Shang-Feng Yang

List of Publications by Year in Descending Order

336 papers	14,522 citations	59 h-index	105 g-index
369 ext. papers	16,941 ext. citations	8.8 avg, IF	7.03 L-index

#	Paper	IF	Citations
336	Distinctive Deep-Level Defects in Non-Stoichiometric Sb Se Photovoltaic Materials.. *Advanced Science*, **2022**, e2105268	13.6	9
335	Simultaneously Achieving Highly Efficient and Stable Polymer:Non-Fullerene Solar Cells Enabled By Molecular Structure Optimization and Surface Passivation.. *Advanced Science*, **2022**, e2104588	13.6	4
334	Multiple bonding effects of 1-methanesulfonyl-piperazine on the two-step processed perovskite towards efficient and stable solar cells. *Nano Energy*, **2022**, 93, 106856	17.1	4
333	Synthesis of a magnetic □extended carbon nanosolenoid with Riemann surfaces.. *Nature Communications*, **2022**, 13, 1239	17.4	3
332	Unexpected Formation of Pyrazoline-Fused Metallofullerenes from the Multicomponent Cascade Reaction of ScN@-C with Tetrazines, Water, and Oxygen.. *Organic Letters*, **2022**, 24, 3493-3498	6.2	3
331	Heteroepitaxial and homoepitaxial nucleation strategies to grow Sb2S3 nanorod arrays and therefrom a derived gain of 7.18%-efficient Sb2(S,Se)3 quasi-nanoarray heterojunction solar cells. *Applied Materials Today*, **2022**, 27, 101487	6.6	1
330	Using fluorinated and crosslinkable fullerene derivatives to improve the stability of perovskite solar cells. *Journal of Semiconductors*, **2021**, 42, 120201	2.3	3
329	Pomegranate-like C60@cobalt/nitrogen-codoped porous carbon for high-performance oxygen reduction reaction and lithium-sulfur battery. *Nano Research*, **2021**, 14, 2596-2605	10	6
328	In Situ Surface Fluorination of TiO Nanocrystals Reinforces Interface Binding of Perovskite Layer for Highly Efficient Solar Cells with Dramatically Enhanced Ultraviolet-Light Stability. *Advanced Science*, **2021**, 8, 2004662	13.6	31
327	Surface Modification of PEDOT:PSS for Enhanced Performance of Inverted Perovskite Solar Cells. *ACS Applied Energy Materials*, **2021**, 4, 4408-4415	6.1	7
326	Synthesis and Photophysical Properties of [3]Cyclo-1,8-pyrenes via [4 + 2] Cycloaddition Reaction. *Journal of Organic Chemistry*, **2021**, 86, 7038-7045	4.2	6
325	Capturing the Missing Carbon Cage Isomer of C via Mutual Stabilization of a Triangular Monometallic Cyanide Cluster. *Journal of the American Chemical Society*, **2021**, 143, 8078-8085	16.4	6
324	Cu(I)-Catalyzed Synthesis of [60]Fullerene-Fused Lactams and Further Electrochemical Functionalization. *Organic Letters*, **2021**, 23, 4051-4056	6.2	5
323	In Situ Investigation of the Cu/CH3NH3PbI3 Interface in Perovskite Device. *Advanced Materials Interfaces*, **2021**, 8, 2100120	4.6	5
322	Efficient and photostable CsPbI2Br solar cells realized by adding PMMA. *Journal of Semiconductors*, **2021**, 42, 050501	2.3	4
321	A Highly Strained All-Phenylene Conjoined Bismacrocycle. *Angewandte Chemie*, **2021**, 133, 17508-17512	3.6	3
320	A Highly Strained All-Phenylene Conjoined Bismacrocycle. *Angewandte Chemie - International Edition*, **2021**, 60, 17368-17372	16.4	10

319	The integration structure enhances performance of perovskite solar cells. *Science Bulletin*, **2021**, 66, 310-318	18.3	1
318	Perovskite-based tandem solar cells. *Science Bulletin*, **2021**, 66, 621-636	10.6	23
317	Visible Light-Induced Degradation of Inverted Polymer:Nonfullerene Acceptor Solar Cells: Initiated by the Light Absorption of ZnO Layer. *Solar Rrl*, **2021**, 5, 2000638	7.1	17
316	Stabilizing a three-center single-electron metal-metal bond in a fullerene cage. *Chemical Science*, **2021**, 12, 6890-6895	9.4	4
315	Synthesis and properties of a nanographene-embedded conjugated macrocyclic nanoring the Scholl reaction. *Chemical Communications*, **2021**, 57, 9104-9107	5.8	2
314	A supramolecular polymeric heterojunction composed of an all-carbon conjugated polymer and fullerenes. *Chemical Science*, **2021**, 12, 10506-10513	9.4	7
313	Favorite Orientation of the Carbon Cage and a Unique Two-Dimensional-Layered Packing Model in the Cocrystals of Nd@C(I,II) Isomers with Decapyrrylcorannulene. *Inorganic Chemistry*, **2021**, 60, 1462-1471	5.1	4
312	Anomalous Cis-Conformation Regioselectivity of Heterocycle-Fused Sc3N@D3h-C78 Derivatives. *Angewandte Chemie*, **2021**, 133, 7959-7965	3.6	2
311	Chemical functionalization of 2D black phosphorus. *Informa Materia*, **2021**, 3, 231-251	23.1	12
310	Anomalous Cis-Conformation Regioselectivity of Heterocycle-Fused Sc N@D -C Derivatives. *Angewandte Chemie - International Edition*, **2021**, 60, 7880-7886	16.4	5
309	Nanoarray heterojunction and its efficient solar cells without negative impact of photogenerated electric field. *Communications Physics*, **2021**, 4,	5.4	2
308	Double-site defect passivation of perovskite film via fullerene additive engineering toward highly efficient and stable bulk heterojunction solar cells. *Nano Today*, **2021**, 39, 101164	17.9	10
307	Boosting Antitumor Sonodynamic Therapy Efficacy of Black Phosphorus via Covalent Functionalization. *Advanced Science*, **2021**, 8, e2102422	13.6	5
306	Phenylformamidinium-enabled quasi-2D Ruddlesden-Popper perovskite solar cells with improved stability. *Journal of Energy Chemistry*, **2021**, 66, 680-680	12	5
305	Controllable synthesis and n-doping of HMoOx nanoparticle inks through simple photoreduction for solution-processed organic photovoltaics. *Chemical Engineering Journal*, **2021**, 425, 130620	14.7	6
304	An efficiency of 14.29% and 13.08% for 1 cm2 and 4 cm2 flexible organic solar cells enabled by sol-gel ZnO and ZnO nanoparticle bilayer electron transporting layers. *Journal of Materials Chemistry A*, **2021**, 9, 16889-16897	13	7
303	Ancient pigment to treasure: Prussian blue as a cheap solid cyanide/nitrogen dual-source affording the high-yield syntheses of pricey endohedral clusterfullerenes. *Inorganic Chemistry Frontiers*, **2021**, 8, 1719-1726	6.8	6
302	A chlorinated copolymer donor demonstrates a 18.13% power conversion efficiency. *Journal of Semiconductors*, **2021**, 42, 010501	2.3	81

301	Three Isolated-Pentagon-Rule Isomers of C Fullerene Isolated as Trifluoromethyl Derivatives. *Inorganic Chemistry*, **2020**, 59, 17866-17869	5.1	4
300	In Situ Investigations of Al/Perovskite Interfacial Structures. *ACS Applied Materials & Interfaces*, **2020**, 12, 28861-28868	9.5	9
299	Electrochemical regioselective alkylations of a [60]fulleroindoline with bulky alkyl bromides. *Organic and Biomolecular Chemistry*, **2020**, 18, 4783-4787	3.9	3
298	Functionalization of fullerene materials toward applications in perovskite solar cells. *Materials Chemistry Frontiers*, **2020**, 4, 2256-2282	7.8	39
297	Rear-Illuminated Perovskite Photorechargeable Lithium Battery. *Advanced Functional Materials*, **2020**, 30, 2001865	15.6	17
296	Fused-ring phenazine building blocks for efficient copolymer donors. *Materials Chemistry Frontiers*, **2020**, 4, 1454-1458	7.8	11
295	Progress of the key materials for organic solar cells. *Science China Chemistry*, **2020**, 63, 758-765	7.9	101
294	Surface Passivation of Perovskite Film by Sodium Toluenesulfonate for Highly Efficient Solar Cells. *Solar Rrl*, **2020**, 4, 2000113	7.1	19
293	Potassium salt promoted regioselective three-component coupling synthesis of 1,4-asymmetrical [60]fullerene bisadducts with superior electron transport properties. *Chemical Communications*, **2020**, 56, 9513-9516	5.8	3
292	Modifying Mesoporous TiO by Ammonium Sulfonate Boosts Performance of Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 12696-12705	9.5	20
291	Steering the electron transport properties of pyridine-functionalized fullerene derivatives in inverted perovskite solar cells: the nitrogen site matters. *Journal of Materials Chemistry A*, **2020**, 8, 3872-3881	13	17
290	Passivating Surface Defects of n-SnO2 Electron Transporting Layer by InP/ZnS Quantum Dots: Toward Efficient and Stable Organic Solar Cells. *Advanced Electronic Materials*, **2020**, 6, 1901245	6.4	20
289	Surface Modification of TiO2 for Perovskite Solar Cells. *Trends in Chemistry*, **2020**, 2, 148-162	14.8	40
288	Double fullerene cathode buffer layers afford highly efficient and stable inverted planar perovskite solar cells. *Organic Electronics*, **2020**, 82, 105726	3.5	5
287	Successively Regioselective Electrosynthesis and Electron Transport Property of Stable Multiply Functionalized [60]Fullerene Derivatives. *Research*, **2020**, 2020, 2059190	7.8	11
286	Selective Synthesis of Conjugated Chiral Macrocycles: Sidewall Segments of (-)/(+)-(12,4) Carbon Nanotubes with Strong Circularly Polarized Luminescence. *Angewandte Chemie - International Edition*, **2020**, 59, 1619-1626	16.4	40
285	Selective Synthesis of Conjugated Chiral Macrocycles: Sidewall Segments of (-)/(+)-(12,4) Carbon Nanotubes with Strong Circularly Polarized Luminescence. *Angewandte Chemie*, **2020**, 132, 1636-1643	3.6	23
284	Trifluoromethyl Derivatives of Elusive Fullerene C. *Chemistry - A European Journal*, **2020**, 26, 616-619	4.8	6

283	18% Efficiency organic solar cells. *Science Bulletin*, **2020**, 65, 272-275	10.6	1625
282	Bulk heterojunction gifts bismuth-based lead-free perovskite solar cells with record efficiency. *Nano Energy*, **2020**, 68, 104362	17.1	54
281	Synthesis of Giant Extended Molecular Macrocyclic Rings as Finite Models of Carbon Nanotubes Displaying Enriched Size-Dependent Physical Properties. *Chemistry - A European Journal*, **2020**, 26, 2159-2163	4.8	12
280	Highly Efficient and Reversible Covalent Patterning of Graphene: 2D-Management of Chemical Information. *Angewandte Chemie - International Edition*, **2020**, 59, 5602-5606	16.4	23
279	A 2.16 eV bandgap polymer donor gives 16% power conversion efficiency. *Science Bulletin*, **2020**, 65, 179-181	10.6	61
278	Synergistic engineering of hole transport materials in perovskite solar cells. *Informa Materia*, **2020**, 2, 928-941	23.1	16
277	Hydrothermal deposition of antimony selenosulfide thin films enables solar cells with 10% efficiency. *Nature Energy*, **2020**, 5, 587-595	62.3	162
276	Fast Wetting of a Fullerene Capping Layer Improves the Efficiency and Scalability of Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 37265-37274	9.5	3
275	New Isolated-Pentagon-Rule Isomers of Fullerene C96 Captured as Chloro Derivatives. *European Journal of Inorganic Chemistry*, **2020**, 2020, 2092-2095	2.3	7
274	Structural Studies of Giant Empty and Endohedral Fullerenes. *Frontiers in Chemistry*, **2020**, 8, 607712	5	7
273	Enhancing the photodynamic therapy efficacy of black phosphorus nanosheets by covalently grafting fullerene C. *Chemical Science*, **2020**, 11, 11435-11442	9.4	13
272	Strain Release of Fused Pentagons in Fullerene Cages by Chemical Functionalization. *Angewandte Chemie - International Edition*, **2020**, 59, 1048-1073	16.4	18
271	Freisetzung der Spannung kondensierter Fünfringe des Fullerenkäfigs durch chemische Funktionalisierung. *Angewandte Chemie*, **2020**, 132, 1060-1088	3.6	5
270	Functionalization of fullerene by polyethylene glycol toward promoted electron transport in inverted polymer solar cells. *Organic Electronics*, **2020**, 77, 105502	3.5	3
269	An efficient medium-bandgap nonfullerene acceptor for organic solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 8857-8861	13	11
268	A Wide-Band Gap Copolymer Donor for Efficient Fullerene-Free Solar Cells. *ACS Omega*, **2019**, 4, 14800-14804	3.9	3
267	Electrochemical Benzylation of [60]Fullerene-Fused Lactones: Unexpected Formation of Ring-Opened Adducts and Their Photovoltaic Performance. *Organic Letters*, **2019**, 21, 7346-7350	6.2	15
266	Thiolactone copolymer donor gifts organic solar cells a 16.72% efficiency. *Science Bulletin*, **2019**, 64, 1573-1576	10.6	108

265	Pyridine-functionalized fullerene additive enabling coordination interactions with CH3NH3PbI3 perovskite towards highly efficient bulk heterojunction solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 2754-2763	13	59
264	12.88% efficiency in doctor-blade coated organic solar cells through optimizing the surface morphology of a ZnO cathode buffer layer. *Journal of Materials Chemistry A*, **2019**, 7, 212-220	13	53
263	High-performance wide-bandgap copolymers with dithieno[3,2-b:2?,3?-d]pyridin-5(4H)-one units. *Materials Chemistry Frontiers*, **2019**, 3, 399-402	7.8	16
262	Flexible decapyrrylcorannulene hosts. *Nature Communications*, **2019**, 10, 485	17.4	29
261	Template deposition of Sb2S3 for solid-state sensitized solar cells. *Journal of Alloys and Compounds* , **2019**, 784, 947-953	5.7	16
260	Nitrogen-Doped Nickel Oxide as Hole Transport Layer for High-Efficiency Inverted Planar Perovskite Solar Cells. *Solar Rrl*, **2019**, 3, 1900164	7.1	16
259	From Cubes to Dice: Solvent-Regulated Morphology Engineering of Endohedral Fullerene Microcrystals with Anomalous Photoluminescence Enhancement. *Angewandte Chemie - International Edition*, **2019**, 58, 11350-11354	16.4	17
258	Solution-Processed in Situ Growth of CuInS2 Nanoparticle Films for Efficient Planar Heterojunction Solar Cells with a Dual Nature of Charge Generation. *ACS Applied Energy Materials*, **2019**, 2, 5231-5242	6.1	18
257	Induced J-aggregation in acceptor alloy enhances photocurrent. *Science Bulletin*, **2019**, 64, 1083-1086	10.6	41
256	Chlorination-Promoted Skeletal Transformations of Fullerenes. *Accounts of Chemical Research*, **2019**, 52, 1783-1792	24.3	27
255	From Cubes to Dice: Solvent-Regulated Morphology Engineering of Endohedral Fullerene Microcrystals with Anomalous Photoluminescence Enhancement. *Angewandte Chemie*, **2019**, 131, 11472	3.6	1
254	Chlorination-Promoted Cage Transformation of IPR C Discovered via Trifluoromethylation under Formation of Non-classical C (NC)(CF). *Chemistry - an Asian Journal*, **2019**, 14, 2108-2111	4.5	6
253	Covalent Inter-Carbon-Allotrope Architectures Consisting of the Endohedral Fullerene Sc3N@C80 and Single-Walled Carbon Nanotubes. *Angewandte Chemie*, **2019**, 131, 8142-8146	3.6	7
252	Photoconductive Curved-Nanographene/Fullerene Supramolecular Heterojunctions. *Angewandte Chemie - International Edition*, **2019**, 58, 6244-6249	16.4	61
251	Covalent Inter-Carbon-Allotrope Architectures Consisting of the Endohedral Fullerene Sc N@C and Single-Walled Carbon Nanotubes. *Angewandte Chemie - International Edition*, **2019**, 58, 8058-8062	16.4	13
250	Photoconductive Curved-Nanographene/Fullerene Supramolecular Heterojunctions. *Angewandte Chemie*, **2019**, 131, 6310-6315	3.6	23
249	Zwitterion Coordination Induced Highly Orientational Order of CH3NH3PbI3 Perovskite Film Delivers a High Open Circuit Voltage Exceeding 1.2 V. *Advanced Functional Materials*, **2019**, 29, 1901026	15.6	90
248	Stable C(26) and C(38) as Well as Unstable C(50) and C(23) Isolated-Pentagon-Rule Isomers As Revealed by Chlorination of C Fullerene. *Inorganic Chemistry*, **2019**, 58, 5393-5396	5.1	11

247	CsPbI2.25Br0.75 solar cells with 15.9% efficiency. *Science Bulletin*, **2019**, 64, 507-510	10.6	47
246	Low-Temperature In Situ Amino Functionalization of TiO Nanoparticles Sharpens Electron Management Achieving over 21% Efficient Planar Perovskite Solar Cells. *Advanced Materials*, **2019**, 31, e1806095	24	136
245	Exfoliated graphitic carbon nitride self-recognizing CH3NH3PbI3 grain boundaries by hydrogen bonding interaction for improved perovskite solar cells. *Solar Energy*, **2019**, 181, 161-168	6.8	15
244	Beyond Metal Oxides: Introducing Low-Temperature Solution-Processed Ultrathin Layered Double Hydroxide Nanosheets into Polymer Solar Cells Toward Improved Electron Transport (Solar RRL 2∕2019). *Solar Rrl*, **2019**, 3, 1970025	7.1	1
243	CsPb(I Br1)3 solar cells. *Science Bulletin*, **2019**, 64, 1532-1539	10.6	92
242	Improving Performance of Nonfullerene Organic Solar Cells over 13% by Employing Silver Nanowires-Doped PEDOT:PSS Composite Interface. *ACS Applied Materials & Interfaces*, **2019**, 11, 42447-42454	9.5	16
241	Palladium-Catalyzed Heteroannulation of Indole-1-carboxamides with [60]Fullerene and Subsequent Electrochemical Transformations. *Organic Letters*, **2019**, 21, 8568-8571	6.2	20
240	Preferentially oriented large antimony trisulfide single-crystalline cuboids grown on polycrystalline titania film for solar cells. *Communications Chemistry*, **2019**, 2,	6.3	21
239	In situ investigations of interfacial degradation and ion migration at CH3NH3PbI3 perovskite/Ag interface. *Chinese Journal of Chemical Physics*, **2019**, 32, 299-305	0.9	9
238	Interface engineering gifts CsPbI2.25Br0.75 solar cells high performance. *Science Bulletin*, **2019**, 64, 1743-1746	10.6	32
237	A Long Conjugated Poly(-Phenylene)-Based Polymeric Segment of Single-Walled Carbon Nanotubes. *Journal of the American Chemical Society*, **2019**, 141, 18938-18943	16.4	19
236	A wide-bandgap copolymer donor based on a phenanthridin-6(5H)-one unit. *Materials Chemistry Frontiers*, **2019**, 3, 2686-2689	7.8	3
235	High-yielding Pd(dba)CH-based four-fold Sonogashira coupling with selenophene-conjugated magnesium tetraethynylporphyrin for organic solar cells.. *RSC Advances*, **2019**, 9, 32562-32572	3.7	2
234	Hybrids of Fullerenes and 2D Nanomaterials. *Advanced Science*, **2019**, 6, 1800941	13.6	59
233	Modular Covalent Graphene Functionalization with C60 and the Endohedral Fullerene Sc3N@C80: A Facile Entry to Synthetic-Carbon-Allotrope Hybrids. *Angewandte Chemie*, **2019**, 131, 826-830	3.6	2
232	Beyond Metal Oxides: Introducing Low-Temperature Solution-Processed Ultrathin Layered Double Hydroxide Nanosheets into Polymer Solar Cells Toward Improved Electron Transport. *Solar Rrl*, **2019**, 3, 1800299	7.1	3
231	2D Nanomaterials: Hybrids of Fullerenes and 2D Nanomaterials (Adv. Sci. 1/2019). *Advanced Science* , **2019**, 6, 1970006	13.6	2
230	Carbon-Oxygen-Bridged Ladder-Type Building Blocks for Highly Efficient Nonfullerene Acceptors. *Advanced Materials*, **2019**, 31, e1804790	24	117

229	Azide Passivation of Black Phosphorus Nanosheets: Covalent Functionalization Affords Ambient Stability Enhancement. *Angewandte Chemie - International Edition*, **2019**, 58, 1479-1483	16.4	79
228	Modular Covalent Graphene Functionalization with C and the Endohedral Fullerene Sc N@C : A Facile Entry to Synthetic-Carbon-Allotrope Hybrids. *Angewandte Chemie - International Edition*, **2019**, 58, 816-820	16.4	11
227	Growth of Compact CHNHPbI Thin Films Governed by the Crystallization in PbI Matrix for Efficient Planar Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 8649-8658	9.5	13
226	Conductivity enhancement of PEDOT:PSS film via sulfonic acid modification: application as transparent electrode for ITO-free polymer solar cells. *Science China Chemistry*, **2018**, 61, 1179-1186	7.9	10
225	Promoting perovskite crystal growth to achieve highly efficient and stable solar cells by introducing acetamide as an additive. *Journal of Materials Chemistry A*, **2018**, 6, 9930-9937	13	42
224	A Thieno[3,2-c]Isoquinolin-5(4H)-One Building Block for Efficient Thick-Film Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1800397	21.8	33
223	An ultrathin SiO2 blocking layer to suppress interfacial recombination for efficient Sb2S3-sensitized solar cells. *Inorganic Chemistry Frontiers*, **2018**, 5, 1370-1377	6.8	9
222	Steering the Geometry of Butterfly-Shaped Dimetal Carbide Cluster within a Carbon Cage via Trifluoromethylation of YC@C(6). *Journal of the American Chemical Society*, **2018**, 140, 3496-3499	16.4	11
221	Blending Non-Group-3 Transition Metal and Rare-Earth Metal into a C Fullerene Cage with D Symmetry. *Angewandte Chemie - International Edition*, **2018**, 57, 10273-10277	16.4	13
220	Phase Engineering of Perovskite Materials for High-Efficiency Solar Cells: Rapid Conversion of CHNHPbI to Phase-Pure CHNHPbCl via Hydrochloric Acid Vapor Annealing Post-Treatment. *ACS Applied Materials & Interfaces*, **2018**, 10, 1897-1908	9.5	49
219	Expanding pore sizes of ZIF-8-derived nitrogen-doped microporous carbon via C embedding: toward improved anode performance for the lithium-ion battery. *Nanoscale*, **2018**, 10, 2473-2480	7.7	31
218	Enhanced photovoltaic performance of Sb2S3-sensitized solar cells through surface treatments. *Applied Surface Science*, **2018**, 440, 294-299	6.7	19
217	A strategic review on processing routes towards highly efficient perovskite solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 2406-2431	13	150
216	A Bi-functional additive for linking PI2 and decreasing defects in organo-halide perovskites. *Journal of Alloys and Compounds*, **2018**, 758, 171-176	5.7	9
215	Hybridizing MoS2 and C60 via a van der Waals heterostructure toward synergistically enhanced visible light photocatalytic hydrogen production activity. *International Journal of Hydrogen Energy*, **2018**, 43, 8698-8706	6.7	20
214	Blending Non-Group-3 Transition Metal and Rare-Earth Metal into a C80 Fullerene Cage with D5h Symmetry. *Angewandte Chemie*, **2018**, 130, 10430-10434	3.6	4
213	Dithieno[3,2-b:2?,3?-d]pyrrole-based hole transport materials for perovskite solar cells with efficiencies over 18%. *Journal of Materials Chemistry A*, **2018**, 6, 7950-7958	13	101
212	Semitransparent CH3NH3PbI3 Films Achieved by Solvent Engineering for Annealing- and Electron Transport Layer-Free Planar Perovskite Solar Cells. *Solar Rrl*, **2018**, 2, 1700222	7.1	18

211	Solution-processed CuSbS2 solar cells based on metal□rganic molecular solution precursors. *Journal of Materials Science*, **2018**, 53, 2016-2025	4.3	17
210	Strong carbon cage influence on the single molecule magnetism in Dy-Sc nitride clusterfullerenes. *Chemical Communications*, **2018**, 54, 9730-9733	5.8	18
209	Vacuum assisted solution processing for highly efficient Sb2S3 solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 16322-16327	13	38
208	Noncovalent phosphorylation of graphene oxide with improved hole transport in high-efficiency polymer solar cells. *Nanoscale*, **2018**, 10, 14840-14846	7.7	12
207	Anchoring Fullerene onto Perovskite Film via Grafting Pyridine toward Enhanced Electron Transport in High-Efficiency Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 32471-32482	9.5	47
206	n-Type Doping of SbS Light-Harvesting Films Enabling High-Efficiency Planar Heterojunction Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 30314-30321	9.5	68
205	Understanding the side-chain effects on A□□ acceptors: in-plane and out-of-plane. *Materials Chemistry Frontiers*, **2018**, 2, 1563-1567	7.8	12
204	A Three-Dimensional Capsule-like Carbon Nanocage as a Segment Model of Capped Zigzag [12,0] Carbon Nanotubes: Synthesis, Characterization, and Complexation with C70. *Angewandte Chemie*, **2018**, 130, 9474-9479	3.6	30
203	Facile fabrication of perovskite layers with large grains through a solvent exchange approach. *Inorganic Chemistry Frontiers*, **2018**, 5, 348-353	6.8	34
202	Niobium doped zinc oxide nanorods as an electron transport layer for high-performance inverted polymer solar cells. *Journal of Colloid and Interface Science*, **2018**, 512, 548-554	9.3	18
201	Experimental and Theoretical Approach to Variable Chlorination-Promoted Skeletal Transformations in Fullerenes: The Case of C. *Inorganic Chemistry*, **2018**, 57, 4222-4225	5.1	21
200	Sequential deposition route to efficient Sb2S3 solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 21320-21326	13	52
199	Azide Passivation of Black Phosphorus Nanosheets: Covalent Functionalization Affords Ambient Stability Enhancement. *Angewandte Chemie*, **2018**, 131, 1493	3.6	3
198	Stabilizing black phosphorus nanosheets via edge-selective bonding of sacrificial C molecules. *Nature Communications*, **2018**, 9, 4177	17.4	115
197	Triple cation additive NH3+C2H4NH2+C2H4NH3+-induced phase-stable inorganic □CsPbI3 perovskite films for use in solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 18258-18266	13	55
196	A Three-Dimensional Capsule-like Carbon Nanocage as a Segment Model of Capped Zigzag [12,0] Carbon Nanotubes: Synthesis, Characterization, and Complexation with C. *Angewandte Chemie - International Edition*, **2018**, 57, 9330-9335	16.4	55
195	CsAg2Sb2I9 solar cells. *Inorganic Chemistry Frontiers*, **2018**, 5, 1690-1693	6.8	19
194	Mononuclear Clusterfullerene Single-Molecule Magnet Containing Strained Fused-Pentagons Stabilized by a Nearly Linear Metal Cyanide Cluster. *Angewandte Chemie*, **2017**, 129, 1856-1860	3.6	17

193	Mononuclear Clusterfullerene Single-Molecule Magnet Containing Strained Fused-Pentagons Stabilized by a Nearly Linear Metal Cyanide Cluster. *Angewandte Chemie - International Edition*, **2017**, 56, 1830-1834	16.4	52
192	Black Phosphorus Revisited: A Missing Metal-Free Elemental Photocatalyst for Visible Light Hydrogen Evolution. *Advanced Materials*, **2017**, 29, 1605776	24	309
191	Chloro Derivatives of Isomers of a Giant Fullerene C : C (234)Cl , C (812)Cl , and C (811)Cl. *Chemistry - A European Journal*, **2017**, 23, 4761-4764	4.8	3
190	A fast chemical approach towards SbS film with a large grain size for high-performance planar heterojunction solar cells. *Nanoscale*, **2017**, 9, 3386-3390	7.7	108
189	Alternative benzodithiophene (BDT) based polymeric hole transport layer for efficient perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2017**, 168, 8-13	6.4	31
188	Pyramidal TiTb2C cluster encapsulated within the popular Ih(7)-C80 fullerene cage. *Inorganica Chimica Acta*, **2017**, 468, 203-208	2.7	8
187	New Isolated-Pentagon-Rule Isomers of Fullerene C Captured as Chloro Derivatives. *Inorganic Chemistry*, **2017**, 56, 4780-4783	5.1	11
186	Confining the spin between two metal atoms within the carbon cage: redox-active metal-metal bonds in dimetallofullerenes and their stable cation radicals. *Nanoscale*, **2017**, 9, 7977-7990	7.7	27
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