

Itamar Balla

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

1,922
citations

567144

15
h-index

794469

19
g-index

20
all docs

20
docs citations

20
times ranked

4141
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-terminal memtransistors from polycrystalline monolayer molybdenum disulfide. <i>Nature</i> , 2018, 554, 500-504.	13.7	705
2	Ultrafast Exciton Dissociation and Long-Lived Charge Separation in a Photovoltaic Pentacene-MoS ₂ van der Waals Heterojunction. <i>Nano Letters</i> , 2017, 17, 164-169.	4.5	195
3	Rotationally Commensurate Growth of MoS ₂ on Epitaxial Graphene. <i>ACS Nano</i> , 2016, 10, 1067-1075.	7.3	176
4	Emerging Opportunities for Two-Dimensional Materials in Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2026-2034.	8.8	131
5	Mutual Photoluminescence Quenching and Photovoltaic Effect in Large-Area Single-Layer MoS ₂ -Polymer Heterojunctions. <i>ACS Nano</i> , 2016, 10, 10573-10579.	7.3	99
6	Point Defects and Grain Boundaries in Rotationally Commensurate MoS ₂ on Epitaxial Graphene. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20798-20805.	1.5	99
7	Comprehensive Enhancement of Nanostructured Lithium-Ion Battery Cathode Materials via Conformal Graphene Dispersion. <i>Nano Letters</i> , 2017, 17, 2539-2546.	4.5	81
8	Self-assembly of electronically abrupt borophene/organic lateral heterostructures. <i>Science Advances</i> , 2017, 3, e1602356.	4.7	79
9	Chemical vapor deposition of monolayer MoS ₂ directly on ultrathin Al ₂ O ₃ for low-power electronics. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	72
10	Scanning Probe Nanopatterning and Layer-by-Layer Thinning of Black Phosphorus. <i>Advanced Materials</i> , 2017, 29, 1604121.	11.1	62
11	Layer-by-Layer Sorting of Rhenium Disulfide via High-Density Isopycnic Density Gradient Ultracentrifugation. <i>Nano Letters</i> , 2016, 16, 7216-7223.	4.5	54
12	Self-Aligned van der Waals Heterojunction Diodes and Transistors. <i>Nano Letters</i> , 2018, 18, 1421-1427.	4.5	51
13	Charge Separation at Mixed-Dimensional Single and Multilayer MoS ₂ /Silicon Nanowire Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16760-16767.	4.0	31
14	Valley-selective optical Stark effect probed by Kerr rotation. <i>Physical Review B</i> , 2018, 97, .	1.1	30
15	Atomic Layer Deposition of Molybdenum Oxides with Tunable Stoichiometry Enables Controllable Doping of MoS ₂ . <i>Chemistry of Materials</i> , 2018, 30, 3628-3632.	3.2	29
16	Ultrahigh Vacuum Self-Assembly of Rotationally Commensurate C8-BTBT/MoS ₂ /Graphene Mixed-Dimensional Heterostructures. <i>Chemistry of Materials</i> , 2019, 31, 1761-1766.	3.2	16
17	Selective Transfer of Rotationally Commensurate MoS ₂ from an Epitaxially Grown van der Waals Heterostructure. <i>Chemistry of Materials</i> , 2018, 30, 8495-8500.	3.2	6
18	Hexagonal patterns in thin films: Experiments and modeling. <i>Extreme Mechanics Letters</i> , 2015, 2, 65-71.	2.0	4

#	ARTICLE	IF	CITATIONS
19	Closed loop registration control (RegC) using PROVE as the data source for the RegC process. Proceedings of SPIE, 2012, , .	0.8	0