Shang-Feng Yang

List of Publications by Year
in descending order

342 papers	19,207 citations	13827 67 h-index	17546 121 g-index
369 all docs	369 docs citations	369 times ranked	14326 citing authors

#	Article	IF	Citations
1	18% Efficiency organic solar cells. Science Bulletin, 2020, 65, 272-275.	4.3	2,380
2	Endohedral Fullerenes. Chemical Reviews, 2013, 113, 5989-6113.	23.0	1,103
3	Black Phosphorus Revisited: A Missing Metalâ€Free Elemental Photocatalyst for Visible Light Hydrogen Evolution. Advanced Materials, 2017, 29, 1605776.	11.1	405
4	26â€¯mAâ€¯cmâ^'2 Jsc from organic solar cells with a low-bandgap nonfullerene acceptor. Science Bulletin, 2017, 62, 1494-1496.	4.3	368
5	Metal Nitride Cluster Fullerenes: Their Current State and Future Prospects. Small, 2007, 3, 1298-1320.	5.2	349
6	Hydrothermal deposition of antimony selenosulfide thin films enables solar cells with 10% efficiency. Nature Energy, 2020, 5, 587-595.	19.8	338
7	When metal clusters meet carbon cages: endohedral clusterfullerenes. Chemical Society Reviews, 2017, 46, 5005-5058.	18.7	235
8	Numerical simulation: Toward the design of high-efficiency planar perovskite solar cells. Applied Physics Letters, 2014, 104, .	1.5	232
9	Incorporating Graphitic Carbon Nitride (gâ€C₃N₄) Quantum Dots into Bulkâ€Heterojunction Polymer Solar Cells Leads to Efficiency Enhancement. Advanced Functional Materials, 2016, 26, 1719-1728.	7.8	221
10	High-efficiency ITO-free polymer solar cells using highly conductive PEDOT:PSS/surfactant bilayer transparent anodes. Energy and Environmental Science, 2013, 6, 1956.	15.6	207
11	Lowâ€Temperature In Situ Amino Functionalization of TiO₂ Nanoparticles Sharpens Electron Management Achieving over 21% Efficient Planar Perovskite Solar Cells. Advanced Materials, 2019, 31, e1806095.	11.1	194
12	An Endohedral Single-Molecule Magnet with Long Relaxation Times: DySc₂N@C₈₀. Journal of the American Chemical Society, 2012, 134, 9840-9843.	6.6	188
13	A strategic review on processing routes towards highly efficient perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 2406-2431.	5.2	179
14	Stabilizing black phosphorus nanosheets via edge-selective bonding of sacrificial C60 molecules. Nature Communications, 2018, 9, 4177.	5.8	171
15	Metal Sulfide in a C₈₂Fullerene Cage: A New Form of Endohedral Clusterfullerenes. Journal of the American Chemical Society, 2010, 132, 5413-5421.	6.6	162
16	Progress of the key materials for organic solar cells. Science China Chemistry, 2020, 63, 758-765.	4.2	158
17	A chlorinated copolymer donor demonstrates a 18.13% power conversion efficiency. Journal of Semiconductors, 2021, 42, 010501.	2.0	158
18	Violating the Isolated Pentagon Rule (IPR): The Endohedral Non-IPR C70 Cage of Sc3N@C70. Angewandte Chemie - International Edition, 2007, 46, 1256-1259.	7.2	149

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19	Temperature-assisted rapid nucleation: a facile method to optimize the film morphology for perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 20327-20333.	5.2	148
20	Kesterite Cu₂ZnSnS₄ as a Low-Cost Inorganic Hole-Transporting Material for High-Efficiency Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 28466-28473.	4.0	147
21	Electrode performance and analysis of reversible solid oxide fuel cells with proton conducting electrolyte of BaCe0.5Zr0.3Y0.2O3â^Î´. Journal of Power Sources, 2010, 195, 3359-3364.	4.0	145
22	A fast chemical approach towards Sb₂S₃film with a large grain size for high-performance planar heterojunction solar cells. Nanoscale, 2017, 9, 3386-3390.	2.8	145
23	Noncovalent Functionalization of Graphene Attaching [6,6]-Phenyl-C61-butyric Acid Methyl Ester (PCBM) and Application as Electron Extraction Layer of Polymer Solar Cells. ACS Nano, 2013, 7, 4070-4081.	7.3	144
24	Thiolactone copolymer donor gifts organic solar cells a 16.72% efficiency. Science Bulletin, 2019, 64, 1573-1576.	4.3	140
25	Endohedral clusterfullerenesâ€”playing with cluster and cage sizes. Physical Chemistry Chemical Physics, 2007, 9, 3067-3081.	1.3	139
26	Carbonâ€“Oxygenâ€Bridged Ladderâ€Type Building Blocks for Highly Efficient Nonfullerene Acceptors. Advanced Materials, 2019, 31, e1804790.	11.1	139
27	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.	7.8	134
28	Efficiency Enhancement of Inverted Structure Perovskite Solar Cells via Oleamide Doping of PCBM Electron Transport Layer. ACS Applied Materials & Interfaces, 2015, 7, 13659-13665.	4.0	132
29	Deviation from the Planaritya Large Dy3N Cluster Encapsulated in anIh-C80Cage:Â An X-ray Crystallographic and Vibrational Spectroscopic Study. Journal of the American Chemical Society, 2006, 128, 16733-16739.	6.6	129
30	Fullerenes encaging metal clustersâ€”clusterfullerenes. Chemical Communications, 2011, 47, 11822.	2.2	129
31	Azide Passivation of Black Phosphorus Nanosheets: Covalent Functionalization Affords Ambient Stability Enhancement. Angewandte Chemie - International Edition, 2019, 58, 1479-1483.	7.2	123
32	Dithieno[3,2-b:2â€²,3â€²-d]pyrrole-based hole transport materials for perovskite solar cells with efficiencies over 18%. Journal of Materials Chemistry A, 2018, 6, 7950-7958.	5.2	122
33	A Large Family of Dysprosium-based Trimetallic Nitride Endohedral Fullerenes:â€‰ Dy3N@C2n (39 â‰¤ n â‰¤ 44). Journal of Physical Chemistry B, 2005, 109, 12320-12328.	1.2	118
34	CsPb(I Br1â^')3 solar cells. Science Bulletin, 2019, 64, 1532-1539.	4.3	114
35	Solution-Processable Ionic Liquid as an Independent or Modifying Electron Transport Layer for High-Efficiency Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 34464-34473.	4.0	111
36	The Role of an Asymmetric Nitride Cluster on a Fullerene Cage:â€‰ The Non-IPR Endohedral DySc2N@C76. Journal of Physical Chemistry B, 2007, 111, 13659-13663.	1.2	104

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37	n-Type Doping of Sb₂S₃ Light-Harvesting Films Enabling High-Efficiency Planar Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 30314-30321.	4.0	103
38	Bulk heterojunction gifts bismuth-based lead-free perovskite solar cells with record efficiency. Nano Energy, 2020, 68, 104362.	8.2	102
39	Photoconductive Curvedâ€Nanographene/Fullerene Supramolecular Heterojunctions. Angewandte Chemie - International Edition, 2019, 58, 6244-6249.	7.2	99
40	Hybrids of Fullerenes and 2D Nanomaterials. Advanced Science, 2019, 6, 1800941.	5.6	98
41	A Large Ï€â€Extended Carbon Nanoring Based on Nanographene Units: Bottomâ€Up Synthesis, Photophysical Properties, and Selective Complexation with Fullerene C₇₀. Angewandte Chemie - International Edition, 2017, 56, 158-162.	7.2	95
42	C78Cage Isomerism Defined by Trimetallic Nitride Cluster Size:Â A Computational and Vibrational Spectroscopic Study. Journal of Physical Chemistry B, 2007, 111, 3363-3369.	1.2	94
43	Tunneling, remanence, and frustration in dysprosium-based endohedral single-molecule magnets. Physical Review B, 2014, 89, .	1.1	91
44	Functionalization of fullerene materials toward applications in perovskite solar cells. Materials Chemistry Frontiers, 2020, 4, 2256-2282.	3.2	91
45	Surface Modification of TiO2 for Perovskite Solar Cells. Trends in Chemistry, 2020, 2, 148-162.	4.4	91
46	Perovskite-based tandem solar cells. Science Bulletin, 2021, 66, 621-636.	4.3	91
47	A facile mechanochemical route to a covalently bonded graphitic carbon nitride (g-C₃N₄) and fullerene hybrid toward enhanced visible light photocatalytic hydrogen production. Nanoscale, 2017, 9, 5615-5623.	2.8	89
48	Triangular Monometallic Cyanide Cluster Entrapped in Carbon Cage with Geometry-Dependent Molecular Magnetism. Journal of the American Chemical Society, 2016, 138, 14764-14771.	6.6	85
49	Selective Synthesis of Conjugated Chiral Macrocycles: Sidewall Segments of (â^')/(+)â€(12,4) Carbon Nanotubes with Strong Circularly Polarized Luminescence. Angewandte Chemie - International Edition, 2020, 59, 1619-1626.	7.2	85
50	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.	5.2	83
51	A Molecular Switch Based on Current-Driven Rotation of an Encapsulated Cluster within a Fullerene Cage. Nano Letters, 2011, 11, 5327-5332.	4.5	82
52	Seleniumâ€Graded Sb₂(S_{1â^'x}Se_x)₃ for Planar Heterojunction Solar Cell Delivering a Certified Power Conversion Efficiency of 5.71%. Solar Rrl, 2017, 1, 1700017.	3.1	82
53	An Improbable Monometallic Cluster Entrapped in a Popular Fullerene Cage: YCN@Cs(6)-C82. Scientific Reports, 2013, 3, 1487.	1.6	81
54	An endohedral titanium(iii) in a clusterfullerene: putting a non-group-III metal nitride into the C80-Ih fullerene cage. Chemical Communications, 2009, , 6391.	2.2	77

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55	Triple junction polymer solar cells. Energy and Environmental Science, 2013, 6, 3150.	15.6	77
56	Successive surface engineering of TiO₂ compact layers via dual modification of fullerene derivatives affording hysteresis-suppressed high-performance perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 1724-1733.	5.2	77
57	Improving the Conductivity of PEDOT:PSS Hole Transport Layer in Polymer Solar Cells via Copper(II) Bromide Salt Doping. ACS Applied Materials & Interfaces, 2015, 7, 1439-1448.	4.0	76
58	Crystallinity and defect state engineering in organo-lead halide perovskite for high-efficiency solar cells. Journal of Materials Chemistry A, 2016, 4, 3806-3812.	5.2	76
59	Chlorination of C₈₆ to C₈₄Cl₃₂ with Nonclassical Heptagonâ€Containing Fullerene Cage Formed by Cage Shrinkage. Angewandte Chemie - International Edition, 2010, 49, 4784-4787.	7.2	75
60	A Threeâ€Dimensional Capsuleâ€like Carbon Nanocage as a Segment Model of Capped Zigzag [12,0] Carbon Nanotubes: Synthesis, Characterization, and Complexation with C₇₀. Angewandte Chemie - International Edition, 2018, 57, 9330-9335.	7.2	75
61	A 2.16ÂeV bandgap polymer donor gives 16% power conversion efficiency. Science Bulletin, 2020, 65, 179-181.	4.3	75
62	Gadolinium-Based Mixed-Metal Nitride Clusterfullerenes GdxSc3â^'xN@C80 (x=1, 2). ChemPhysChem, 2006, 7, 1990-1995.	1.0	74
63	Efficient inorganic solid solar cells composed of perovskite and PbS quantum dots. Nanoscale, 2015, 7, 9902-9907.	2.8	73
64	Nonconjugated Polymer Poly(vinylpyrrolidone) as an Efficient Interlayer Promoting Electron Transport for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 32957-32964.	4.0	73
65	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.	4.0	73
66	Fe3O4 nanoparticles induced magnetic field effect on efficiency enhancement of P3HT:PCBM bulk heterojunction polymer solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 2880-2885.	3.0	70
67	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.	5.2	70
68	Surface plasmon enhancement of polymer solar cells by penetrating Au/SiO2 core/shell nanoparticles into all organic layers. Nano Energy, 2013, 2, 906-915.	8.2	69
69	Directly bonded hybrid of graphene nanoplatelets and fullerene: facile solid-state mechanochemical synthesis and application as carbon-based electrocatalyst for oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 4139-4146.	5.2	68
70	Carbon Pyramidalization in Fullerene Cages Induced by the Endohedral Cluster: Nonâ€Scandium Mixed Metal Nitride Clusterfullerenes. Angewandte Chemie - International Edition, 2008, 47, 8196-8200.	7.2	67
71	Langmuirâ^'Blodgett Films of Poly(3-hexylthiophene) Doped with the Endohedral Metallofullerene Dy@C82:Â Preparation, Characterization, and Application in Photoelectrochemical Cells. Journal of Physical Chemistry B, 2004, 108, 4394-4404.	1.2	65
72	Triple cation additive NH₃⁺C₂H₄NH₂⁺C₂H₄NH<sub> phase-stable inorganic Î±-CsPbI₃ perovskite films for use in solar cells. Journal of Materials Chemistry A, 2018, 6, 18258-18266.	5.2	65

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73	Mononuclear Clusterfullerene Singleâ€Molecule Magnet Containing Strained Fusedâ€Pentagons Stabilized by a Nearly Linear Metal Cyanide Cluster. Angewandte Chemie - International Edition, 2017, 56, 1830-1834.	7.2	64
74	A Facile Route to the Non-IPR Fullerene Sc3N@C68: Synthesis, Spectroscopic Characterization, and Density Functional Theory Computations (IPR=Isolated Pentagon Rule). Chemistry - A European Journal, 2006, 12, 7856-7863.	1.7	62
75	Mixed Metal Nitride Clusterfullerenes in Cage Isomers: Lu_xSc_{3â^'x}N@C₈₀ (x = 1, 2) As Compared with M_xSc_{3â^'x}N@C₈₀ (M = Er, Dy, Gd, Nd). Journal of Physical Chemistry C, 2009, 113, 7616-7623.	1.5	62
76	Surface Aligned Magnetic Moments and Hysteresis of an Endohedral Single-Molecule Magnet on a Metal. Physical Review Letters, 2015, 114, 087201.	2.9	62
77	Surface Disinfection Enabled by a Layer-by-Layer Thin Film of Polyelectrolyte-Stabilized Reduced Graphene Oxide upon Solar Near-Infrared Irradiation. ACS Applied Materials & Interfaces, 2015, 7, 10511-10517.	4.0	62
78	Phase Engineering of Perovskite Materials for High-Efficiency Solar Cells: Rapid Conversion of CH₃NH₃PbI₃ to Phase-Pure CH₃NH₃PbCl₃ via Hydrochloric Acid Vapor Annealing Post-Treatment. ACS Applied Materials & Interfaces, 2018, 10, 1897-1908.	4.0	62
79	CsPbI2.25Br0.75 solar cells with 15.9% efficiency. Science Bulletin, 2019, 64, 507-510.	4.3	62
80	Unveiling Metal-Cage Hybrid States in a Single Endohedral Metallofullerene. Physical Review Letters, 2003, 91, 185504.	2.9	61
81	Expanding the Number of Stable Isomeric Structures of the C80 Cage: A New Fullerene Dy3N@C80. Chemistry - A European Journal, 2006, 12, 413-419.	1.7	61
82	Titanium/Yttrium Mixed Metal Nitride Clusterfullerene TiY₂N@C₈₀: Synthesis, Isolation, and Effect of the Group-III Metal. Inorganic Chemistry, 2012, 51, 3039-3045.	1.9	61
83	Efficiency Enhancement of Polymer Solar Cells by Applying Poly(vinylpyrrolidone) as a Cathode Buffer Layer via Spin Coating or Self-Assembly. ACS Applied Materials & Interfaces, 2013, 5, 26-34.	4.0	61
84	In Situ Surface Fluorination of TiO₂ Nanocrystals Reinforces Interface Binding of Perovskite Layer for Highly Efficient Solar Cells with Dramatically Enhanced Ultravioletâ€Light Stability. Advanced Science, 2021, 8, 2004662.	5.6	61
85	The Isomers of Gadolinium Scandium Nitride Clusterfullerenes Gd_xSc_{3â^'x}N@C₈₀ (x=1, 2) and Their Influence on Cluster Structure. Chemistry - A European Journal, 2008, 14, 2084-2092.	1.7	60
86	Entrapping a Group-VB Transition Metal, Vanadium, within an Endohedral Metallofullerene: V_xSc_{3â€“x}N@I_h-C₈₀ (x = 1, 2). Journal of the American Chemical Society, 2016, 138, 207-214.	6.6	60
87	A cycloparaphenylene nanoring with graphenic hexabenzocoronene sidewalls. Chemical Communications, 2016, 52, 7164-7167.	2.2	59
88	Iron-phthalocyanine molecular junction with high spin filter efficiency and negative differential resistance. Journal of Chemical Physics, 2012, 136, 064707.	1.2	58
89	Di- and Tridysprosium Endohedral Metallofullerenes with Cages from C94 to C100. Angewandte Chemie - International Edition, 2006, 45, 1299-1302.	7.2	56
90	Putting a Terbium-Monometallic Cyanide Cluster into the C₈₂ Fullerene Cage: TbCN@C₂(5)-C₈₂. Inorganic Chemistry, 2014, 53, 5201-5205.	1.9	56

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91	Acetate Salts as Nonhalogen Additives To Improve Perovskite Film Morphology for High-Efficiency Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 15333-15340.	4.0	56
92	Spin-Flow Vibrational Spectroscopy of Molecules with Flexible Spin Density: Electrochemistry, ESR, Cluster and Spin Dynamics, and Bonding in TiSc₂N@C₈₀. ACS Nano, 2010, 4, 4857-4871.	7.3	55
93	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.	5.2	55
94	Charge-Induced Reversible Rearrangement of Endohedral Fullerenes: Electrochemistry of Tridysprosium Nitride Clusterfullerenes Dy3N@C2n (2n=78, 80). Chemistry - A European Journal, 2006, 12, 7848-7855.	1.7	53
95	Higher efficiency perovskite solar cells using additives of LiI, LiTFSI and BMImI in the PbI₂ precursor. Sustainable Energy and Fuels, 2017, 1, 2162-2171.	2.5	53
96	Vacuum assisted solution processing for highly efficient Sb₂S₃ solar cells. Journal of Materials Chemistry A, 2018, 6, 16322-16327.	5.2	53
97	Capturing the Long-Sought Small-Bandgap Endohedral Fullerene Sc₃N@C₈₂ with Low Kinetic Stability. Journal of the American Chemical Society, 2015, 137, 3119-3123.	6.6	52
98	A Large Ï€â€Extended Carbon Nanoring Based on Nanographene Units: Bottomâ€Up Synthesis, Photophysical Properties, and Selective Complexation with Fullerene C 70. Angewandte Chemie, 2017, 129, 164-168.	1.6	52
99	Flexible decapyrrylcorannulene hosts. Nature Communications, 2019, 10, 485.	5.8	52
100	Gain of a 500-fold sensitivity on an intravital MR Contrast Agent based on an endohedral Gadolinium-Cluster-Fullerene-Conjugate: A new chance in cancer diagnostics. International Journal of Medical Sciences, 2010, 7, 136-146.	1.1	51
101	Interface engineering gifts CsPbI2.25Br0.75 solar cells high performance. Science Bulletin, 2019, 64, 1743-1746.	4.3	51
102	C76 fullerene chlorides and cage transformations. Structural and theoretical study. Dalton Transactions, 2011, 40, 11005.	1.6	50
103	Charged States of Sc3N@C68: An In Situ Spectroelectrochemical Study of the Radical Cation and Radical Anion of a Non-IPR Fullerene. Journal of Physical Chemistry A, 2008, 112, 5858-5865.	1.1	49
104	Chlorination of IPR C₁₀₀ Fullerene Affords Unconventional C₉₆Cl₂₀ with a Nonclassical Cage Containing Three Heptagons. Angewandte Chemie - International Edition, 2014, 53, 2460-2463.	7.2	49
105	Efficient and Stable Tin Perovskite Solar Cells by Pyridineâ€Functionalized Fullerene with Reduced Interfacial Energy Loss. Advanced Functional Materials, 2022, 32, .	7.8	49
106	An ethanolamine-functionalized fullerene as an efficient electron transport layer for high-efficiency inverted polymer solar cells. Journal of Materials Chemistry A, 2016, 4, 8072-8079.	5.2	47
107	The Cycloaddition Reaction of I_hâ€Sc₃N@C₈₀ with 2â€Aminoâ€4,5â€diisopropoxybenzoic Acid and Isoamyl Nitrite to Produce an Openâ€Cage Metallofullerene. Angewandte Chemie - International Edition, 2011, 50, 4658-4662.	7.2	46
108	Sequential deposition route to efficient Sb₂S₃ solar cells. Journal of Materials Chemistry A, 2018, 6, 21320-21326.	5.2	46

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109	Six IPR Isomers of C₉₀ Fullerene Captured as Chlorides: Carbon Cage Connectivities and Chlorination Patterns. Chemistry - A European Journal, 2011, 17, 10662-10669.	1.7	45
110	Four Isomers of C₉₆ Fullerene Structurally Proven as C₉₆Cl₂₂ and C₉₆Cl₂₄. Angewandte Chemie - International Edition, 2012, 51, 8239-8242.	7.2	45
111	Preferentially oriented large antimony trisulfide single-crystalline cuboids grown on polycrystalline titania film for solar cells. Communications Chemistry, 2019, 2, .	2.0	45
112	Visible Lightâ€“Induced Degradation of Inverted Polymer:Nonfullerene Acceptor Solar Cells: Initiated by the Light Absorption of ZnO Layer. Solar Rrl, 2021, 5, .	3.1	45
113	An unexpected dual-emissive luminogen with tunable aggregation-induced emission and enhanced chiroptical property. Nature Communications, 2022, 13, .	5.8	45
114	The spin state of a charged non-IPR fullerene: the stable radical cation of Sc3N@C68. Chemical Communications, 2007, , 189-191.	2.2	44
115	Chlorination-Promoted Skeletal Transformations of Fullerenes. Accounts of Chemical Research, 2019, 52, 1783-1792.	7.6	44
116	Large mixed metal nitride clusters encapsulated in a small cage: the confinement of the C68-based clusterfullerenes. Chemical Communications, 2008, , 2885.	2.2	43
117	Cage Shrinkage of Fullerene via a C₂ Loss: from IPR C₉₀(28)Cl₂₄ to Nonclassical, Heptagon-Containing C₈₈Cl_{22/24}. Inorganic Chemistry, 2013, 52, 13821-13823.	1.9	43
118	Induced J-aggregation in acceptor alloy enhances photocurrent. Science Bulletin, 2019, 64, 1083-1086.	4.3	43
119	A Highly Strained Allâ€Phenylene Conjoined Bismacrocycle. Angewandte Chemie - International Edition, 2021, 60, 17368-17372.	7.2	42
120	The Recent State of Endohedral Fullerene Research. Electrochemical Society Interface, 2006, 15, 34-39.	0.3	42
121	New Giant Fullerenes Identified as Chloro Derivatives: Isolated-Pentagon-Rule C₁₀₈(1771)Cl₁₂ and C₁₀₆(1155)Cl₂₄ as well as Nonclassical C₁₀₄Cl₂₄. Inorganic Chemistry, 2016, 55, 5741-5743.	1.9	41
122	A Long Ï€-Conjugated Poly(para-Phenylene)-Based Polymeric Segment of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2019, 141, 18938-18943.	6.6	41
123	Chemical functionalization of <scp>2D</scp> black phosphorus. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 231-251.	8.5	41
124	Oleamide as a self-assembled cathode buffer layer for polymer solar cells: the role of the terminal group on the function of the surfactant. Journal of Materials Chemistry, 2012, 22, 24067.	6.7	40
125	Expanding pore sizes of ZIF-8-derived nitrogen-doped microporous carbon via C₆₀ embedding: toward improved anode performance for the lithium-ion battery. Nanoscale, 2018, 10, 2473-2480.	2.8	40
126	Isopropanol-treated PEDOT:PSS as electron transport layer in polymer solar cells. Organic Electronics, 2014, 15, 3445-3451.	1.4	39

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127	An iron porphyrin-based conjugated network wrapped around carbon nanotubes as a noble-metal-free electrocatalyst for efficient oxygen reduction reaction. Inorganic Chemistry Frontiers, 2016, 3, 821-827.	3.0	39
128	Confining the spin between two metal atoms within the carbon cage: redox-active metalâ€“metal bonds in dimetallofullerenes and their stable cation radicals. Nanoscale, 2017, 9, 7977-7990.	2.8	39
129	Looking inside an endohedral fullerene: inter- and intramolecular ordering of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Dy</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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145	Distinctive Deepâ€Level Defects in Nonâ€Stoichiometric Sb₂Se₃ Photovoltaic Materials. Advanced Science, 2022, 9, e2105268.	5.6	34
146	Revisiting the Preparation of La@C82(I and II) and La2@C80:Â Efficient Production of the â€œMinorâ€• Isomer La@C82(II). Journal of Physical Chemistry B, 2002, 106, 3112-3117.	1.2	33
147	Micron-sized hexagonal single-crystalline rods of metal nitride clusterfullerene: preparation, characterization, and photoelectrochemical application. Nanoscale, 2013, 5, 1993.	2.8	33
148	Increased Efficiency for Perovskite Photovoltaics via Doping the PbI2Layer. Journal of Physical Chemistry C, 2016, 120, 24577-24582.	1.5	33
149	Imidazole-Functionalized Fullerene as a Vertically Phase-Separated Cathode Interfacial Layer of Inverted Ternary Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 2720-2729.	4.0	33
150	Surface Passivation of Perovskite Film by Sodium Toluenesulfonate for Highly Efficient Solar Cells. Solar Rrl, 2020, 4, 2000113.	3.1	33
151	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.	6.2	33
152	A Facile Route to Metal Nitride Clusterfullerenes by Using Guanidinium Salts: A Selective Organic Solid as the Nitrogen Source. Chemistry - A European Journal, 2010, 16, 12398-12405.	1.7	32
153	Synthesis of Pyrene-Substituted Poly(3-hexylthiophene) via Postpolymerization and Its Noncovalent Interactions with Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 4584-4593.	1.5	32
154	The first structural confirmation of a C102 fullerene as C102Cl20 containing a non-IPR carbon cage. Chemical Communications, 2013, 49, 7944.	2.2	32
155	Structures of Chlorinated Fullerenes, IPR C₉₆Cl₂₀ and Nonâ€classical C₉₄Cl₂₈ and C₉₂Cl₃₂: Evidence of the Existence of Three New Isomers of C₉₆. Chemistry - an Asian Journal, 2014, 9, 3102-3105.	1.7	32
156	Modifying Mesoporous TiO2 by Ammonium Sulfonate Boosts Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 12696-12705.	4.0	32
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