

Weiyou Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

569
papers

17,989
citations

63
h-index

105
g-index

606
ext. papers

20,637
ext. citations

7.2
avg, IF

7.23
L-index

#	Paper	IF	Citations
569	Computational Discovery of the Qualitative Electronegativity Wettability Relationship in High-Temperature Ceramics-Supported TiAl Alloys. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 2207-2213	3.8	0
568	Novel Oligomer Enables Green Solvent Processed 17.5% Ternary Organic Solar Cells: Synergistic Energy Loss Reduction and Morphology Fine-tuning.. <i>Advanced Materials</i> , 2022 , e2107659	24	14
567	Rationally designed hierarchical SiC@PANI core/shell nanowire arrays: Toward high-performance supercapacitors with high-rate performance and robust stability. <i>Electrochimica Acta</i> , 2022 , 406, 139867	6.7	0
566	Fe,N-modulated carbon fibers aerogel as freestanding cathode catalyst for rechargeable ZnAir battery. <i>Carbon</i> , 2022 , 187, 196-206	10.4	7
565	Applications of 1D Mesoporous Inorganic Nanomaterials in Supercapacitors. <i>Springer Series in Materials Science</i> , 2022 , 129-141	0.9	
564	Fabrication of Mesoporous Inorganic Nanotubes. <i>Springer Series in Materials Science</i> , 2022 , 55-73	0.9	
563	One-Dimensional Mesoporous Inorganic Nanomaterials, What Are They?. <i>Springer Series in Materials Science</i> , 2022 , 3-8	0.9	0
562	Applications of 1D Mesoporous Inorganic Nanomaterials in Photocatalysis. <i>Springer Series in Materials Science</i> , 2022 , 143-156	0.9	
561	Preparation of Mesoporous Inorganic Nanowires, Nanorods, Nanofibers and Nanobelts. <i>Springer Series in Materials Science</i> , 2022 , 21-54	0.9	
560	Synthesis of More Representative 1D Mesoporous Inorganic Nanomaterials. <i>Springer Series in Materials Science</i> , 2022 , 75-85	0.9	
559	Characterization of 1D Mesoporous Inorganic Nanomaterials. <i>Springer Series in Materials Science</i> , 2022 , 9-17	0.9	
558	Donor-acceptor-donor type organic spacer for regulating the quantum wells of Dion-Jacobson 2D perovskites. <i>Nano Energy</i> , 2022 , 93, 106800	17.1	3
557	Rationally designed Ta3N5/ZnIn2S4 1D/2D heterojunctions for boosting Visible-Light-driven hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022 , 431, 134053	14.7	5
556	MOF-5 as anodes for high-temperature potassium-ion batteries with ultrahigh stability. <i>Chemical Engineering Journal</i> , 2022 , 432, 134416	14.7	3
555	Superior integrated field emission cathode with ultralow turn-on field and high stability based on SiC nanocone arrays. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 806	3.8	0
554	MXenes-like multilayered tungsten oxide architectures for efficient photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2022 , 430, 132936	14.7	5
553	Embedded FeCo alloy nanoparticles in N-doped mesoporous carbon nanofibers as efficient Bi-functional electrocatalysts for Long-Term rechargeable Zn-Air batteries. <i>Applied Surface Science</i> , 2022 , 571, 151292	6.7	0

552	High-performance supercapacitors based on free-standing SiC@PEDOT nanowires with robust cycling stability. <i>Journal of Energy Chemistry</i> , 2022 , 66, 30-37	12	6
551	Rationally designed Ti ₃ C ₂ MXene@TiO ₂ /CuInS ₂ Schottky/S-scheme integrated heterojunction for enhanced photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022 , 429, 132381	14.7	26
550	Introducing a redox-active ferrocenyl moiety onto a polythiophene derivative towards high-performance flexible all-solid-state symmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7968-7977	13	1
549	Integrated Bifunctional Electrodes Based on Amorphous Co-Ni-S Nanoflake Arrays with Atomic Dispersity of Active Sites for Overall Water Splitting.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	4
548	Cadmium-Doped Zinc Sulfide Shell as a Hole Injection Springboard for Red, Green, and Blue Quantum Dot Light-Emitting Diodes.. <i>Advanced Science</i> , 2022 , e2104488	13.6	3
547	A pH-Dependent rhodamine fluorophore with antiproliferative activity of bladder cancer in Vitro/Vivo and apoptosis mechanism.. <i>European Journal of Medicinal Chemistry</i> , 2022 , 236, 114293	6.8	0
546	Nickel- and Palladium-Catalyzed Cross-Coupling of Stibines with Organic Halides: Site-Selective Sequential Reactions with Polyhalogenated Arenes. <i>ACS Catalysis</i> , 2022 , 12, 854-867	13.1	1
545	Rational fabrication of S-modified Fe ₃ O ₄ nanosheet electrocatalysts for efficient and stable pH-universal oxygen reduction. <i>Chemical Engineering Journal</i> , 2022 , 136433	14.7	4
544	NIR-II J-Aggregated Pt(II)-Porphyrin-Based Phosphorescent Probe for Tumor-Hypoxia Imaging.. <i>Advanced Healthcare Materials</i> , 2022 , e2200467	10.1	4
543	Controlling emitting dipole orientations by N ⁺ O-ancillary electronic effects of [Ir(C ^N) ₂ (N ⁺ O)]-heteroleptic Ir(III)-complexes towards efficient near-infrared (NIR) polymer light-emitting diodes (PLEDs). <i>Journal of Materials Chemistry C</i> , 2021 , 9, 16751-16761	7.1	0
542	Rationally designed Ta ₃ N ₅ @ReS ₂ heterojunctions for promoted photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27084-27094	13	5
541	Reversible On-Off Switching of Excitation-Wavelength-Dependent Emission of a Phosphorescent Soft Salt Based on Platinum(II) Complexes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18317-18324	16.4	12
540	Silver-Catalyzed Regioselective Phosphorylation of α -Quinone Methides with P(III)-Nucleophiles. <i>Journal of Organic Chemistry</i> , 2021 , 86, 14983-15003	4.2	2
539	Recent progress of electronic materials based on 2,1,3-benzothiadiazole and its derivatives: synthesis and their application in organic light-emitting diodes. <i>Science China Chemistry</i> , 2021 , 64, 341-357	7.9	11
538	Largely Color-Tuning Prompt and Delayed Fluorescence: Dinuclear Cu(I) Halide Complexes with α -Amines and Phosphines. <i>Inorganic Chemistry</i> , 2021 , 60, 4841-4851	5.1	7
537	All-Solution-Processed Multilayered White Polymer Light-Emitting Diodes (WPLEDs) Based on Cross-Linked [Ir(4-vb-PBI)(acac)]. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11096-11107	9.5	2
536	Tailored Electronic Band Gap and Valance Band Edge of Nickel Oxide via p-Type Incorporation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7495-7501	3.8	3
535	Cocatalyst-free Photocatalytic Hydrogen Evolution with Simple Heteroleptic Iridium(III) Complexes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 3945-3951	6.1	8

- 534 Metallated Graphynes as a New Class of Photofunctional 2D Organometallic Nanosheets. *Angewandte Chemie - International Edition*, **2021**, 60, 11326-11334 16.4 10
- 533 Phosphorescent Soft Salt Based on Platinum(II) Complexes: Photophysics, Self-Assembly, Thermochromism, and Anti-counterfeiting Application. *Inorganic Chemistry*, **2021**, 60, 7510-7518 5.1 9
- 532 Controlled Growth of One-dimensional 3C₂B₂C nanostructures with stable morphology. *Ceramics International*, **2021**, 47, 12762-12767 5.1
- 531 C₁-Symmetric [Ir(C[^]N1)(C[^]N2)(O[^]O)]-Tris-Heteroleptic Iridium(III)-Complexes with the Preferentially Horizontal Orientation for High-Performance Near-Infrared Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2021**, 9, 2100117 8.1 2
- 530 High energy density and extremely stable supercapacitors based on carbon aerogels with 100% capacitance retention up to 65,000 cycles. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, 118, 118 11.5 6
- 529 Correction to Cocatalyst-free Photocatalytic Hydrogen Evolution with Simple Heteroleptic Iridium(III) Complexes. *ACS Applied Energy Materials*, **2021**, 4, 6374-6374 6.1
- 528 First-Principles Optimization of Out-of-Plane Charge Transport in DionJacobson CsPbI₃ Perovskites with π -Conjugated Aromatic Spacers. *Advanced Functional Materials*, **2021**, 31, 2102330 15.6 12
- 527 N and S Co-doped carbon nanofibers with embedded candle soot and designed surface decoration for efficient bifunctional electrocatalysts. *Electrochimica Acta*, **2021**, 380, 138261 6.7 3
- 526 Supercapacitor electrodes based on metal-organic compounds from the first transition metal series. *EcoMat*, **2021**, 3, e12106 9.4 9
- 525 Linearly Tailored Work Function of Orthorhombic CsSnI₃ Perovskites. *ACS Energy Letters*, **2021**, 6, 2328-2335 6 6
- 524 Effect of the Linking Group on the Thermoelectric Properties of Poly(Schiff Base)s and Their Metallopolymers. *Chemistry - an Asian Journal*, **2021**, 16, 1911-1917 4.5
- 523 MOFs-Derived Fusiform In₂O₃ Mesoporous Nanorods Anchored with Ultrafine CdZnS Nanoparticles for Boosting Visible-Light Photocatalytic Hydrogen Evolution. *Small*, **2021**, 17, e2102307 11 21
- 522 Functional Materials Based on Cyclometalated Platinum(II) β -Diketonate Complexes: A Review of Structure-Property Relationships and Applications. *Materials*, **2021**, 14, 14, 14 3.5 2
- 521 Differences and Similarities of Photocatalysis and Electrocatalysis in Two-Dimensional Nanomaterials: Strategies, Traps, Applications and Challenges. *Nano-Micro Letters*, **2021**, 13, 156 19.5 20
- 520 Fluorescence Imaging and Photodynamic Inactivation of Bacteria Based on Cationic Cyclometalated Iridium(III) Complexes with Aggregation-Induced Emission Properties. *Advanced Healthcare Materials*, **2021**, e2100706 10.1 3
- 519 Nickel- and Palladium-Catalyzed Cross-Coupling Reactions of Organostibines with Organoboronic Acids. *Angewandte Chemie*, **2021**, 133, 3141-3151 3.6 0
- 518 One-Dimensional Mesoporous Anatase-TiO₂/Rutile-TiO₂/ZnTiO₃ Triphase Heterojunction with Boosted Photocatalytic Hydrogen Production Activity. *Catalysis Letters*, **2021**, 151, 359-369 2.8 6
- 517 Robust High-Temperature Supercapacitors Based on SiC Nanowires. *Advanced Functional Materials*, **2021**, 31, 2008901 15.6 8

516	High-performance near-infrared (NIR) polymer light-emitting diodes (PLEDs) based on bipolar Ir(III)-complex-grafted polymers. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 173-180	7.1	5
515	A color-tunable single molecule white light emitter with high luminescence efficiency and ultra-long room temperature phosphorescence. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 727-735	7.1	10
514	Ultralight and robust carbon nanofiber aerogels for advanced energy storage. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 900-907	13	5
513	Nickel- and Palladium-Catalyzed Cross-Coupling Reactions of Organostibines with Organoboronic Acids. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3104-3114	16.4	7
512	Recent Progress in the Selective Functionalization of P(O)-OH Bonds. <i>Topics in Current Chemistry</i> , 2021 , 379, 5	7.2	
511	A new near-infrared phosphorescent iridium(III) complex conjugated to a xanthene dye for mitochondria-targeted photodynamic therapy. <i>Biomaterials Science</i> , 2021 , 9, 4843-4853	7.4	6
510	Synthesis, characterization, and optoelectronic properties of phenothiazine-based organic co-poly-ynes. <i>New Journal of Chemistry</i> , 2021 , 45, 15082-15095	3.6	1
509	One-step solid-state pyrolysis of bio-wastes to synthesize multi-hierarchical porous carbon for ultra-long life supercapacitors. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2320-2327	7.8	7
508	Precursor engineering for high-quality Cs ₂ AgBiBr ₆ films toward efficient lead-free double perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 9659-9669	7.1	5
507	Water-passivated ZnMgO nanoparticles for blue quantum dot light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10381-10387	7.1	4
506	C ₁ -Symmetric [Ir(C ^N 1)(C ^N 2)(N ^O)]-tris-heteroleptic Ir(III)-complexes with a horizontal orientation for efficient near-infrared (NIR) polymer light-emitting diodes (PLEDs). <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8337-8344	7.1	3
505	Synergistic promotion of photoelectrochemical water splitting efficiency of TiO ₂ nanorod arrays by doping and surface modification. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12263-12272	7.1	2
504	A MoSe ₂ quantum dot modified hole extraction layer enables binary organic solar cells with improved efficiency and stability. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16500-16509	13	4
503	High-Performance Field Emitters Based on SiC Nanowires with Designed Electron Emission Sites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3062-3069	9.5	3
502	MOF-derived hexagonal In ₂ O ₃ microrods decorated with g-C ₃ N ₄ ultrathin nanosheets for efficient photocatalytic hydrogen production. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5343-5348	7.1	12
501	Aligned packaging of in situ grown CsPbBr ₃ nanorods within polystyrene nanofibers for enhanced polarized luminescence properties. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3806-3813	7.1	1
500	Highly ordered smectic structures of discoid luminescent liquid crystals: the role of the tolane group. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3555-3561	7.1	1
499	New phosphorescent iridium(III) dipyrinato complexes: synthesis, emission properties and their deep red to near-infrared OLEDs. <i>Dalton Transactions</i> , 2021 , 50, 10629-10639	4.3	3

498	Geometrically isomeric [Ir(iqbt)(ppy)(hpa)] complexes with differential molecule orientations for efficient near-infrared (NIR) polymer light-emitting diodes (PLEDs). <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12068-12072	7.1	0
497	A recent overview of porphyrin-based extended small molecules as donors and acceptors for high-performance organic solar cells. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 7119-7133	7.8	6
496	High-quality WS film as a hole transport layer in high-efficiency non-fullerene organic solar cells. <i>Nanoscale</i> , 2021 , 13, 16589-16597	7.7	2
495	Tailored growth of high-quality CsPbI ₃ nanobelts. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2358-2365	3.8	1
494	Mn ²⁺ -doped Cs ₂ NaInCl ₆ double perovskites and their photoluminescence properties. <i>Journal of Materials Science</i> , 2021 , 56, 8048-8059	4.3	5
493	Study of Electronic and Steric Effects of Different Substituents in Donor-Acceptor Molecules on Multilevel Organic Memory Data Storage Performance. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001097	6.4	2
492	Enhanced Capacitive Performance of Mesoporous Vanadium Nitride Nanobelts. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 070529	3.9	2
491	An Efficient Hole Transporting Polymer for Quantum Dot Light-Emitting Diodes. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100731	4.6	4
490	Robust high-temperature potassium-ion batteries enabled by carboxyl functional group energy storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
489	Improved piezoresistive properties of ZnO/SiC nanowire heterojunctions with an optimized piezoelectric nanolayer. <i>Journal of Materials Science</i> , 2021 , 56, 17146-17155	4.3	1
488	High-Performance Potassium-Ion Batteries with Robust Stability Based on N/S-Codoped Hollow Carbon Nanocubes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41619-41627	9.5	4
487	Near-Infrared-Excited Multicolor Afterglow in Carbon Dots-Based Room-Temperature Afterglow Materials. <i>Angewandte Chemie</i> , 2021 , 133, 22427-22433	3.6	3
486	Near-Infrared-Excited Multicolor Afterglow in Carbon Dots-Based Room-Temperature Afterglow Materials. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22253-22259	16.4	17
485	ZIF-derived two-dimensional Co@Carbon hybrid: Toward highly efficient trifunctional electrocatalysts. <i>Chemical Engineering Journal</i> , 2021 , 423, 130313	14.7	4
484	Recent advances in g-C ₃ N ₄ -based photocatalysts incorporated by MXenes and their derivatives. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13722-13745	13	17
483	Metal-Free, Acid/Phosphine-Induced Regioselective Thiolation of -Quinone Methides with Sodium Aryl/Alkyl Sulfinates. <i>Journal of Organic Chemistry</i> , 2021 , 86, 1516-1527	4.2	7
482	Coupling of a new porphyrin photosensitizer and cobaloxime cocatalyst for highly efficient photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20645-20652	13	5
481	Strategically Formulating Aggregation-Induced Emission-Active Phosphorescent Emitters by Restricting the Coordination Skeletal Deformation of Pt(II) Complexes Containing Two Independent Monodentate Ligands. <i>Advanced Optical Materials</i> , 2020 , 8, 2000079	8.1	15

480	Monochromatic red electroluminescence from a homodinuclear europium(III) complex of a β -diketone tethered by 2,2'-bipyrimidine. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9816-9827	7.1	13
479	A linear conjugated tetramer as a surface-modification layer to increase perovskite solar cell performance and stability. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11728-11733	13	13
478	Growing Poly(norepinephrine) Layer over Individual Nanoparticles To Boost Hybrid Perovskite Photocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27578-27586	9.5	10
477	Emerging Organic Thermoelectric Applications from Conducting Metallopolymers. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000115	2.6	9
476	Tin-Lead Alloying for Efficient and Stable All-Inorganic Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2020 , 32, 2782-2794	9.6	33
475	Metal-Free, N-Iodosuccinimide-Induced Regioselective Iodophosphorylation of Alkenes with P(O)-OH Bonds. <i>Chemistry - A European Journal</i> , 2020 , 26, 9556-9560	4.8	1
474	Epitaxial Growth of Nanorod Meshes from Luminescent Organic Cocrystals via Crystal Transformation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7265-7269	16.4	19
473	Nanoimprint Lithography-Directed Self-Assembly of Bimetallic Iron-M (M=Palladium, Platinum) Complexes for Magnetic Patterning. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11521-11526	16.4	17
472	Field emission behaviors of CsPbI ₃ nanobelts. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5156-5162	7.1	5
471	Efficient white polymer light-emitting diodes (WPLEDs) based on covalent-grafting of into PVK. <i>Chemical Science</i> , 2020 , 11, 2640-2646	9.4	4
470	Pyrophosphate Phosphor Solid Solution with High Quantum Efficiency and Thermal Stability for Efficient LED Lighting. <i>iScience</i> , 2020 , 23, 100892	6.1	11
469	Supramolecular core-shell heterostructures with controllable multi-color-emitting properties. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2669-2675	7.1	7
468	Quasi-aligned SiC@C nanowire arrays as free-standing electrodes for high-performance micro-supercapacitors. <i>Energy Storage Materials</i> , 2020 , 27, 261-269	19.4	20
467	Dual-Ion Batteries: A Tetrakis(terpyridine) Ligand-Based Cobalt(II) Complex Nanosheet as a Stable Dual-Ion Battery Cathode Material (Small 17/2020). <i>Small</i> , 2020 , 16, 2070092	11	1
466	In situ growth of aligned CsPbBr ₃ nanorods in polymer fibers with tailored aspect ratios. <i>Ceramics International</i> , 2020 , 46, 18352-18357	5.1	7
465	One-dimensional mesoporous inorganic nanostructures and their applications in energy, sensor, catalysis and adsorption. <i>Progress in Materials Science</i> , 2020 , 113, 100671	42.2	39
464	A Family of BODIPY-like Highly Fluorescent and Unsymmetrical Bis(BF) Pyrrolyl-Acylhydrazone Chromophores: BOAPY. <i>Organic Letters</i> , 2020 , 22, 4588-4592	6.2	12
463	High-efficiency organic electroluminescent materials based on the D ₂ AD type with sterically hindered methyl groups. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6851-6860	7.1	10

462	Bright and efficient red emitting electroluminescent devices fabricated from ternary europium complexes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5600-5612	7.1	13
461	Ferrocene-based hyperbranched polymers: a synthetic strategy for shape control and applications as electroactive materials and precursor-derived magnetic ceramics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10774-10780	7.1	16
460	Single-Crystal Integrated Photoanodes Based on 4-SiC Nanohole Arrays for Boosting Photoelectrochemical Water Splitting Activity. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20469-20478	8.5	5
459	A simple and efficient approach toward deep-red to near-infrared-emitting iridium(III) complexes for organic light-emitting diodes with external quantum efficiencies of over 10. <i>Chemical Science</i> , 2020 , 11, 2342-2349	9.4	49
458	Tetrafluorinated phenylpyridine based heteroleptic iridium(III) complexes for efficient sky blue phosphorescent organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2551-2557	7.1	9
457	Boosting field emission performance of TiO ₂ nanoarrays with designed architectures. <i>Applied Surface Science</i> , 2020 , 507, 145146	6.7	9
456	Efficient Polymer Solar Cells Based on New Random Copolymers with Porphyrin-Incorporated Side Chains. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 1900446	2.6	2
455	Advanced Supercapacitors Based on Porous Hollow Carbon Nanofiber Electrodes with High Specific Capacitance and Large Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4777-4786	9.5	49
454	Recent advances in soft functional materials: preparation, functions and applications. <i>Nanoscale</i> , 2020 , 12, 1281-1306	7.7	35
453	Iridium motif linked porphyrins for efficient light-driven hydrogen evolution via triplet state stabilization of porphyrin. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3005-3010	13	13
452	Electrostatic interaction assisted synthesis of a CdS/BCN heterostructure with enhanced photocatalytic effects. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1803-1810	7.1	10
451	Organic intercalation engineering of quasi-2D DionJacobson CsPbI ₃ perovskites. <i>Materials Horizons</i> , 2020 , 7, 1042-1050	14.4	33
450	In situ synthesis of coaxial CsPbX ₃ @polymer (X = Cl, Br, I) fibers with significantly enhanced water stability. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13972-13975	7.1	5
449	Giant Piezoresistance in B-Doped SiC Nanobelts with a Gauge Factor of -1800. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47848-47853	9.5	3
448	Donor-Acceptor Metallopolymers Containing Ferrocene for Brain Inspired Memristive Devices. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000841	6.4	1
447	CuInS ₂ nanoparticles embedded in mesoporous TiO ₂ nanofibers for boosted photocatalytic hydrogen production. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11001-11007	7.1	14
446	Enhancing the Stability of Orthorhombic CsSnI ₃ Perovskite Oriented Conjugated Ligand Passivation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34462-34469	9.5	11
445	A rationally designed bifunctional oxygen electrocatalyst based on Co ₂ P nanoparticles for Zn-air batteries. <i>Catalysis Science and Technology</i> , 2020 , 10, 5060-5068	5.5	1

444	All-inorganic dual-phase halide perovskite nanorings. <i>Nano Research</i> , 2020 , 13, 2994-3000	10	10
443	Influence of Alkyl Substitution Position on Wide-Bandgap Polymers in High-Efficiency Nonfullerene Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000170	4.8	1
442	Piezoelectric Materials for Controlling Electro-Chemical Processes. <i>Nano-Micro Letters</i> , 2020 , 12, 149	19.5	38
441	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000216	2.6	36
440	A novel perylene diimide-based zwitterion as the cathode interlayer for high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18117-18124	13	15
439	Phosphorescent Manganese(II) Complexes and Their Emerging Applications. <i>Advanced Optical Materials</i> , 2020 , 8, 2000985	8.1	31
438	Imidazolium Ionic Liquid as Organic Spacer for Tuning the Excitonic Structure of 2D Perovskite Materials. <i>ACS Energy Letters</i> , 2020 , 5, 3617-3627	20.1	8
437	Efficient Naphthalene Imide-Based Interface Engineering Materials for Enhancing Perovskite Photovoltaic Performance and Stability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42348-42356	9.5	6
436	Soft salts based on platinum(II) complexes with high emission quantum efficiencies in the near infrared region for imaging. <i>Chemical Communications</i> , 2020 , 56, 11681-11684	5.8	6
435	Engineering oxygen vacancies by one-step growth of distributed homojunctions to enhance charge separation for efficient photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2020 , 379, 122266	14.7	13
434	Enhanced Piezoresistive Behavior of SiC Nanowire by Coupling with Piezoelectric Effect. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21903-21911	9.5	12
433	A robust SiC nanoarray blue-light photodetector. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6072-6078	7.1	6
432	Single-Molecular White-Light Emitters and Their Potential WOLED Applications. <i>Advanced Materials</i> , 2020 , 32, e1903269	24	116
431	High-Performance Trifunctional Electrocatalysts Based on FeCo/Co ₂ P Hybrid Nanoparticles for Zinc-Air Battery and Self-Powered Overall Water Splitting. <i>Advanced Energy Materials</i> , 2020 , 10, 1903854	21.8	143
430	A Sublimable Dinuclear Cuprous Complex Showing Selective Luminescence Vapochromism in the Crystalline State. <i>Inorganic Chemistry</i> , 2019 , 58, 14478-14489	5.1	13
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428	A novel Na ₃ La(PO ₄) ₂ /LaPO ₄ :Eu blue-red dual-emitting phosphor with high thermal stability for plant growth lighting. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2385-2393	7.1	34
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424	Rational design of high efficiency green to deep red/near-infrared emitting materials based on isomeric donor-acceptor chromophores. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1880-1887	7.1	22
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13	A new family of phosphido-bridged dinuclear ruthenium carbonyl complexes: synthesis of $[\text{Ru}_2(\text{CO})_6\{\text{P}(\text{C}(\text{H})_3\text{O})_2\}(\eta^1, \eta^2\text{-C}(\text{H})_3\text{O})]$ and its reactivity towards terminal alkynes. <i>Dalton Transactions RSC</i> , 2001 , 2981		24

12	Novel blue luminescent platinum acetylide materials with a 9-acridone or a dansyl group [dansyl = 5-(dimethylamino)naphthalene-1-sulfonyl]. <i>Dalton Transactions RSC</i> , 2000 , 113-115		25
11	Synthesis, structures and properties of platinum(II) complexes of oligoacetylenic sulfides. <i>Dalton Transactions RSC</i> , 2000 , 3675-3680		22
10	Reactivity of chiral diiminodiphosphine ligands towards PdCl ₂ (PhCN) ₂ : synthesis and crystal structures of two unexpected dinuclear palladium(II) complexes. <i>Dalton Transactions RSC</i> , 2000 , 1397-1398		10
9	Ternary polymer solar cells with iridium-based polymer PM6Ir1 as a donor and N3:ITIC-Th as an acceptor exhibiting over 17.2% efficiency. <i>Sustainable Energy and Fuels</i> ,	5.8	4
8	New Electron Acceptor with End-Extended Conjugation for High-Performance Polymer Solar Cells. <i>Energy & Fuels</i> ,	4.1	2
7	Controlled Al-Doped Single-Crystalline Silicon Nitride Nanowires Synthesized via Pyrolysis of Polymer Precursors		3
6	Recent Progress of Iridium(III) Red Phosphors for Phosphorescent Organic Light-Emitting Diodes	195-214	
5	Modification of rubber compositions by carbon nanotubes. <i>Applied Nanoscience (Switzerland)</i> ,	3.3	0
4	Controllable Construction of Bifunctional CoxP@N,P-Doped Carbon Electrocatalysts for Rechargeable Zinc-Air Batteries. <i>Energy and Environmental Materials</i> ,	13	3
3	Vacuum-Sublimable Ionic Yellow Phosphorescent Iridium(III) Complexes with Broad Emission for White Electroluminescence. <i>Advanced Photonics Research</i> ,	2100115	1.9 3
2	Enhancing the Light Output-Coupling of Inverted Top-Emitting Organic Light-Emitting Diodes by Using the Localized Surface Plasmon Resonance of Ag Nanoparticles. <i>Advanced Materials Interfaces</i> ,	2200244	4.6 2
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