

# David Lam

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Charge-Carrier Mobility Requirements for Bulk Heterojunction Solar Cells with High Fill Factor and External Quantum Efficiency >90%. <i>Advanced Energy Materials</i> , 2015, 5, 1500577.	19.5	214
2	Humidity Sensing through Reversible Isomerization of a Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 783-791.	13.7	190
3	Spray Deposition of Silver Nanowire Electrodes for Semitransparent Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 1657-1663.	19.5	99
4	Solution-Based Processing of Optoelectronically Active Indium Selenide. <i>Advanced Materials</i> , 2018, 30, e1802990.	21.0	78
5	Expression of interfacial Seebeck coefficient through grain boundary engineering with multi-layer graphene nanoplatelets. <i>Energy and Environmental Science</i> , 2020, 13, 4114-4121.	30.8	78
6	Layer-by-Layer Sorting of Rhenium Disulfide via High-Density Isopycnic Density Gradient Ultracentrifugation. <i>Nano Letters</i> , 2016, 16, 7216-7223.	9.1	54
7	Anhydrous Liquid-Phase Exfoliation of Pristine Electrochemically Active GeS Nanosheets. <i>Chemistry of Materials</i> , 2018, 30, 2245-2250.	6.7	41
8	In Situ, Atomic-Resolution Observation of Lithiation and Sodiation of WS <sub>2</sub> Nanoflakes: Implications for Lithium-Ion and Sodium-Ion Batteries. <i>Small</i> , 2021, 17, e2100637.	10.0	22
9	Large-area optoelectronic-grade InSe thin films via controlled phase evolution. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	17
10	Intrinsic carrier multiplication in layered Bi <sub>2</sub> O <sub>2</sub> Se avalanche photodiodes with gain bandwidth product exceeding 1 GHz. <i>Nano Research</i> , 2021, 14, 1961-1966.	10.4	17
11	Visualizing Thermally Activated Memristive Switching in Percolating Networks of Solution-Processed 2D Semiconductors. <i>Advanced Functional Materials</i> , 2021, 31, 2107385.	14.9	17
12	Liquid-Phase Exfoliation of Magnetically and Optoelectronically Active Ruthenium Trichloride Nanosheets. <i>ACS Nano</i> , 2022, 16, 11315-11324.	14.6	10
13	Morphotaxy of Layered van der Waals Materials. <i>ACS Nano</i> , 2022, 16, 7144-7167.	14.6	8
14	Lithium/Sodium-Ion Batteries: In Situ, Atomic-Resolution Observation of Lithiation and Sodiation of WS <sub>2</sub> Nanoflakes: Implications for Lithium-Ion and Sodium-Ion Batteries ( <i>Small</i> 24/2021). <i>Small</i> , 2021, 17, 2170120.	10.0	0