Issam Gereige

List of Publications by Year
in descending order

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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	Synergistic Effect of Cu₂O Mesh Pattern on Highâ€Facet Cu Surface for Selective CO₂ Electroreduction to Ethanol. Advanced Materials, 2022, 34, e2106028.	11.1	44
2	Engineering Surface Orientations for Efficient and Stable Hybrid Perovskite Single-Crystal Solar Cells. ACS Energy Letters, 2022, 7, 1544-1552.	8.8	24
3	Photoactivated p-Doping of Organic Interlayer Enables Efficient Perovskite/Silicon Tandem Solar Cells. ACS Energy Letters, 2022, 7, 1987-1993.	8.8	14
4	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
5	Heat generation and mitigation in silicon solar cells and modules. Joule, 2021, 5, 631-645.	11.7	38
6	High Facets on Nanowrinkled Cu via Chemical Vapor Deposition Graphene Growth for Efficient CO₂ Reduction into Ethanol. ACS Catalysis, 2021, 11, 5658-5665.	5.5	46
7	Extraordinary dendrite-free Li deposition on highly uniform facet wrinkled Cu substrates in carbonate electrolytes. Nano Energy, 2021, 82, 105736.	8.2	24
8	Cu/Cu₂O Interconnected Porous Aerogel Catalyst for Highly Productive Electrosynthesis of Ethanol from CO₂. Advanced Functional Materials, 2021, 31, 2102142.	7.8	90
9	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
10	Generation of high-density nanoparticles in the carbothermal shock method. Science Advances, 2021, 7, eabk2984.	4.7	23
11	Ternary Hybrid Aerogels of gâ€C₃N₄/Î±â€Fe₂O₃ on a 3D Graphene Network: An Efficient and Recyclable Zâ€Scheme Photocatalyst. ChemPlusChem, 2020, 85, 169-175.	1.3	19
12	Confined cavity on a mass-producible wrinkle film promotes selective CO₂ reduction. Journal of Materials Chemistry A, 2020, 8, 14592-14599.	5.2	16
13	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
14	Low-Temperature Crystallization Enables 21.9% Efficient Single-Crystal MAPbI₃ Inverted Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 657-662.	8.8	171
15	Dynamical Interconversion between Excitons and Geminate Charge Pairs in Two-Dimensional Perovskite Layers Described by the Onsagerâ€“Braun Model. Journal of Physical Chemistry Letters, 2020, 11, 1112-1119.	2.1	14
16	Tuning the wettability of the blade enhances solution-sheared perovskite solar cell performance. Nano Energy, 2020, 74, 104830.	8.2	19
17	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
18	MAPbI₃ Single Crystals Free from Hole-Trapping Centers for Enhanced Photodetectivity. ACS Energy Letters, 2019, 4, 2579-2584.	8.8	40

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19	Performance assessment of bifacial c-Si PV modules through device simulations and outdoor measurements. Renewable Energy, 2019, 143, 1285-1298.	4.3	35
20	Dual-Function Electron-Conductive, Hole-Blocking Titanium Nitride Contacts for Efficient Silicon Solar Cells. Joule, 2019, 3, 1314-1327.	11.7	91
21	Single-Crystal MAPbI₃ Perovskite Solar Cells Exceeding 21% Power Conversion Efficiency. ACS Energy Letters, 2019, 4, 1258-1259.	8.8	424
22	Electron-Conductive, Hole-Blocking Contact for Silicon Solar Cells. , 2019, , .		0
23	Z-scheme Photocatalytic CO₂ Conversion on Three-Dimensional BiVO₄/Carbon-Coated Cu₂O Nanowire Arrays under Visible Light. ACS Catalysis, 2018, 8, 4170-4177.	5.5	190
24	Highly Efficient and Stable CO₂ Reduction Photocatalyst with a Hierarchical Structure of Mesoporous TiO₂ on 3D Graphene with Few-Layered MoS₂. ACS Sustainable Chemistry and Engineering, 2018, 6, 5718-5724.	3.2	110
25	Improving Uniformity and Reproducibility of Hybrid Perovskite Solar Cells via a Low-Temperature Vacuum Deposition Process for NiO_x Hole Transport Layers. ACS Applied Materials & Interfaces, 2018, 10, 534-540.	4.0	49
26	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
27	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
28	Understanding effects of precursor solution aging in triple cation lead perovskite. RSC Advances, 2018, 8, 21551-21557.	1.7	53
29	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
30	Ultralong Radiative States in Hybrid Perovskite Crystals: Compositions for Submillimeter Diffusion Lengths. Journal of Physical Chemistry Letters, 2017, 8, 4386-4390.	2.1	83
31	Amine-Functionalized Graphene/CdS Composite for Photocatalytic Reduction of CO₂. ACS Catalysis, 2017, 7, 7064-7069.	5.5	189
32	Inside Perovskites: Quantum Luminescence from Bulk Cs₄PbBr₆ Single Crystals. Chemistry of Materials, 2017, 29, 7108-7113.	3.2	200
33	CsPb₂Br₅ Single Crystals: Synthesis and Characterization. ChemSusChem, 2017, 10, 3746-3749.	3.6	130
34	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
35	Polymer Solar Cells with Efficiency >10% Enabled via a Facile Solutionâ€Processed Alâ€Doped ZnO Electron Transporting Layer. Advanced Energy Materials, 2015, 5, 1500204.	10.2	142
36	Ultrafast pump-probe reflectance spectroscopy: Why sodium makes Cu(In,Ga)Se2 solar cells better. Solar Energy Materials and Solar Cells, 2015, 140, 33-37.	3.0	16

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37	Highly Transparent and UV-Resistant Superhydrophobic SiO₂-Coated ZnO Nanorod Arrays. ACS Applied Materials & Interfaces, 2014, 6, 2219-2223.	4.0	128
38	Characterization of imprinted gratings based on transparent materials by transmission scatterometry. Microelectronic Engineering, 2013, 106, 48-51.	1.1	1
39	Dimensional characterization of biperiodic imprinted structures using optical scatterometry. Microelectronic Engineering, 2013, 112, 27-30.	1.1	4
40	Automatic detection of NIL defects using microscopy and image processing. Microelectronic Engineering, 2013, 112, 163-167.	1.1	4
41	Automatic detection of photoresist residual layer in lithography using a neural classification approach. Microelectronic Engineering, 2012, 97, 29-32.	1.1	2
42	Study of the behaviour of monomers in thermal nanoimprint lithography. Microelectronic Engineering, 2010, 87, 1024-1028.	1.1	0
43	Application of neural classification in ellipsometry for robust thin-film characterizations. Thin Solid Films, 2010, 518, 4091-4094.	0.8	1
44	Demonstration of the feasibility of a complete ellipsometric characterization method based on an artificial neural network. Applied Optics, 2009, 48, 5318.	2.1	5
45	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
46	Optimal architecture of a neural network for a high precision in ellipsometric scatterometry. , 2007, , .		0
47	Rapid Control of submicrometer periodic structures by a neural inversion from ellipsometric measurement. Optics Communications, 2007, 278, 270-273.	1.0	11