

# Mingjian Yuan

## List of Publications by Citations

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111  
papers

16,824  
citations

46  
h-index

119  
g-index

119  
ext. papers

19,665  
ext. citations

12.4  
avg, IF

6.54  
L-index

#	Paper	IF	Citations
111	Solar cells. Low trap-state density and long carrier diffusion in organolead trihalide perovskite single crystals. <i>Science</i> , <b>2015</b> , 347, 519-22	33.3	3307
110	Efficient and stable solution-processed planar perovskite solar cells via contact passivation. <i>Science</i> , <b>2017</b> , 355, 722-726	33.3	1667
109	Perovskite energy funnels for efficient light-emitting diodes. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 872-877	28.7	1484
108	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , <b>2016</b> , 352, 333-7	33.3	1459
107	Ligand-Stabilized Reduced-Dimensionality Perovskites. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 2649-55	16.4	889
106	Perovskite-fullerene hybrid materials suppress hysteresis in planar diodes. <i>Nature Communications</i> , <b>2015</b> , 6, 7081	17.4	815
105	Highly Efficient Perovskite-Quantum-Dot Light-Emitting Diodes by Surface Engineering. <i>Advanced Materials</i> , <b>2016</b> , 28, 8718-8725	24	700
104	Planar-integrated single-crystalline perovskite photodetectors. <i>Nature Communications</i> , <b>2015</b> , 6, 8724	17.4	497
103	Visible near-infrared chemosensor for mercury ion. <i>Organic Letters</i> , <b>2008</b> , 10, 1481-4	6.2	348
102	Electron-phonon interaction in efficient perovskite blue emitters. <i>Nature Materials</i> , <b>2018</b> , 17, 550-556	27	310
101	Tailoring the Energy Landscape in Quasi-2D Halide Perovskites Enables Efficient Green-Light Emission. <i>Nano Letters</i> , <b>2017</b> , 17, 3701-3709	11.5	309
100	Passivation Using Molecular Halides Increases Quantum Dot Solar Cell Performance. <i>Advanced Materials</i> , <b>2016</b> , 28, 299-304	24	279
99	Amine-Free Synthesis of Cesium Lead Halide Perovskite Quantum Dots for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8757-8763	15.6	265
98	Reduced-Dimensional $\text{CsPbX}_3$ Perovskites for Efficient and Stable Photovoltaics. <i>Joule</i> , <b>2018</b> , 2, 1356-1368	16.8	255
97	A colorimetric and fluorometric dual-model assay for mercury ion by a molecule. <i>Organic Letters</i> , <b>2007</b> , 9, 2313-6	6.2	249
96	The impact of molecular weight on microstructure and charge transport in semicrystalline polymer semiconductors Poly(3-hexylthiophene), a model study. <i>Progress in Polymer Science</i> , <b>2013</b> , 38, 1978-1989	29.6	219
95	Spectra stable blue perovskite light-emitting diodes. <i>Nature Communications</i> , <b>2019</b> , 10, 1868	17.4	218

94	Colloidal quantum dot solids for solution-processed solar cells. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	210
93	A multianalyte chemosensor on a single molecule: promising structure for an integrated logic gate. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 5008-14	4.2	195
92	The In-Gap Electronic State Spectrum of Methylammonium Lead Iodide Single-Crystal Perovskites. <i>Advanced Materials</i> , <b>2016</b> , 28, 3406-10	24	151
91	Graphdiyne: An Efficient Hole Transporter for Stable High-Performance Colloidal Quantum Dot Solar Cells. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5284-5289	15.6	140
90	Smoothing the energy transfer pathway in quasi-2D perovskite films using methanesulfonate leads to highly efficient light-emitting devices. <i>Nature Communications</i> , <b>2021</b> , 12, 1246	17.4	113
89	Reduced-dimensional perovskite photovoltaics with homogeneous energy landscape. <i>Nature Communications</i> , <b>2020</b> , 11, 1672	17.4	102
88	Reducing the impact of Auger recombination in quasi-2D perovskite light-emitting diodes. <i>Nature Communications</i> , <b>2021</b> , 12, 336	17.4	100
87	A-site Cation Engineering for Highly Efficient MAPbI Single-Crystal X-ray Detector. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17834-17842	16.4	97
86	Jointly tuned plasmonic-excitonic photovoltaics using nanoshells. <i>Nano Letters</i> , <b>2013</b> , 13, 1502-8	11.5	89
85	Orientation Regulation of Tin-Based Reduced-Dimensional Perovskites for Highly Efficient and Stable Photovoltaics. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807696	15.6	85
84	High Color Purity Lead-Free Perovskite Light-Emitting Diodes via Sn Stabilization. <i>Advanced Science</i> , <b>2020</b> , 7, 1903213	13.6	85
83	A Chiral Reduced-Dimension Perovskite for an Efficient Flexible Circularly Polarized Light Photodetector. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6442-6450	16.4	85
82	Graphdiyne-Supported NiFe Layered Double Hydroxide Nanosheets as Functional Electrocatalysts for Oxygen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2662-2669	9.5	79
81	Core/Shell Perovskite Nanocrystals: Synthesis of Highly Efficient and Environmentally Stable FAPbBr <sub>3</sub> /CsPbBr <sub>3</sub> for LED Applications. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910582	15.6	75
80	High-performance quasi-2D perovskite light-emitting diodes: from materials to devices. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 61	16.7	67
79	Increasing Polymer Solar Cell Fill Factor by Trap-Filling with F4-TCNQ at Parts Per Thousand Concentration. <i>Advanced Materials</i> , <b>2016</b> , 28, 6491-6	24	66
78	Controllable Growth of 0D to Multidimensional Nanostructures of a Novel Porphyrin Molecule. <i>Advanced Materials</i> , <b>2009</b> , 21, 1721-1725	24	66
77	Synergistic doping of fullerene electron transport layer and colloidal quantum dot solids enhances solar cell performance. <i>Advanced Materials</i> , <b>2015</b> , 27, 917-21	24	65

76	Efficient tuning nonlinear optical properties: Synthesis and characterization of a series of novel poly(aryleneethynylene)s co-containing BODIPY. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 7401-7410	2.5	64
75	Controlled growth and field emission properties of CuS nanowalls. <i>Nanotechnology</i> , <b>2007</b> , 18, 145706	3.4	61
74	Constructing Regioregular Star Poly(3-hexylthiophene) via Externally Initiated Kumada Catalyst-Transfer Polycondensation.. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 392-395	6.6	60
73	Influence of fluorine substituents on the film dielectric constant and open-circuit voltage in organic photovoltaics. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 3278-3284	7.1	58
72	Oligoselenophene derivatives functionalized with a diketopyrrolopyrrole core for molecular bulk heterojunction solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 271-8	9.5	58
71	High-performance large-area quasi-2D perovskite light-emitting diodes. <i>Nature Communications</i> , <b>2021</b> , 12, 2207	17.4	58
70	Single-step fabrication of quantum funnels via centrifugal colloidal casting of nanoparticle films. <i>Nature Communications</i> , <b>2015</b> , 6, 7772	17.4	57
69	Doping control via molecularly engineered surface ligand coordination. <i>Advanced Materials</i> , <b>2013</b> , 25, 5586-92	24	55
68	Synthesis, characterization, and self-assembly of nitrogen-containing heterocoronenetetracarboxylic acid diimide analogues: photocyclization of N-heterocycle-substituted perylene bisimides. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 8378-85	4.8	49
67	All-Quantum-Dot Infrared Light-Emitting Diodes. <i>ACS Nano</i> , <b>2015</b> , 9, 12327-33	16.7	48
66	Frontiers in circularly polarized luminescence: molecular design, self-assembly, nanomaterials, and applications. <i>Science China Chemistry</i> , <b>2021</b> , 64, 2060	7.9	46
65	Structured Perovskite Light Absorbers for Efficient and Stable Photovoltaics. <i>Advanced Materials</i> , <b>2020</b> , 32, e1903937	24	44
64	Synthesis and characterization of fused-thiophene containing naphthalene diimide n-type copolymers for organic thin film transistor and all-polymer solar cell applications. <i>Journal of Polymer Science Part A</i> , <b>2013</b> , 51, 4061-4069	2.5	42
63	Optic and proton dual-control of the fluorescence of Rhodamine based on photochromic diarylethene: mimicking the performance of an integrated logic gate. <i>Tetrahedron Letters</i> , <b>2009</b> , 50, 1588-1592 <sup>41</sup>	2.5	41
62	Scalable Assembly of Flexible Ultrathin All-in-One Zinc-Ion Batteries with Highly Stretchable, Editable, and Customizable Functions. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008140	24	41
61	Unusual fluorescence enhancement of a novel carbazolyldiacetylene bound to gold nanoparticles. <i>Langmuir</i> , <b>2007</b> , 23, 6754-60	4	39
60	Benzo[2,1-b;3,4-b']dithiophene-based low-bandgap polymers for photovoltaic applications. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 701-711	2.5	38
59	High-performance quantum-dot solids via elemental sulfur synthesis. <i>Advanced Materials</i> , <b>2014</b> , 26, 3513-9	3.2	35

58	Organic-inorganic nanohybrids via directly grafting gold nanoparticles onto conjugated copolymers through the Diels-Alder reaction. <i>Langmuir</i> , <b>2008</b> , 24, 11967-74	4	34
57	Low Bandgap Polymers Based on Silafluorene Containing Multifused Heptacyclic Arenes for Photovoltaic Applications. <i>Macromolecules</i> , <b>2012</b> , 45, 5934-5940	5.5	33
56	Self-assembly of conjugated polymers and ds-oligonucleotides directed fractal-like aggregates. <i>Biomacromolecules</i> , <b>2007</b> , 8, 1723-9	6.9	31
55	A Chiral Reduced-Dimension Perovskite for an Efficient Flexible Circularly Polarized Light Photodetector. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6504-6512	3.6	29
54	Fast Postmoisture Treatment of Luminescent Perovskite Films for Efficient Light-Emitting Diodes. <i>Small</i> , <b>2018</b> , 14, e1703410	11	28
53	Two-dimensional perovskite capping layer for stable and efficient tin-lead perovskite solar cells. <i>Science China Chemistry</i> , <b>2019</b> , 62, 629-636	7.9	27
52	Pore size effect of graphyne supports on CO electrocatalytic activity of Cu single atoms. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 1181-1186	3.6	27
51	Multifunctional Naphthol Sulfonic Salt Incorporated in Lead-Free 2D Tin Halide Perovskite for Red Light-Emitting Diodes. <i>ACS Photonics</i> , <b>2020</b> , 7, 1915-1922	6.3	27
50	Large third-order optical nonlinear effects of gold nanoparticles with unusual fluorescence enhancement. <i>Langmuir</i> , <b>2008</b> , 24, 8297-302	4	25
49	In situ construction of graphdiyne/CuS heterostructures for efficient hydrogen evolution reaction. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 821-828	7.8	24
48	The synthesis of high bright silver nanoclusters with aggregation-induced emission for detection of tetracycline. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 326, 129009	8.5	24
47	CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> :MoS <sub>2</sub> heterostructure for stable and efficient inverted perovskite solar cell. <i>Solar Energy</i> , <b>2020</b> , 195, 436-445	6.8	23
46	All-Inorganic Perovskite Solar Cells Based on CsPbI <sub>3</sub> Br and Metal Oxide Transport Layers with Improved Stability. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	22
45	Efficient and stable perovskite solar cells based on high-quality CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Cl <sub>x</sub> films modified by V <sub>2</sub> O <sub>5</sub> additives. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24282-24291	13	21
44	Stabilization of cobalt clusters with graphdiyne enabling efficient overall water splitting. <i>Nano Energy</i> , <b>2020</b> , 74, 104852	17.1	21
43	Construction of diads and triads copolymer systems containing perylene, porphyrin, and/or fullerene blocks. <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 5863-5874	2.5	21
42	Facile, rapid one-pot synthesis of multifunctional gold nanoclusters for cell imaging, hydrogen sulfide detection and pH sensing. <i>Talanta</i> , <b>2019</b> , 197, 1-11	6.2	21
41	Solution processed double-decked V <sub>2</sub> O <sub>5</sub> /PEDOT:PSS film serves as the hole transport layer of an inverted planar perovskite solar cell with high performance. <i>RSC Advances</i> , <b>2017</b> , 7, 26202-26210	3.7	20

40	Controlled aggregation of functionalized gold nanoparticles with a novel conjugated oligomer. <i>ChemPhysChem</i> , <b>2007</b> , 8, 906-12	3.2	18
39	Hybrid tandem quantum dot/organic photovoltaic cells with complementary near infrared absorption. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 223903	3.4	17
38	Direct Observation of Competition between Amplified Spontaneous Emission and Auger Recombination in Quasi-Two-Dimensional Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 5734-5740	6.4	17
37	Brightly full-color emissions of oligo(p-phenylenevinylene)s: substituent effects on photophysical properties. <i>Tetrahedron</i> , <b>2007</b> , 63, 3168-3172	2.4	17
36	Degradation mechanisms of perovskite solar cells under vacuum and one atmosphere of nitrogen. <i>Nature Energy</i> , <b>2021</b> , 6, 977-986	62.3	17
35	Energy-Funneling Process in Quasi-2D Perovskite Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 2593-2606	6.4	17
34	TiO <sub>2</sub> nanowire electron transport pathways inside organic photovoltaics. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 4566-72	3.6	14
33	Chemical sensors based on $\pi$ -conjugated organic molecules and gold nanoparticles. <i>Science in China Series B: Chemistry</i> , <b>2009</b> , 52, 715-730		14
32	Spontaneously aggregated chiral nanostructures from achiral tripod-terpyridine. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 8063-8	3.4	13
31	Development of sensing method for mercury ions and cell imaging based on highly fluorescent gold nanoclusters. <i>Microchemical Journal</i> , <b>2019</b> , 146, 1140-1149	4.8	12
30	A Review on Improving the Quality of Perovskite Films in Perovskite Solar Cells via the Weak Forces Induced by Additives. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4393	2.6	12
29	Recent Progress on Formamidinium-Dominated Perovskite Photovoltaics. <i>Advanced Energy Materials</i> , 2100690	21.8	12
28	Improvement in the performance of inverted planar perovskite solar cells via the CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> -xCl <sub>x</sub> :ZnO bulk heterojunction. <i>Journal of Power Sources</i> , <b>2018</b> , 401, 303-311	8.9	12
27	Perovskite Quantum Wells Formation Mechanism for Stable Efficient Perovskite Photovoltaics-A Real-Time Phase-Transition Study. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006238	24	11
26	Tuning Surface Wettability of Buffer Layers by Incorporating Polyethylene Glycols for Enhanced Performance of Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26670-26679	9.5	10
25	Lithium bis(oxalate)borate additive in the electrolyte to improve Li-rich layered oxide cathode materials. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 1689-1696	7.8	10
24	A-site Cation Engineering for Highly Efficient MAPbI <sub>3</sub> Single-Crystal X-ray Detector. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17998-18006	3.6	10
23	Conjugated Alkylamine by Two-Step Surface Ligand Engineering in CsPbBr <sub>3</sub> Perovskite Nanocrystals for Efficient Light-Emitting Diodes. <i>ChemNanoMat</i> , <b>2019</b> , 5, 318-322	3.5	10

22	Halogen-halogen bonds enable improved long-term operational stability of mixed-halide perovskite photovoltaics. <i>CheM</i> , <b>2021</b> ,	16.2	10
21	CoS <sub>2</sub> nanowires supported graphdiyne for highly efficient hydrogen evolution reaction. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 272-278	12	10
20	Cleavable Ligands Enable Uniform Close Packing in Colloidal Quantum Dot Solids. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 21995-2000	9.5	8
19	Low-dimensionality perovskites yield high electroluminescence. <i>Science Bulletin</i> , <b>2020</b> , 65, 1057-1060	10.6	8
18	An efficient and stable inverted perovskite solar cell involving inorganic charge transport layers without a high temperature procedure.. <i>RSC Advances</i> , <b>2020</b> , 10, 18608-18613	3.7	7
17	Metal halide perovskites for blue light emitting materials. <i>APL Materials</i> , <b>2020</b> , 8, 040907	5.7	7
16	Constructing Cu-C Bond in Graphdiyne-Regulated Cu Single Atom Electrocatalyst for CO <sub>2</sub> Reduction to CH <sub>4</sub> .. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	7
15	Chemical reduction-induced surface oxygen vacancies of BiVO <sub>4</sub> photoanodes with enhanced photoelectrochemical performance. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 2284-2293	5.8	5
14	Stabilization of Cu/Ni Alloy Nanoparticles with Graphdiyne Enabling Efficient CO <sub>2</sub> Reduction. <i>Chemical Research in Chinese Universities</i> , <b>2021</b> , 37, 1328-1333	2.2	4
13	Hard and soft Lewis-base behavior for efficient and stable CsPbBr <sub>3</sub> perovskite light-emitting diodes. <i>Nanophotonics</i> , <b>2021</b> , 10, 2157-2166	6.3	4
12	Suppressing photoinduced charge recombination at the BiVO <sub>4</sub> /NiOOH junction by sandwiching an oxygen vacancy layer for efficient photoelectrochemical water oxidation. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 608, 1116-1125	9.3	3
11	Recent progress on post-synthetic treatments of photoelectrodes for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> ,	13	2
10	Graphdiyne-Stabilized Silver Nanoparticles as an Efficient Electrocatalyst for CO <sub>2</sub> Reduction. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2100037	1.6	2
9	Recent advances of graphdiyne: synthesis, functionalization, and electrocatalytic applications. <i>Materials Chemistry Frontiers</i> ,	7.8	2
8	Li-Doped Chemical Bath Deposited SnO <sub>2</sub> Enables Efficient Perovskite Photovoltaics. <i>ACS Applied Energy Materials</i> ,	6.1	1
7	Employ ionic liquid to stabilize black-phase formamidinium perovskites. <i>Science China Chemistry</i> , <b>2021</b> , 64, 1263-1264	7.9	1
6	Tunable Photocatalytic Two-Electron Shuttle between Paired Redox Sites on Halide Perovskite Nanocrystals. <i>ACS Catalysis</i> , 5903-5910	13.1	1
5	Multiexciton state of singlet fission in triisopropylsilylethynyl-pentacene. <i>Microwave and Optical Technology Letters</i> , <b>2021</b> , 63, 1399-1405	1.2	0

4	Methylammonium- and bromide-free perovskites enable efficient and stable photovoltaics. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 63, 12-24	12	○
3	Lanthanide doped lead-free double perovskites as the promising next generation ultra-broadband light sources.. <i>Light: Science and Applications</i> , <b>2022</b> , 11, 99	16.7	○
2	Efficient and Stable FA-Rich Perovskite Photovoltaics: From Material Properties to Device Optimization. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2200111	21.8	○
1	23.5: Invited Paper: Quasi-2D perovskites for efficient light-emitting diodes. <i>Digest of Technical Papers SID International Symposium</i> , <b>2021</b> , 52, 305-305	0.5	○