Mingjian Yuan

List of Publications by Year
in descending order

116 papers	22,745 citations	38742 50 h-index	20358 116 g-index
119 all docs	119 docs citations	119 times ranked	22017 citing authors

#	Article	IF	Citations
1	Recent Progress on Formamidiniumâ€Dominated Perovskite Photovoltaics. Advanced Energy Materials, 2022, 12, 2100690.	19.5	45
2	Suppressing photoinduced charge recombination at the BiVO4||NiOOH junction by sandwiching an oxygen vacancy layer for efficient photoelectrochemical water oxidation. Journal of Colloid and Interface Science, 2022, 608, 1116-1125.	9.4	19
3	Li-Doped Chemical Bath Deposited SnO₂ Enables Efficient Perovskite Photovoltaics. ACS Applied Energy Materials, 2022, 5, 5340-5347.	5.1	9
4	Constructing Cuâ^'C Bonds in a Graphdiyneâ€Regulated Cu Singleâ€Atom Electrocatalyst for CO₂ Reduction to CH₄. Angewandte Chemie - International Edition, 2022, 61, .	13.8	92
5	Constructing Cuâ^'C Bonds in a Graphdiyneâ€Regulated Cu Singleâ€Atom Electrocatalyst for CO₂ Reduction to CH₄. Angewandte Chemie, 2022, 134, .	2.0	8
6	Lanthanide doped lead-free double perovskites as the promising next generation ultra-broadband light sources. Light: Science and Applications, 2022, 11, 99.	16.6	19
7	Efficient and Stable FAâ€Rich Perovskite Photovoltaics: From Material Properties to Device Optimization. Advanced Energy Materials, 2022, 12, .	19.5	16
8	Tunable Photocatalytic Two-Electron Shuttle between Paired Redox Sites on Halide Perovskite Nanocrystals. ACS Catalysis, 2022, 12, 5903-5910.	11.2	13
9	Cu substitution boosts self-trapped exciton emission in zinc-based metal halides for sky-blue light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 9530-9537.	5.5	8
10	Metal Halide Perovskites for Redâ€Emission Lightâ€Emitting Diodes. Small Structures, 2022, 3, .	12.0	15
11	Slowing Down for Growth Mechanism and Speeding Up for Performance Optimization Based on Single Ligand Passivated CsPbBr₃ Nanoplatelets. Advanced Optical Materials, 2022, 10, .	7.3	7
12	Bandgap Funneling in Bismuthâ€Based Hybrid Perovskite Photocatalyst with Efficient Visibleâ€Lightâ€Driven Hydrogen Evolution. Small Methods, 2022, 6, .	8.6	12
13	The synthesis of high bright silver nanoclusters with aggregation-induced emission for detection of tetracycline. Sensors and Actuators B: Chemical, 2021, 326, 129009.	7.8	77
14	Scalable Assembly of Flexible Ultrathin Allâ€inâ€One Zincâ€Ion Batteries with Highly Stretchable, Editable, and Customizable Functions. Advanced Materials, 2021, 33, e2008140.	21.0	106
15	Multiexciton state of singlet fission in triisopropylsilylethynylâ€pentacene. Microwave and Optical Technology Letters, 2021, 63, 1399-1405.	1.4	1
16	Smoothing the energy transfer pathway in quasi-2D perovskite films using methanesulfonate leads to highly efficient light-emitting devices. Nature Communications, 2021, 12, 1246.	12.8	274
17	High-performance quasi-2D perovskite light-emitting diodes: from materials to devices. Light: Science and Applications, 2021, 10, 61.	16.6	235
18	Energy-Funneling Process in Quasi-2D Perovskite Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2021, 12, 2593-2606.	4.6	52

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19	Employ ionic liquid to stabilize black-phase formamidinium perovskites. Science China Chemistry, 2021, 64, 1263-1264.	8.2	1
20	High-performance large-area quasi-2D perovskite light-emitting diodes. Nature Communications, 2021, 12, 2207.	12.8	173
21	Graphdiyneâ€Stabilized Silver Nanoparticles as an Efficient Electrocatalyst for CO 2 Reduction. Advanced Energy and Sustainability Research, 2021, 2, 2100037.	5.8	7
22	23.5: Invited Paper: Quasiâ€2D perovskites for efficient lightâ€emitting diodes. Digest of Technical Papers SID International Symposium, 2021, 52, 305-305.	0.3	0
23	Halogen-halogen bonds enable improved long-term operational stability of mixed-halide perovskite photovoltaics. CheM, 2021, 7, 3131-3143.	11.7	55
24	CoS2 nanowires supported graphdiyne for highly efficient hydrogen evolution reaction. Journal of Energy Chemistry, 2021, 60, 272-278.	12.9	44
25	Methylammonium- and bromide-free perovskites enable efficient and stable photovoltaics. Journal of Energy Chemistry, 2021, 63, 12-24.	12.9	1
26	Recent advances of graphdiyne: synthesis, functionalization, and electrocatalytic applications. Materials Chemistry Frontiers, 2021, 5, 7964-7981.	5.9	9
27	Chemical reduction-induced surface oxygen vacancies of BiVO₄ photoanodes with enhanced photoelectrochemical performance. Sustainable Energy and Fuels, 2021, 5, 2284-2293.	4.9	21
28	Reducing the impact of Auger recombination in quasi-2D perovskite light-emitting diodes. Nature Communications, 2021, 12, 336.	12.8	237
29	Perovskite Quantum Wells Formation Mechanism for Stable Efficient Perovskite Photovoltaicsâ€"A Realâ€Time Phaseâ€Transition Study. Advanced Materials, 2021, 33, e2006238.	21.0	30
30	Degradation mechanisms of perovskite solar cells under vacuum and one atmosphere of nitrogen. Nature Energy, 2021, 6, 977-986.	39.5	103
31	Hard and soft Lewis-base behavior for efficient and stable CsPbBr₃ perovskite light-emitting diodes. Nanophotonics, 2021, 10, 2157-2166.	6.0	16
32	Recent progress on post-synthetic treatments of photoelectrodes for photoelectrochemical water splitting. Journal of Materials Chemistry A, 2021, 9, 26628-26649.	10.3	14
33	Stabilization of Cu/Ni Alloy Nanoparticles with Graphdiyne Enabling Efficient CO2 Reduction. Chemical Research in Chinese Universities, 2021, 37, 1328-1333.	2.6	11
34	Frontiers in circularly polarized luminescence: molecular design, self-assembly, nanomaterials, and applications. Science China Chemistry, 2021, 64, 2060-2104.	8.2	248
35	Pore size effect of graphyne supports on CO₂ electrocatalytic activity of Cu single atoms. Physical Chemistry Chemical Physics, 2020, 22, 1181-1186.	2.8	37
36	CH3NH3PbI3:MoS2 heterostructure for stable and efficient inverted perovskite solar cell. Solar Energy, 2020, 195, 436-445.	6.1	42

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37	Multifunctional Naphthol Sulfonic Salt Incorporated in Lead-Free 2D Tin Halide Perovskite for Red Light-Emitting Diodes. ACS Photonics, 2020, 7, 1915-1922.	6.6	52
38	Structured Perovskite Light Absorbers for Efficient and Stable Photovoltaics. Advanced Materials, 2020, 32, e1903937.	21.0	69
39	Tuning Surface Wettability of Buffer Layers by Incorporating Polyethylene Glycols for Enhanced Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 26670-26679.	8.0	20
40	Core/Shell Perovskite Nanocrystals: Synthesis of Highly Efficient and Environmentally Stable FAPbBr₃/CsPbBr₃ for LED Applications. Advanced Functional Materials, 2020, 30, 1910582.	14.9	135
41	Direct Observation of Competition between Amplified Spontaneous Emission and Auger Recombination in Quasi-Two-Dimensional Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 5734-5740.	4.6	28
42	A Chiral Reducedâ€Dimension Perovskite for an Efficient Flexible Circularly Polarized Light Photodetector. Angewandte Chemie, 2020, 132, 6504-6512.	2.0	54
43	High Color Purity Leadâ€Free Perovskite Lightâ€Emitting Diodes via Sn Stabilization. Advanced Science, 2020, 7, 1903213.	11.2	146
44	A Chiral Reducedâ€Dimension Perovskite for an Efficient Flexible Circularly Polarized Light Photodetector. Angewandte Chemie - International Edition, 2020, 59, 6442-6450.	13.8	178
45	Lithium bis(oxalate)borate additive in the electrolyte to improve Li-rich layered oxide cathode materials. Materials Chemistry Frontiers, 2020, 4, 1689-1696.	5.9	33
46	Stabilization of cobalt clusters with graphdiyne enabling efficient overall water splitting. Nano Energy, 2020, 74, 104852.	16.0	43
47	Low-dimensionality perovskites yield high electroluminescence. Science Bulletin, 2020, 65, 1057-1060.	9.0	15
48	Reduced-dimensional perovskite photovoltaics with homogeneous energy landscape. Nature Communications, 2020, 11, 1672.	12.8	191
49	Metal halide perovskites for blue light emitting materials. APL Materials, 2020, 8, .	5.1	15
50	An efficient and stable inverted perovskite solar cell involving inorganic charge transport layers without a high temperature procedure. RSC Advances, 2020, 10, 18608-18613.	3.6	13
51	Graphdiyne-Supported NiFe Layered Double Hydroxide Nanosheets as Functional Electrocatalysts for Oxygen Evolution. ACS Applied Materials & Interfaces, 2019, 11, 2662-2669.	8.0	104
52	Aâ€site Cation Engineering for Highly Efficient MAPbI₃ Singleâ€Crystal Xâ€ray Detector. Angewandte Chemie - International Edition, 2019, 58, 17834-17842.	13.8	174
53	A Review on Improving the Quality of Perovskite Films in Perovskite Solar Cells via the Weak Forces Induced by Additives. Applied Sciences (Switzerland), 2019, 9, 4393.	2.5	24
54	Aâ€site Cation Engineering for Highly Efficient MAPbI₃ Singleâ€Crystal Xâ€ray Detector. Angewandte Chemie, 2019, 131, 17998-18006.	2.0	15

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55	Orientation Regulation of Tinâ€Based Reducedâ€Dimensional Perovskites for Highly Efficient and Stable Photovoltaics. Advanced Functional Materials, 2019, 29, 1807696.	14.9	136
56	Spectra stable blue perovskite light-emitting diodes. Nature Communications, 2019, 10, 1868.	12.8	344
57	In situ construction of graphdiyne/CuS heterostructures for efficient hydrogen evolution reaction. Materials Chemistry Frontiers, 2019, 3, 821-828.	5.9	47
58	Two-dimensional perovskite capping layer for stable and efficient tin-lead perovskite solar cells. Science China Chemistry, 2019, 62, 629-636.	8.2	43
59	Development of sensing method for mercury ions and cell imaging based on highly fluorescent gold nanoclusters. Microchemical Journal, 2019, 146, 1140-1149.	4.5	14
60	All-Inorganic Perovskite Solar Cells Based on CsPbIBr2 and Metal Oxide Transport Layers with Improved Stability. Nanomaterials, 2019, 9, 1666.	4.1	30
61	Conjugated Alkylamine by Twoâ€Step Surface Ligand Engineering in CsPbBr 3 Perovskite Nanocrystals for Efficient Lightâ€Emitting Diodes. ChemNanoMat, 2019, 5, 318-322.	2.8	14
62	Facile, rapid one-pot synthesis of multifunctional gold nanoclusters for cell imaging, hydrogen sulfide detection and pH sensing. Talanta, 2019, 197, 1-11.	5.5	33
63	Fast Postmoisture Treatment of Luminescent Perovskite Films for Efficient Lightâ€Emitting Diodes. Small, 2018, 14, e1703410.	10.0	35
64	Improvement in the performance of inverted planar perovskite solar cells via the CH3NH3PbI3-xClx:ZnO bulk heterojunction. Journal of Power Sources, 2018, 401, 303-311.	7.8	19
65	Reduced-Dimensional Î±-CsPbX3 Perovskites for Efficient and Stable Photovoltaics. Joule, 2018, 2, 1356-1368.	24.0	344
66	Electronâ€"phonon interaction in efficient perovskite blue emitters. Nature Materials, 2018, 17, 550-556.	27.5	472
67	Efficient and stable solution-processed planar perovskite solar cells via contact passivation. Science, 2017, 355, 722-726.	12.6	2,019
68	Tailoring the Energy Landscape in Quasi-2D Halide Perovskites Enables Efficient Green-Light Emission. Nano Letters, 2017, 17, 3701-3709.	9.1	409
69	Solution processed double-decked V2Ox/PEDOT:PSS film serves as the hole transport layer of an inverted planar perovskite solar cell with high performance. RSC Advances, 2017, 7, 26202-26210.	3.6	23
70	Hybrid tandem quantum dot/organic photovoltaic cells with complementary near infrared absorption. Applied Physics Letters, 2017, 110, 223903.	3.3	23
71	Efficient and stable perovskite solar cells based on high-quality CH₃NH₃PbI_{3â^'x}Cl_x films modified by V₂O_x additives. Journal of Materials Chemistry A, 2017, 5, 24282-24291.	10.3	27
72	Graphdiyne: An Efficient Hole Transporter for Stable Highâ€Performance Colloidal Quantum Dot Solar Cells. Advanced Functional Materials, 2016, 26, 5284-5289.	14.9	172

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73	The Inâ€Gap Electronic State Spectrum of Methylammonium Lead Iodide Singleâ€Crystal Perovskites. Advanced Materials, 2016, 28, 3406-3410.	21.0	187
74	Highly Efficient Perovskiteâ€Quantumâ€Dot Lightâ€Emitting Diodes by Surface Engineering. Advanced Materials, 2016, 28, 8718-8725.	21.0	917
75	Colloidal quantum dot solids for solution-processed solar cells. Nature Energy, 2016, 1, .	39.5	255
76	Amineâ€Free Synthesis of Cesium Lead Halide Perovskite Quantum Dots for Efficient Lightâ€Emitting Diodes. Advanced Functional Materials, 2016, 26, 8757-8763.	14.9	344
77	Increasing Polymer Solar Cell Fill Factor by Trapâ€Filling with F4â€TCNQ at Parts Per Thousand Concentration. Advanced Materials, 2016, 28, 6491-6496.	21.0	85
78	Perovskite energy funnels for efficient light-emitting diodes. Nature Nanotechnology, 2016, 11, 872-877.	31.5	1,868
79	Passivation Using Molecular Halides Increases Quantum Dot Solar Cell Performance. Advanced Materials, 2016, 28, 299-304.	21.0	312
80	Homogeneously dispersed multimetal oxygen-evolving catalysts. Science, 2016, 352, 333-337.	12.6	1,948
81	Ligand-Stabilized Reduced-Dimensionality Perovskites. Journal of the American Chemical Society, 2016, 138, 2649-2655.	13.7	1,157
82	Planar-integrated single-crystalline perovskite photodetectors. Nature Communications, 2015, 6, 8724.	12.8	617
83	Low trap-state density and long carrier diffusion in organolead trihalide perovskite single crystals. Science, 2015, 347, 519-522.	12.6	4,156
84	Single-step fabrication of quantum funnels via centrifugal colloidal casting of nanoparticle films. Nature Communications, 2015, 6, 7772.	12.8	68
85	Perovskiteâ€“fullerene hybrid materials suppress hysteresis in planar diodes. Nature Communications, 2015, 6, 7081.	12.8	948
86	Cleavable Ligands Enable Uniform Close Packing in Colloidal Quantum Dot Solids. ACS Applied Materials & Interfaces, 2015, 7, 21995-22000.	8.0	9
87	All-Quantum-Dot Infrared Light-Emitting Diodes. ACS Nano, 2015, 9, 12327-12333.	14.6	61
88	Synergistic Doping of Fullerene Electron Transport Layer and Colloidal Quantum Dot Solids Enhances Solar Cell Performance. Advanced Materials, 2015, 27, 917-921.	21.0	75
89	Highâ€Performance Quantumâ€Dot Solids via Elemental Sulfur Synthesis. Advanced Materials, 2014, 26, 3513-3519.	21.0	39
90	Influence of fluorine substituents on the film dielectric constant and open-circuit voltage in organic photovoltaics. Journal of Materials Chemistry C, 2014, 2, 3278-3284.	5.5	64

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91	Doping Control Via Molecularly Engineered Surface Ligand Coordination. Advanced Materials, 2013, 25, 5586-5592.	21.0	62
92	The impact of molecular weight on microstructure and charge transport in semicrystalline polymer semiconductorsâ€"poly(3-hexylthiophene), a model study. Progress in Polymer Science, 2013, 38, 1978-1989.	24.7	274
93	Jointly Tuned Plasmonicâ€"Excitonic Photovoltaics Using Nanoshells. Nano Letters, 2013, 13, 1502-1508.	9.1	93
94	TiO2 nanowire electron transport pathways inside organic photovoltaics. Physical Chemistry Chemical Physics, 2013, 15, 4566.	2.8	19
95	Synthesis and characterization of fused-thiophene containing naphthalene diimide n -type copolymers for organic thin film transistor and all-polymer solar cell applications. Journal of Polymer Science Part A, 2013, 51, 4061-4069.	2.3	45
96	Low Bandgap Polymers Based on Silafluorene Containing Multifused Heptacylic Arenes for Photovoltaic Applications. Macromolecules, 2012, 45, 5934-5940.	4.8	37
97	Constructing Regioregular Star Poly(3-hexylthiophene) via Externally Initiated Kumada Catalyst-Transfer Polycondensation. ACS Macro Letters, 2012, 1, 392-395.	4.8	65
98	Oligoselenophene Derivatives Functionalized with a Diketopyrrolopyrrole Core for Molecular Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2011, 3, 271-278.	8.0	58
99	Benzo[2,1â€b;3,4â€bâ€²]dithiopheneâ€based lowâ€bandgap polymers for photovoltaic applications. Journal of Polymer Science Part A, 2011, 49, 701-711.	2.3	38
100	Controllable Growth of 0D to Multidimensional Nanostructures of a Novel Porphyrin Molecule. Advanced Materials, 2009, 21, 1721-1725.	21.0	72
101	Chemical sensors based on Ï€-conjugated organic molecules and gold nanoparticles. Science in China Series B: Chemistry, 2009, 52, 715-730.	0.8	15
102	Optic and proton dual-control of the fluorescence of Rhodamine based on photochromic diarylethene: mimicking the performance of an integrated logic gate. Tetrahedron Letters, 2009, 50, 1588-1592.	1.4	47
103	Efficient tuning nonlinear optical properties: Synthesis and characterization of a series of novel poly(aryleneethynylene)s coâ€containing BODIPY. Journal of Polymer Science Part A, 2008, 46, 7401-7410.	2.3	71
104	Visible Near-Infrared Chemosensor for Mercury Ion. Organic Letters, 2008, 10, 1481-1484.	4.6	373
105	A Multianalyte Chemosensor on a Single Molecule: Promising Structure for an Integrated Logic Gate. Journal of Organic Chemistry, 2008, 73, 5008-5014.	3.2	210
106	Large Third-Order Optical Nonlinear Effects of Gold Nanoparticles with Unusual Fluorescence Enhancement. Langmuir, 2008, 24, 8297-8302.	3.5	25
107	Organicâˆ'Inorganic Nanohybrids via Directly Grafting Gold Nanoparticles onto Conjugated Copolymers through the Dielsâˆ'Alder Reaction. Langmuir, 2008, 24, 11967-11974.	3.5	37
108	A Colorimetric and Fluorometric Dual-Modal Assay for Mercury Ion by a Molecule. Organic Letters, 2007, 9, 2313-2316.	4.6	258

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109	Self-Assembly of Conjugated Polymers and ds-Oligonucleotides Directed Fractal-like Aggregates. Biomacromolecules, 2007, 8, 1723-1729.	5.4	34
110	Controlled growth and field emission properties of CuS nanowalls. Nanotechnology, 2007, 18, 145706.	2.6	65
111	Spontaneously Aggregated Chiral Nanostructures from Achiral Tripodâˆ’Terpyridine. Journal of Physical Chemistry B, 2007, 111, 8063-8068.	2.6	14
112	Unusual Fluorescence Enhancement of a Novel Carbazolyldiacetylene Bound to Gold Nanoparticles. Langmuir, 2007, 23, 6754-6760.	3.5	40
113	Controlled Aggregation of Functionalized Gold Nanoparticles with a Novel Conjugated Oligomer. ChemPhysChem, 2007, 8, 906-912.	2.1	20
114	Brightly full-color emissions of oligo(p-phenylenevinylene)s: substituent effects on photophysical properties. Tetrahedron, 2007, 63, 3168-3172.	1.9	19
115	Construction of diads and triads copolymer systems containing perylene, porphyrin, and/or fullerene blocks. Journal of Polymer Science Part A, 2006, 44, 5863-5874.	2.3	22
116	Synthesis, Characterization, and Self-Assembly of Nitrogen-Containing Heterocoronenetetracarboxylic Acid Diimide Analogues: Photocyclization of N-Heterocycle-Substituted Perylene Bisimides. Chemistry - A European Journal, 2006, 12, 8378-8385.	3.3	49