

Jiannian Yao

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289
papers

10,253
citations

54
h-index

88
g-index

308
ext. papers

11,913
ext. citations

9.9
avg, IF

6.73
L-index

#	Paper	IF	Citations
289	Scalable Fabrication of Nanoporous Carbon Fiber Films as Bifunctional Catalytic Electrodes for Flexible Zn-Air Batteries. <i>Advanced Materials</i> , 2016 , 28, 3000-6	24	508
288	Low-Dimensional Nanomaterials Based on Small Organic Molecules: Preparation and Optoelectronic Properties. <i>Advanced Materials</i> , 2008 , 20, 2859-2876	24	354
287	Perovskite Microdisk Microlasers Self-Assembled from Solution. <i>Advanced Materials</i> , 2015 , 27, 3405-10	24	297
286	Design of Diketopyrrolopyrrole (DPP)-Based Small Molecules for Organic-Solar-Cell Applications. <i>Advanced Materials</i> , 2017 , 29, 1600013	24	223
285	Organic Micro/Nanoscale Lasers. <i>Accounts of Chemical Research</i> , 2016 , 49, 1691-700	24.3	214
284	Photochromic materials based on tungsten oxide. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4547		203
283	Facile preparation of N- and O-doped hollow carbon spheres derived from poly(o-phenylenediamine) for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3409-3415	13	196
282	A nonfullerene acceptor with a 1000 nm absorption edge enables ternary organic solar cells with improved optical and morphological properties and efficiencies over 15%. <i>Energy and Environmental Science</i> , 2019 , 12, 2529-2536	35.4	188
281	Ternary Blended Fullerene-Free Polymer Solar Cells with 16.5% Efficiency Enabled with a Higher-LUMO-Level Acceptor to Improve Film Morphology. <i>Advanced Energy Materials</i> , 2019 , 9, 1901728	21.8	181
280	Controlling the Cavity Structures of Two-Photon-Pumped Perovskite Microlasers. <i>Advanced Materials</i> , 2016 , 28, 4040-6	24	172
279	Metal-Free Fluorine-Doped Carbon Electrocatalyst for CO Reduction Outcompeting Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9640-9644	16.4	151
278	Low-threshold wavelength-switchable organic nanowire lasers based on excited-state intramolecular proton transfer. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7125-9	16.4	150
277	PeryleneDiimide Based Non-Fullerene Solar Cells with 4.34% Efficiency through Engineering Surface Donor/Acceptor Compositions. <i>Chemistry of Materials</i> , 2014 , 26, 2907-2914	9.6	145
276	New advances in non-fullerene acceptor based organic solar cells. <i>RSC Advances</i> , 2015 , 5, 93002-93026	3.7	138
275	2D Ruddlesden-Popper Perovskites Microring Laser Array. <i>Advanced Materials</i> , 2018 , 30, e1706186	24	135
274	Organic printed photonics: From microring lasers to integrated circuits. <i>Science Advances</i> , 2015 , 1, e1500253	14.3	131
273	Output Coupling of Perovskite Lasers from Embedded Nanoscale Plasmonic Waveguides. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2122-5	16.4	115

272	Broadband Tunable Microlasers Based on Controlled Intramolecular Charge-Transfer Process in Organic Supramolecular Microcrystals. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1118-21	16.4	110
271	Two-State Reactivity in Low-Valent Iron-Mediated C-H Activation and the Implications for Other First-Row Transition Metals. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3715-30	16.4	108
270	Single Crystalline Submicrotubes from Small Organic Molecules. <i>Chemistry of Materials</i> , 2005 , 17, 6430-6435	9.5	106
269	Assessment of Theoretical Methods for Complexes of Gold(I) and Gold(III) with Unsaturated Aliphatic Hydrocarbon: Which Density Functional Should We Choose?. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 4002-11	6.4	101
268	Phase- and Shape-Controlled Synthesis of Single Crystalline Perylene Nanosheets and Its Optical Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10038-10043	3.8	96
267	A Two-Dimensional Hole-Transporting Material for High-Performance Perovskite Solar Cells with 20 % Average Efficiency. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10959-10965	16.4	95
266	Full-color laser displays based on organic printed microlaser arrays. <i>Nature Communications</i> , 2019 , 10, 870	17.4	89
265	Amplified Spontaneous Emission Based on 2D Ruddlesden-Popper Perovskites. <i>Advanced Functional Materials</i> , 2018 , 28, 1707006	15.6	88
264	Dual-color single-mode lasing in axially coupled organic nanowire resonators. <i>Science Advances</i> , 2017 , 3, e1700225	14.3	88
263	Silver Nanoparticles Stabilized by Thermoresponsive Microgel Particles: Synthesis and Evidence of an Electron Donor-Acceptor Effect. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 2339-2345	4.8	85
262	Chemical redox modulated fluorescence of nitrogen-doped graphene quantum dots for probing the activity of alkaline phosphatase. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 271-277	11.8	82
261	A Molecular Platform for Multistate Near-Infrared Electrochromism and Flip-Flop, Flip-Flap-Flop, and Ternary Memory. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9192-7	16.4	79
260	Chemically responsive luminescent switching in transparent flexible self-supporting [EuW10O36]9H ₂ O agarose nanocomposite thin films. <i>Journal of Materials Chemistry</i> , 2010 , 20, 271-277		79
259	"Capillary-Bridge Lithography" for Patterning Organic Crystals toward Mode-Tunable Microlaser Arrays. <i>Advanced Materials</i> , 2017 , 29, 1603652	24	77
258	Electronic coupling in cyclometalated ruthenium complexes. <i>Coordination Chemistry Reviews</i> , 2016 , 312, 22-40	23.2	71
257	Self-Assembled Microdisk Lasers of Perylenediimides. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15105-11	16.4	71
256	Green chemical decoration of multiwalled carbon nanotubes with polyoxometalate-encapsulated gold nanoparticles: visible light photocatalytic activities. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2282-2287		71
255	Three-state near-infrared electrochromism at the molecular scale. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4058-61	16.4	69

- 254 Cobalt layered double hydroxide nanosheets synthesized in water/methanol solution as oxygen evolution electrocatalysts. *Journal of Materials Chemistry A*, **2018**, 6, 5999-6006 13 69
- 253 Photonic applications of one-dimensional organic single-crystalline nanostructures: optical waveguides and optically pumped lasers. *Journal of Materials Chemistry*, **2012**, 22, 4136-4140 69
- 252 Why Is Cobalt the Best Transition Metal in Transition-Metal Hangman Corroles for O-O Bond Formation during Water Oxidation?. *Journal of Physical Chemistry Letters*, **2012**, 3, 2315-9 6.4 69
- 251 Facile synthesis of a Ag nanoparticle/polyoxometalate/carbon nanotube tri-component hybrid and its activity in the electrocatalysis of oxygen reduction. *Journal of Materials Chemistry*, **2011**, 21, 14917 69
- 250 Impact of Intermolecular Distance on Singlet Fission in a Series of TIPS Pentacene Compounds. *Journal of Physical Chemistry Letters*, **2014**, 5, 3451-5 6.4 68
- 249 2,4,5-Triphenylimidazole Nanowires with Fluorescence Narrowing Spectra Prepared through the Adsorbent-Assisted Physical Vapor Deposition Method. *Chemistry of Materials*, **2006**, 18, 2302-2306 9.6 68
- 248 Electropolymerized films as a molecular platform for volatile memory devices with two near-infrared outputs and long retention time. *Chemical Science*, **2014**, 5, 932-941 9.4 66
- 247 Significant improvement of photovoltaic performance by embedding thiophene in solution-processed star-shaped TPA-DPP backbone. *Journal of Materials Chemistry A*, **2013**, 1, 5747 13 65
- 246 In Situ Visualization of Assembly and Photonic Signal Processing in a Triplet Light-Harvesting Nanosystem. *Journal of the American Chemical Society*, **2018**, 140, 4269-4278 16.4 64
- 245 Room-Temperature Phosphorescence in Pure Organic Materials: Halogen Bonding Switching Effects. *Chemistry - A European Journal*, **2018**, 24, 1801-1805 4.8 64
- 244 Benzodithiophene bridged dimeric perylene diimide amphiphiles as efficient solution-processed non-fullerene small molecules. *Polymer Chemistry*, **2013**, 4, 4631 4.9 64
- 243 A general green strategy for fabricating metal nanoparticles/polyoxometalate/graphene tri-component nanohybrids: enhanced electrocatalytic properties. *Journal of Materials Chemistry*, **2012**, 22, 3319 64
- 242 Multishelled Co₃O₄-Fe₃O₄ hollow spheres with even magnetic phase distribution: Synthesis, magnetic properties and their application in water treatment. *Journal of Materials Chemistry*, **2011**, 21, 17680 63
- 241 Fused-Ring Nonfullerene Acceptor Forming Interpenetrating J-Architecture for Fullerene-Free Polymer Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1800204 21.8 60
- 240 Reversible Aqueous Zinc-CO Batteries Based on CO -HCOOH Interconversion. *Angewandte Chemie - International Edition*, **2018**, 57, 16996-17001 16.4 60
- 239 Tuning of resistive memory switching in electropolymerized metallopolymeric films. *Chemical Science*, **2015**, 6, 1308-1315 9.4 59
- 238 Design and Fabrication of Rocketlike Tetrapodal CdS Nanorods by Seed-Epitaxial Metal/Organic Chemical Vapor Deposition. *Crystal Growth and Design*, **2007**, 7, 488-491 3.5 59
- 237 Flat-Panel Laser Displays Based on Liquid Crystal Microlaser Arrays. *CCS Chemistry*, **2020**, 2, 369-375 7.2 57

236	A facile synthesis and lithium storage properties of Co ₃ O ₄ /C hybrid core-shell and hollow spheres. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17998		55
235	Enhancing multiphoton upconversion through interfacial energy transfer in multilayered nanoparticles. <i>Nature Communications</i> , 2020 , 11, 1174	17.4	54
234	Self-assembly of CdS quantum dots with polyoxometalate encapsulated gold nanoparticles: enhanced photocatalytic activities. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1488-1494	13	54
233	Origin of effects of additive solvent on film-morphology in solution-processed nonfullerene solar cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6462-71	9.5	53
232	Metal-Free Fluorine-Doped Carbon Electrocatalyst for CO ₂ Reduction Outcompeting Hydrogen Evolution. <i>Angewandte Chemie</i> , 2018 , 130, 9788-9792	3.6	53
231	How Accurate Can a Local Coupled Cluster Approach Be in Computing the Activation Energies of Late-Transition-Metal-Catalyzed Reactions with Au, Pt, and Ir?. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 3119-27	6.4	53
230	Ir(ppy) ₃ phosphorescent microrods and nanowires: promising micro-phosphors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 89-96		53
229	Tunable Near-Infrared Organic Nanowire Nanolasers. <i>Advanced Functional Materials</i> , 2017 , 27, 1703470	15.6	52
228	Understanding the Effects of Bidentate Directing Groups: A Unified Rationale for sp(2) and sp(3) C-H Bond Activations. <i>Journal of Organic Chemistry</i> , 2015 , 80, 4672-82	4.2	52
227	Dual-Wavelength Switchable Vibronic Lasing in Single-Crystal Organic Microdisks. <i>Nano Letters</i> , 2017 , 17, 91-96	11.5	51
226	Highly Efficient Room-Temperature Phosphorescence from Halogen-Bonding-Assisted Doped Organic Crystals. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 8652-8658	2.8	51
225	A Two-Dimensional Ruddlesden-Popper Perovskite Nanowire Laser Array based on Ultrafast Light-Harvesting Quantum Wells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7748-7752	16.4	49
224	Accessing the Triplet State in Heavy-Atom-Free Perylene Diimides. <i>Chemistry - A European Journal</i> , 2016 , 22, 4717-22	4.8	49
223	Organic composite nanomaterials: energy transfers and tunable luminescent behaviors. <i>New Journal of Chemistry</i> , 2011 , 35, 973	3.6	48
222	Morphology-tunable In ₂ Se ₃ nanostructures with enhanced electrical and photoelectrical performances via sulfur doping. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6630		48
221	Photoluminescent Anisotropy Amplification in Polymorphic Organic Nanocrystals by Light-Harvesting Energy Transfer. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6157-6161	16.4	47
220	Controlling the Structures and Photonic Properties of Organic Nanomaterials by Molecular Design. <i>Angewandte Chemie</i> , 2013 , 125, 8875-8879	3.6	47
219	Self-Assembly of Perylenediimide Nanobelts and Their Size-Tunable Exciton Dynamic Properties. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2163-2167	6.4	47

218	Two-Dimensional Pyramid-like WS Layered Structures for Highly Efficient Edge Second-Harmonic Generation. <i>ACS Nano</i> , 2018 , 12, 689-696	16.7	46
217	Rechargeable Zn-CO Electrochemical Cells Mimicking Two-Step Photosynthesis. <i>Advanced Materials</i> , 2019 , 31, e1807807	24	45
216	Molecular Interaction between a Gadolinium Polyoxometalate and Human Serum Albumin. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 5189-5193	2.3	45
215	Lattice-Matched Epitaxial Growth of Organic Heterostructures for Integrated Optoelectronic Application. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3616-3620	16.4	44
214	Are DFT Methods Accurate in Mononuclear Ruthenium-Catalyzed Water Oxidation? An ab Initio Assessment. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1872-9	6.4	42
213	Comparative Study of Effects of Terminal Non-Alkyl Aromatic and Alkyl Groups on Small-Molecule Solar Cell Performance. <i>Advanced Energy Materials</i> , 2015 , 5, 1500059	21.8	40
212	Effects of structure-manipulated molecular stacking on solid-state optical properties and device performances. <i>Polymer Chemistry</i> , 2012 , 3, 2832	4.9	40
211	Synthesis and applications of organic nanorods, nanowires and nanotubes. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2013 , 109, 211		40
210	Perferryl Fe(V)-Oxo Nonheme Complexes: Do They Have High-Spin or Low-Spin Ground States?. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 3049-53	6.4	40
209	Atomic iridium@cobalt nanosheets for dinuclear tandem water oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8376-8383	13	39
208	High photocatalytic activity of carbon doped TiO ₂ prepared by fast combustion of organic capping ligands. <i>RSC Advances</i> , 2015 , 5, 93635-93643	3.7	39
207	Asymmetric photon transport in organic semiconductor nanowires through electrically controlled exciton diffusion. <i>Science Advances</i> , 2018 , 4, eaap9861	14.3	39
206	Transparent and flexible phosphomolybdate@agarose composite thin films with visible-light photochromism. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1107-1111		39
205	Tailoring the structures and compositions of one-dimensional organic nanomaterials towards chemical sensing applications. <i>Chemical Science</i> , 2014 , 5, 52-57	9.4	38
204	Rapid room-temperature synthesis of silver nanoplates with tunable in-plane surface plasmon resonance from visible to near-IR. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2673		38
203	All-Color Subwavelength Output of Organic Flexible Microlasers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11329-11332	16.4	37
202	Which Density Functional Is the Best in Computing C-H Activation Energies by Pincer Complexes of Late Platinum Group Metals?. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 2991-6	6.4	37
201	Organic Janus Microspheres: A General Approach to All-Color Dual-Wavelength Microlasers. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5116-5120	16.4	36

200	Guest-dependent directional complexation based on triptycene derived oxacalixarene: formation of oriented rotaxanes. <i>Chemical Science</i> , 2016 , 7, 469-474	9.4	36
199	Effect of PVA on the growth and the optical properties of perylene nanocrystals. <i>New Journal of Chemistry</i> , 2001 , 25, 1362-1364	3.6	35
198	A High-Performance Non-Fullerene Acceptor Compatible with Polymers with Different Bandgaps for Efficient Organic Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800376	7.1	34
197	Controlled synthesis of double-shelled CeO ₂ hollow spheres and enzyme-free electrochemical bio-sensing properties for uric acid. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17079		34
196	Synthesis and Cathodoluminescence of Morphology-Tunable SiO ₂ Nanotubes and ZnS/SiO ₂ Core-Shell Structures Using CdSe Nanocrystals as the Seeds. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11604-11611	3.8	34
195	Construction of Nanowire Heterojunctions: Photonic Function-Oriented Nanoarchitectonics. <i>Advanced Materials</i> , 2016 , 28, 1319-26	24	33
194	Cooperatively Tuning Phase Size and Absorption of Near IR Photons in P3HT:Perylene Diimide Solar Cells by Bay-Modifications on the Acceptor. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24212-24220	3.8	33
193	Stimulated Emission-Controlled Photonic Transistor on a Single Organic Triblock Nanowire. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13147-13150	16.4	33
192	Proton-Controlled Organic Microlaser Switch. <i>ACS Nano</i> , 2018 , 12, 5734-5740	16.7	33
191	High-Efficiency Nonfullerene Polymer Solar Cell Enabling by Integration of Film-Morphology Optimization, Donor Selection, and Interfacial Engineering. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15415-21	9.5	32
190	Low-Threshold Wavelength-Switchable Organic Nanowire Lasers Based on Excited-State Intramolecular Proton Transfer. <i>Angewandte Chemie</i> , 2015 , 127, 7231-7235	3.6	32
189	An Organic Microlaser Array Based on a Lateral Microcavity of a Single J-aggregation Microbelt. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7037-41	16.4	31
188	Excimer Emission in Self-Assembled Organic Spherical Microstructures: An Effective Approach to Wavelength Switchable Microlasers. <i>Advanced Optical Materials</i> , 2016 , 4, 1009-1014	8.1	31
187	Lanthanide MOFs for inducing molecular chirality of achiral stilbazolium with strong circularly polarized luminescence and efficient energy transfer for color tuning. <i>Chemical Science</i> , 2020 , 11, 9154-9161	9.4	31
186	Combined Experimental and Computational Study of Pyren-2,7-diyl-Bridged Diruthenium Complexes with Various Terminal Ligands. <i>Inorganic Chemistry</i> , 2015 , 54, 4688-98	5.1	29
185	Promoted phase transition of titania nanoparticles prepared by a photo-assisted sol-gel method. <i>New Journal of Chemistry</i> , 2002 , 26, 975-977	3.6	29
184	Engineering Platinum-Oxygen Dual Catalytic Sites via Charge Transfer towards Highly Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17712-17718	16.4	28
183	Basic amino acid induced isomerization of a spiropyran: towards visual recognition of basic amino acids in water. <i>New Journal of Chemistry</i> , 2007 , 31, 1878	3.6	28

182	High-Performance Solution-Processed Single-Junction Polymer Solar Cell Achievable by Post-Treatment of PEDOT:PSS Layer with Water-Containing Methanol. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1446-1452	9.5	27
181	In-depth understanding of photocurrent enhancement in solution-processed small-molecule:perylene diimide non-fullerene organic solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1961-1968	1.6	27
180	A new solution-processed diketopyrrolopyrrole donor for non-fullerene small-molecule solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1869-1876	13	27
179	Wide band gap copolymers based on phthalimide: synthesis, characterization, and photovoltaic properties with 3.70% efficiency. <i>Polymer Chemistry</i> , 2013 , 4, 2174	4.9	27
178	An application of AAO template: orderly assembled organic molecules for surface-enhanced Raman scattering. <i>Journal of Materials Chemistry</i> , 2008 , 18, 133-138		27
177	Regulating Charge Transfer of Lattice Oxygen in Single-Atom-Doped Titania for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15855-15859	16.4	26
176	Thermal-Responsive Phosphorescent Nanoamplifiers Assembled from Two Metallophosphors. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7820-7825	16.4	26
175	Porous hydrogen-bonded organic/inorganic frameworks: weak interactions and selective dye filtration. <i>CrystEngComm</i> , 2017 , 19, 613-617	3.3	25
174	High-efficiency quaternary polymer solar cells enabled with binary fullerene additives to reduce nonfullerene acceptor optical band gap and improve carriers transport. <i>Science China Chemistry</i> , 2018 , 61, 1609-1618	7.9	25
173	Tuning the organic microcrystal laser wavelength of ESIPT-active compounds via controlling the excited enol* and keto* emissions. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12235-12240	7.1	25
172	A New Function of N719: N719 Based Solution-Processible Binary Cathode Buffer Layer Enables High-Efficiency Single-Junction Polymer Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 1700014	7.1	24
171	Water-Resistant Perovskite Polygonal Microdisks Laser in Flexible Photonics Devices. <i>Advanced Optical Materials</i> , 2016 , 4, 1718-1725	8.1	24
170	Synthesis and charge-transporting properties of electron-deficient CN2-fluorene based DA copolymers. <i>Polymer Chemistry</i> , 2012 , 3, 2170	4.9	24
169	An Optically Reconfigurable Föster Resonance Energy Transfer Process for Broadband Switchable Organic Single-Mode Microlasers. <i>CCS Chemistry</i> , 624-632	7.2	24
168	Factors That Control the Reactivity of Cobalt(III)-Nitrosyl Complexes in Nitric Oxide Transfer and Dioxygenation Reactions: A Combined Experimental and Theoretical Investigation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7753-7762	16.4	24
167	Complex assembly from planar and twisted π -conjugated molecules towards alloy helices and core-shell structures. <i>Nature Communications</i> , 2018 , 9, 4358	17.4	24
166	Exciton funneling in light-harvesting organic semiconductor microcrystals for wavelength-tunable lasers. <i>Science Advances</i> , 2019 , 5, eaaw2953	14.3	23
165	Successive Cu/Pd transmetalation relay catalysis in stereoselective synthesis of tetraarylethenes. <i>Organic Chemistry Frontiers</i> , 2015 , 2, 1366-1373	5.2	23

164	Acid-promoted bicyclization of arylacetylenes to benzobicyclo[3.2.1]octanes through cationic rearrangements. <i>Chemical Communications</i> , 2016 , 52, 4537-40	5.8	23
163	Understanding Solvent Manipulation of Morphology in Bulk-Heterojunction Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2620-2632	4.5	23
162	3D Laser Displays Based on Circularly Polarized Lasing from Cholesteric Liquid Crystal Arrays. <i>Advanced Materials</i> , 2021 , 33, e2104418	24	23
161	A Photoisomerization-Activated Intramolecular Charge-Transfer Process for Broadband-Tunable Single-Mode Microlasers. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15992-15996	16.4	22
160	An integrated instrument of DUV-IR photoionization mass spectrometry and spectroscopy for neutral clusters. <i>Review of Scientific Instruments</i> , 2019 , 90, 073101	1.7	22
159	Synthesis and photovoltaic properties of low bandgap dimeric perylene diimide based non-fullerene acceptors. <i>Science China Chemistry</i> , 2016 , 59, 209-217	7.9	22
158	Ideal N-doped carbon nanoarchitectures evolved from fibrils for highly efficient oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19765-19770	13	21
157	Spin-Orbit Coupling and Outer-Core Correlation Effects in Ir- and Pt-Catalyzed C-H Activation. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 1641-5	6.4	21
156	Cubic nickel frames: one-pot synthesis, magnetic properties and application in water treatment. <i>CrystEngComm</i> , 2012 , 14, 7616	3.3	21
155	Solution-based patterned growth of rubrene nanocrystals for organic field effect transistors. <i>Applied Physics Letters</i> , 2009 , 95, 263312	3.4	21
154	Synthesis and characterization of new layered polyoxometallates π ,10-decanediamine intercalative nanocomposites. <i>Journal of Materials Research</i> , 2004 , 19, 496-500	2.5	21
153	Benzoindolic squaraine dyes with a large two-photon absorption cross-section. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1224-1230	7.1	20
152	Nonaqueous synthesis of TiO ₂ π carbon hybrid nanomaterials with enhanced stable photocatalytic hydrogen production activity. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10060-10068	13	20
151	A theoretical study of weak interactions in phenylenediamine homodimer clusters. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 29249-29257	3.6	20
150	Charge-transfer interactions between TCNQ and silver clusters Ag ₂₀ and Ag ₁₃ . <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7190-6	3.6	19
149	Single-molecule level control of host-guest interactions in metallocycle-C complexes. <i>Nature Communications</i> , 2019 , 10, 4599	17.4	19
148	A Novel BODIPY-Based Low-Band-Gap Small-Molecule Acceptor for Efficient Non-fullerene Polymer Solar Cells. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 1813-1823	4.9	19
147	Transition from a Metal-Localized Mixed-Valence Compound to a Fully Delocalized and Bridge-Biased Electrophore in a Ruthenium-Amine-Ruthenium Tricenter System. <i>Chemistry - A European Journal</i> , 2016 , 22, 10341-5	4.8	19

- 146 Photonic skins based on flexible organic microlaser arrays. *Science Advances*, **2021**, 7, 14.3 19
- 145 Tetraphenylphosphonium Bromide as a Cathode Buffer Layer Material for Highly Efficient Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 5569-5576 9.5 18
- 144 Theoretical Study of Tetrahydrofuran-Stabilized Al₁₃ Superatom Cluster. *Journal of Physical Chemistry A*, **2016**, 120, 3950-7 2.8 18
- 143 Performance enhancement of BODIPY dimer-based small-molecule solar cells using a visible-photon-capturing diketopyrrolopyrrole bridge. *RSC Advances*, **2015**, 5, 74238-74241 3.7 17
- 142 A Molecular Platform for Multistate Near-Infrared Electrochromism and Flip-Flop, Flip-Flap-Flop, and Ternary Memory. *Angewandte Chemie*, **2015**, 127, 9324-9329 3.6 17
- 141 Single-molecule surface-enhanced Raman scattering of fullerene C₆₀. *Journal of Raman Spectroscopy*, **2011**, 42, 319-323 2.3 17
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