

# Issam Gereige

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

2,688  
citations

279487

23  
h-index

233125

45  
g-index

48  
all docs

48  
docs citations

48  
times ranked

4667  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Crystal MAPbI <sub>3</sub> Perovskite Solar Cells Exceeding 21% Power Conversion Efficiency. ACS Energy Letters, 2019, 4, 1258-1259.	8.8	424
2	Inside Perovskites: Quantum Luminescence from Bulk Cs <sub>4</sub> PbBr <sub>6</sub> Single Crystals. Chemistry of Materials, 2017, 29, 7108-7113.	3.2	200
3	Z-scheme Photocatalytic CO <sub>2</sub> Conversion on Three-Dimensional BiVO <sub>4</sub> /Carbon-Coated Cu <sub>2</sub> O Nanowire Arrays under Visible Light. ACS Catalysis, 2018, 8, 4170-4177.	5.5	190
4	Amine-Functionalized Graphene/CdS Composite for Photocatalytic Reduction of CO <sub>2</sub> . ACS Catalysis, 2017, 7, 7064-7069.	5.5	189
5	Low-Temperature Crystallization Enables 21.9% Efficient Single-Crystal MAPbI <sub>3</sub> Inverted Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 657-662.	8.8	171
6	Polymer Solar Cells with Efficiency >10% Enabled via a Facile Solution-Processed Al-Doped ZnO Electron Transporting Layer. Advanced Energy Materials, 2015, 5, 1500204.	10.2	142
7	CsPb <sub>2</sub> Br <sub>5</sub> Single Crystals: Synthesis and Characterization. ChemSusChem, 2017, 10, 3746-3749.	3.6	130
8	Highly Transparent and UV-Resistant Superhydrophobic SiO <sub>2</sub> -Coated ZnO Nanorod Arrays. ACS Applied Materials & Interfaces, 2014, 6, 2219-2223.	4.0	128
9	Highly Efficient and Stable CO <sub>2</sub> Reduction Photocatalyst with a Hierarchical Structure of Mesoporous TiO <sub>2</sub> on 3D Graphene with Few-Layered MoS <sub>2</sub> . ACS Sustainable Chemistry and Engineering, 2018, 6, 5718-5724.	3.2	110
10	Dual-Function Electron-Conductive, Hole-Blocking Titanium Nitride Contacts for Efficient Silicon Solar Cells. Joule, 2019, 3, 1314-1327.	11.7	91
11	Cu/Cu <sub>2</sub> O Interconnected Porous Aerogel Catalyst for Highly Productive Electrosynthesis of Ethanol from CO <sub>2</sub> . Advanced Functional Materials, 2021, 31, 2102142.	7.8	90
12	Ultralong Radiative States in Hybrid Perovskite Crystals: Compositions for Submillimeter Diffusion Lengths. Journal of Physical Chemistry Letters, 2017, 8, 4386-4390.	2.1	83
13	Automated, robotic dry-cleaning of solar panels in Thuwal, Saudi Arabia using a silicone rubber brush. Solar Energy, 2018, 171, 526-533.	2.9	73
14	Understanding effects of precursor solution aging in triple cation lead perovskite. RSC Advances, 2018, 8, 21551-21557.	1.7	53
15	Improving Uniformity and Reproducibility of Hybrid Perovskite Solar Cells via a Low-Temperature Vacuum Deposition Process for NiO <sub>x</sub> Hole Transport Layers. ACS Applied Materials & Interfaces, 2018, 10, 534-540.	4.0	49
16	High Facets on Nanowrinkled Cu via Chemical Vapor Deposition Graphene Growth for Efficient CO <sub>2</sub> Reduction into Ethanol. ACS Catalysis, 2021, 11, 5658-5665.	5.5	46
17	Synergistic Effect of Cu <sub>2</sub> O Mesh Pattern on High-Facet Cu Surface for Selective CO <sub>2</sub> Electroreduction to Ethanol. Advanced Materials, 2022, 34, e2106028.	11.1	44
18	Effects of temperature and coating speed on the morphology of solution-sheared halide perovskite thin-films. Journal of Materials Chemistry A, 2018, 6, 24911-24919.	5.2	40

#	ARTICLE	IF	CITATIONS
19	MAPbI <sub>3</sub> Single Crystals Free from Hole-Trapping Centers for Enhanced Photodetectivity. ACS Energy Letters, 2019, 4, 2579-2584.	8.8	40
20	Heat generation and mitigation in silicon solar cells and modules. Joule, 2021, 5, 631-645.	11.7	38
21	Performance assessment of bifacial c-Si PV modules through device simulations and outdoor measurements. Renewable Energy, 2019, 143, 1285-1298.	4.3	35
22	Delayed Photoluminescence and Modified Blinking Statistics in Alumina-Encapsulated Zero-Dimensional Inorganic Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 6780-6787.	2.1	31
23	Combinatorial study of NaF addition in CIGSe films for high efficiency solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 269-280.	4.4	30
24	Extraordinary dendrite-free Li deposition on highly uniform facet wrinkled Cu substrates in carbonate electrolytes. Nano Energy, 2021, 82, 105736.	8.2	24
25	Engineering Surface Orientations for Efficient and Stable Hybrid Perovskite Single-Crystal Solar Cells. ACS Energy Letters, 2022, 7, 1544-1552.	8.8	24
26	Generation of high-density nanoparticles in the carbothermal shock method. Science Advances, 2021, 7, eabk2984.	4.7	23
27	Ternary Hybrid Aerogels of g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> on a 3D Graphene Network: An Efficient and Recyclable Z-scheme Photocatalyst. ChemPlusChem, 2020, 85, 169-175.	1.3	19
28	Tuning the wettability of the blade enhances solution-sheared perovskite solar cell performance. Nano Energy, 2020, 74, 104830.	8.2	19
29	Recognition of diffraction-grating profile using a neural network classifier in optical scatterometry. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 1661.	0.8	17
30	Ultrafast pump-probe reflectance spectroscopy: Why sodium makes Cu(In,Ga)Se <sub>2</sub> solar cells better. Solar Energy Materials and Solar Cells, 2015, 140, 33-37.	3.0	16
31	Confined cavity on a mass-producible wrinkle film promotes selective CO <sub>2</sub> reduction. Journal of Materials Chemistry A, 2020, 8, 14592-14599.	5.2	16
32	Nanoscale Wrinkled Cu as a Current Collector for High-Loading Graphite Anode in Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 2576-2583.	4.0	15
33	Interface Matters: Enhanced Photoluminescence and Long-Term Stability of Zero-Dimensional Cesium Lead Bromide Nanocrystals via Gas-Phase Aluminum Oxide Encapsulation. ACS Applied Materials & Interfaces, 2020, 12, 35598-35605.	4.0	14
34	Dynamical Interconversion between Excitons and Geminate Charge Pairs in Two-Dimensional Perovskite Layers Described by the Onsager-Braun Model. Journal of Physical Chemistry Letters, 2020, 11, 1112-1119.	2.1	14
35	Photoactivated p-Doping of Organic Interlayer Enables Efficient Perovskite/Silicon Tandem Solar Cells. ACS Energy Letters, 2022, 7, 1987-1993.	8.8	14
36	Rapid Control of submicrometer periodic structures by a neural inversion from ellipsometric measurement. Optics Communications, 2007, 278, 270-273.	1.0	11

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37	Soiling Loss Rate Measurements of Photovoltaic Modules in a Hot and Humid Desert Environment. Journal of Solar Energy Engineering, Transactions of the ASME, 2021, 143, .	1.1	8
38	2D simulation and performance evaluation of bifacial rear local contact c-Si solar cells under variable illumination conditions. Solar Energy, 2017, 158, 34-41.	2.9	6
39	Demonstration of the feasibility of a complete ellipsometric characterization method based on an artificial neural network. Applied Optics, 2009, 48, 5318.	2.1	5
40	Dimensional characterization of biperiodic imprinted structures using optical scatterometry. Microelectronic Engineering, 2013, 112, 27-30.	1.1	4
41	Automatic detection of NIL defects using microscopy and image processing. Microelectronic Engineering, 2013, 112, 163-167.	1.1	4
42	Automatic detection of photoresist residual layer in lithography using a neural classification approach. Microelectronic Engineering, 2012, 97, 29-32.	1.1	2
43	Application of neural classification in ellipsometry for robust thin-film characterizations. Thin Solid Films, 2010, 518, 4091-4094.	0.8	1
44	Characterization of imprinted gratings based on transparent materials by transmission scatterometry. Microelectronic Engineering, 2013, 106, 48-51.	1.1	1
45	Optimal architecture of a neural network for a high precision in ellipsometric scatterometry. , 2007, , .		0
46	Study of the behaviour of monomers in thermal nanoimprint lithography. Microelectronic Engineering, 2010, 87, 1024-1028.	1.1	0
47	Electron-Conductive, Hole-Blocking Contact for Silicon Solar Cells. , 2019, , .		0