> , 2019 , 62, 899-906	7.1	5
25	Efficient Sb ₂ (S,Se) ₃ Solar Modules Enabled by Hydrothermal Deposition. <i>Solar Rrl</i> , 2021 , 5, 2000750	7.1	5
24	Synthesis of Janus Au@BCP nanoparticles via UV light-initiated RAFT polymerization-induced self-assembly. <i>Nanoscale Advances</i> , 2021 , 3, 347-352	5.1	5
23	Oscillator strengths and integral cross sections of the $\pi^* \leftarrow X A$ excitation of ammonia studied by fast electron impact. <i>Journal of Chemical Physics</i> , 2019 , 150, 064311	3.9	3
22	Dye-sensitized solar cells based on functionalized truxene structure. <i>Chinese Chemical Letters</i> , 2015 , 26, 955-962	8.1	3
21	Organic Chloride Salt Interfacial Modified Crystallization for Efficient Antimony Selenosulfide Solar Cells.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
20	Tuning the Interaction between Ruthenium Single Atoms and the Second Coordination Sphere for Efficient Nitrogen Photofixation. <i>Advanced Functional Materials</i> , 2112452	15.6	3

19	Solution processed AgSbS ₂ film for efficient planar heterojunction solar cells. <i>Applied Physics Letters</i> , 2021 , 119, 151906	3.4	3
18	Tunable Mie Resonances of Tin-based Iodide Perovskite Islandlike Films with Enhanced Infrared Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3332-3338	6.4	3
17	Transparent, High-Performance and Stable Sb S Photoanode Enabled by Heterojunction Engineering with Conjugated Polycarbazole Frameworks for Unbiased Photoelectrochemical Overall Water Splitting Devices.. <i>Advanced Materials</i> , 2022 , e2200723	24	3
16	Synthesis of tunable-band-gap "Open-Box" halide perovskites by use of anion exchange and internal dissolution procedures. <i>Journal of Colloid and Interface Science</i> , 2016 , 461, 162-167	9.3	2
15	Nanoarray heterojunction and its efficient solar cells without negative impact of photogenerated electric field. <i>Communications Physics</i> , 2021 , 4,	5.4	2
14	Investigations of the valence-shell excitations of molecular ethane by high-energy electron scattering. <i>Journal of Chemical Physics</i> , 2018 , 148, 144313	3.9	1
13	Rational control of anisotropic nanocomposites for engineered nanocatives and SERS application 2010 ,		1
12	Application of the simple model for f _{7/2} transition to assignment of 4f _{7/2} excitation spectra of Yb ³⁺ doped in crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1050-1055	1.3	1
11	Elastic Behavior of Polymer Chains. <i>Chinese Journal of Chemical Physics</i> , 2008 , 21, 463-468	0.9	1
10	Factors Affecting Polymer Translocation Through a Nanopore in a Membrane. <i>Chinese Journal of Chemical Physics</i> , 2008 , 21, 275-280	0.9	1
9	Gold atom diffusion assisted thermal healing enabling high-performance hole-transporting material in solar cells. <i>Applied Physics Letters</i> , 2021 , 119, 211904	3.4	1
8	Efficient Perovskite Solar Cells with Titanium Cathode Interlayer (Solar RRL 110018). <i>Solar Rrl</i> , 2018 , 2, 1870226	7.1	1
7	Engineering microstructures for efficient Sb ₂ (S x Se _{1-x}) ₃ solar cells. <i>Journal of Semiconductors</i> , 2021 , 42, 070203	2.3	1
6	Heteroepitaxial and homoepitaxial nucleation strategies to grow Sb ₂ S ₃ nanorod arrays and therefrom a derived gain of 7.18%-efficient Sb ₂ (S,Se) ₃ quasi-nanoarray heterojunction solar cells. <i>Applied Materials Today</i> , 2022 , 27, 101487	6.6	1
5	Photophysical characteristics and photosensitizing abilities of thieno[3,2-b]thiophene-Based photosensitizers for photovoltaic and photocatalytic applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 406, 112979	4.7	0
4	An n ⁺ type heterojunction enabling highly efficient carrier separation in inorganic solar cells. <i>Chinese Physics B</i> , 2022 , 31, 038803	1.2	0
3	Intrinsic Trapping and Recombination Dynamics in Low-Dimensional Bismuth Sulfide Nanocrystals. <i>Advanced Materials Interfaces</i> , 2200219	4.6	0
2	Indole-Catalyzed Bromolactonization: Preparation of Bromolactone in Lipophilic Media 256-266		

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