

# Mingjian Yuan

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3731906/mingjian-yuan-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	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
110	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	0
109	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	0
108	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
107	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
106	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
105	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
104	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
103	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
102	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
101	Employ ionic liquid to stabilize black-phase formamidinium perovskites. <i>Science China Chemistry</i> , <b>2021</b> , 64, 1263-1264	7.9	1
100	High-performance large-area quasi-2D perovskite light-emitting diodes. <i>Nature Communications</i> , <b>2021</b> , 12, 2207	17.4	58
99	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
98	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
97	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
96	Multiexciton state of singlet fission in triisopropylsilylethynyl-pentacene. <i>Microwave and Optical Technology Letters</i> , <b>2021</b> , 63, 1399-1405	1.2	0
95	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

94	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	
93	Halogen-halogen bonds enable improved long-term operational stability of mixed-halide perovskite photovoltaics. <i>CheM</i> , <b>2021</b> ,	16.2	10
92	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
91	Methylammonium- and bromide-free perovskites enable efficient and stable photovoltaics. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 63, 12-24	12	0
90	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
89	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
88	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
87	Structured Perovskite Light Absorbers for Efficient and Stable Photovoltaics. <i>Advanced Materials</i> , <b>2020</b> , 32, e1903937	24	44
86	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
85	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
84	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
83	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
82	High Color Purity Lead-Free Perovskite Light-Emitting Diodes via Sn Stabilization. <i>Advanced Science</i> , <b>2020</b> , 7, 1903213	13.6	85
81	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
80	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
79	Stabilization of cobalt clusters with graphdiyne enabling efficient overall water splitting. <i>Nano Energy</i> , <b>2020</b> , 74, 104852	17.1	21
78	Low-dimensionality perovskites yield high electroluminescence. <i>Science Bulletin</i> , <b>2020</b> , 65, 1057-1060	10.6	8
77	Reduced-dimensional perovskite photovoltaics with homogeneous energy landscape. <i>Nature Communications</i> , <b>2020</b> , 11, 1672	17.4	102

76	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
75	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
74	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
73	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
72	Metal halide perovskites for blue light emitting materials. <i>APL Materials</i> , <b>2020</b> , 8, 040907	5.7	7
71	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
70	Spectra stable blue perovskite light-emitting diodes. <i>Nature Communications</i> , <b>2019</b> , 10, 1868	17.4	218
69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	All-Inorganic Perovskite Solar Cells Based on CsPbI <sub>3</sub> and Metal Oxide Transport Layers with Improved Stability. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	22
61	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
60	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
59	Fast Postmoisture Treatment of Luminescent Perovskite Films for Efficient Light-Emitting Diodes. <i>Small</i> , <b>2018</b> , 14, e1703410	11	28

58	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
57	Reduced-Dimensional CsPbX <sub>3</sub> Perovskites for Efficient and Stable Photovoltaics. <i>Joule</i> , <b>2018</b> , 2, 1356-1368	13.68	255
56	Electron-phonon interaction in efficient perovskite blue emitters. <i>Nature Materials</i> , <b>2018</b> , 17, 550-556	27	310
55	Efficient and stable solution-processed planar perovskite solar cells via contact passivation. <i>Science</i> , <b>2017</b> , 355, 722-726	33.3	1667
54	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
53	Solution processed double-decked V <sub>2</sub> O <sub>x</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
52	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
51	Efficient and stable perovskite solar cells based on high-quality CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> -xCl <sub>x</sub> films modified by V <sub>2</sub> O <sub>x</sub> additives. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24282-24291	13	21
50	Highly Efficient Perovskite-Quantum-Dot Light-Emitting Diodes by Surface Engineering. <i>Advanced Materials</i> , <b>2016</b> , 28, 8718-8725	24	700
49	Colloidal quantum dot solids for solution-processed solar cells. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	210
48	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
47	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
46	Perovskite energy funnels for efficient light-emitting diodes. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 872-877	28.7	1484
45	Passivation Using Molecular Halides Increases Quantum Dot Solar Cell Performance. <i>Advanced Materials</i> , <b>2016</b> , 28, 299-304	24	279
44	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , <b>2016</b> , 352, 333-7	33.3	1459
43	Ligand-Stabilized Reduced-Dimensionality Perovskites. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 2649-55	16.4	889
42	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
41	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

40	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
39	Perovskite-fullerene hybrid materials suppress hysteresis in planar diodes. <i>Nature Communications</i> , <b>2015</b> , 6, 7081	17.4	815
38	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
37	All-Quantum-Dot Infrared Light-Emitting Diodes. <i>ACS Nano</i> , <b>2015</b> , 9, 12327-33	16.7	48
36	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
35	Planar-integrated single-crystalline perovskite photodetectors. <i>Nature Communications</i> , <b>2015</b> , 6, 8724	17.4	497
34	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
33	High-performance quantum-dot solids via elemental sulfur synthesis. <i>Advanced Materials</i> , <b>2014</b> , 26, 3513-22	32.9	35
32	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
31	Doping control via molecularly engineered surface ligand coordination. <i>Advanced Materials</i> , <b>2013</b> , 25, 5586-92	24	55
30	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
29	Jointly tuned plasmonic-excitonic photovoltaics using nanoshells. <i>Nano Letters</i> , <b>2013</b> , 13, 1502-8	11.5	89
28	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
27	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
26	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
25	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
24	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
23	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

22	Controllable Growth of 0D to Multidimensional Nanostructures of a Novel Porphyrin Molecule. <i>Advanced Materials</i> , <b>2009</b> , 21, 1721-1725	24	66
21	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
20	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 <sup>2</sup> -1592 <sup>41</sup>		
19	Visible near-infrared chemosensor for mercury ion. <i>Organic Letters</i> , <b>2008</b> , 10, 1481-4	6.2	348
18	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
17	Large third-order optical nonlinear effects of gold nanoparticles with unusual fluorescence enhancement. <i>Langmuir</i> , <b>2008</b> , 24, 8297-302	4	25
16	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
15	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 <sup>2.5</sup>		64
14	Controlled growth and field emission properties of CuS nanowalls. <i>Nanotechnology</i> , <b>2007</b> , 18, 145706	3.4	61
13	Spontaneously aggregated chiral nanostructures from achiral tripod-terpyridine. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 8063-8	3.4	13
12	Unusual fluorescence enhancement of a novel carbazolyldiacetylene bound to gold nanoparticles. <i>Langmuir</i> , <b>2007</b> , 23, 6754-60	4	39
11	Controlled aggregation of functionalized gold nanoparticles with a novel conjugated oligomer. <i>ChemPhysChem</i> , <b>2007</b> , 8, 906-12	3.2	18
10	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
9	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
8	Self-assembly of conjugated polymers and ds-oligonucleotides directed fractal-like aggregates. <i>Biomacromolecules</i> , <b>2007</b> , 8, 1723-9	6.9	31
7	Synthesis, characterization, and self-assembly of nitrogen-containing heterocoronetetra-carboxylic 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
6	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
5	Recent progress on post-synthetic treatments of photoelectrodes for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> ,	13	2

4	Li-Doped Chemical Bath Deposited SnO <sub>2</sub> Enables Efficient Perovskite Photovoltaics. <i>ACS Applied Energy Materials</i> ,	6.1	1
3	Recent Progress on Formamidinium-Dominated Perovskite Photovoltaics. <i>Advanced Energy Materials</i> ,2100690	21.8	12
2	Recent advances of graphdiyne: synthesis, functionalization, and electrocatalytic applications. <i>Materials Chemistry Frontiers</i> ,	7.8	2
1	Tunable Photocatalytic Two-Electron Shuttle between Paired Redox Sites on Halide Perovskite Nanocrystals. <i>ACS Catalysis</i> ,5903-5910	13.1	1