

# Jacob Tse-Wei Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

12,596  
citations

361413

20  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

17842  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Large-Area MoS <sub>2</sub> Atomic Layers with Chemical Vapor Deposition. <i>Advanced Materials</i> , 2012, 24, 2320-2325.	21.0	2,956
2	Anomalous Hysteresis in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1511-1515.	4.6	2,190
3	Direct measurement of the exciton binding energy and effective masses for charge carriers in organic-inorganic tri-halide perovskites. <i>Nature Physics</i> , 2015, 11, 582-587.	16.7	1,651
4	Perovskite-perovskite tandem photovoltaics with optimized band gaps. <i>Science</i> , 2016, 354, 861-865.	12.6	1,107
5	Planar perovskite solar cells with long-term stability using ionic liquid additives. <i>Nature</i> , 2019, 571, 245-250.	27.8	1,103
6	Low-Temperature Processed Electron Collection Layers of Graphene/TiO <sub>2</sub> Nanocomposites in Thin Film Perovskite Solar Cells. <i>Nano Letters</i> , 2014, 14, 724-730.	9.1	999
7	Determination of the exciton binding energy and effective masses for methylammonium and formamidinium lead tri-halide perovskite semiconductors. <i>Energy and Environmental Science</i> , 2016, 9, 962-970.	30.8	603
8	Efficient perovskite solar cells by metal ion doping. <i>Energy and Environmental Science</i> , 2016, 9, 2892-2901.	30.8	372
9	C <sub>60</sub> as an Efficient n-Type Compact Layer in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2399-2405.	4.6	324
10	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. <i>Advanced Materials</i> , 2016, 28, 923-929.	21.0	257
11	Oxygen Degradation in Mesoporous Al <sub>2</sub> O <sub>3</sub> /CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells: Kinetics and Mechanisms. <i>Advanced Energy Materials</i> , 2016, 6, 1600014.	10.5	251
12	Label-free detection of DNA hybridization using transistors based on CVD grown graphene. <i>Biosensors and Bioelectronics</i> , 2013, 41, 103-109.	10.1	185
13	Interface-Dependent Ion Migration/Accumulation Controls Hysteresis in MAPbI <sub>3</sub> Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16399-16411.	3.1	118
14	A Universal Deposition Protocol for Planar Heterojunction Solar Cells with High Efficiency Based on Hybrid Lead Halide Perovskite Families. <i>Advanced Materials</i> , 2016, 28, 10701-10709.	21.0	100
15	Phosphoric acid-doped cross-linked porous polybenzimidazole membranes for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 15660.	6.7	99
16	Fabrication of stretchable MoS <sub>2</sub> thin-film transistors using elastic ion-gel gate dielectrics. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	96
17	Enhanced high-temperature polymer electrolyte membrane for fuel cells based on polybenzimidazole and ionic liquids. <i>Electrochimica Acta</i> , 2011, 56, 2842-2846.	5.2	85
18	Degradation Kinetics of Inverted Perovskite Solar Cells. <i>Scientific Reports</i> , 2018, 8, 5977.	3.3	44

#	ARTICLE	IF	CITATIONS
19	Strategically Constructed Bilayer Tin (IV) Oxide as Electron Transport Layer Boosts Performance and Reduces Hysteresis in Perovskite Solar Cells. <i>Small</i> , 2020, 16, e1901466.	10.0	32
20	Bulk recrystallization for efficient mixed-cation mixed-halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25511-25520.	10.3	27
21	Insights Into the Microscopic and Degradation Processes in Hybrid Perovskite Solar Cells Using Noise Spectroscopy. <i>Solar Rrl</i> , 2018, 2, 1700173.	5.8	13
22	Efficient reduction of graphene oxide catalyzed by copper. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3083.	2.8	12
23	Passivation by pyridine-induced $\text{PbI}_2$ in methylammonium lead iodide perovskites. <i>RSC Advances</i> , 2020, 10, 23829-23833.	3.6	8
24	Tunable transition metal complexes as hole transport materials for stable perovskite solar cells. <i>Chemical Communications</i> , 2021, 57, 2093-2096.	4.1	4
25	Getting rid of anti-solvents: gas quenching for high performance perovskite solar cells. , 2018, , .		0