

Sina Najmaei

List of Publications by Year in descending order

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papers

12,655

citations

94433

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times ranked

15799

citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic Structural Defects in Monolayer Molybdenum Disulfide. <i>Nano Letters</i> , 2013, 13, 2615-2622.	9.1	1,766
2	Vapour phase growth and grain boundary structure of molybdenum disulphide atomic layers. <i>Nature Materials</i> , 2013, 12, 754-759.	27.5	1,590
3	Large- Area Vapor- Phase Growth and Characterization of MoS_{2} Atomic Layers on a SiO_2 Substrate. <i>Small</i> , 2012, 8, 966-971.	10.0	1,556
4	Black Phosphorus-“Monolayer MoS_{2} van der Waals Heterojunction p-n Diode. <i>ACS Nano</i> , 2014, 8, 8292-8299.	14.6	1,125
5	Second harmonic microscopy of monolayer MoS_2 . $\text{xmlns:mml} = \text{"http://www.w3.org/1998/Math/MathML"} \text{ display} = \text{"inline"} > \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle.$ <i>Physical Review B</i> , 2013, 87, .	3.2	539
6	Evolution of the Electronic Band Structure and Efficient Photo-Detection in Atomic Layers of InSe. <i>ACS Nano</i> , 2014, 8, 1263-1272.	14.6	534
7	Plasmonic Hot Electron Induced Structural Phase Transition in a MoS_{2} Monolayer. <i>Advanced Materials</i> , 2014, 26, 6467-6471.	21.0	516
8	Band Gap Engineering and Layer-by-Layer Mapping of Selenium-Doped Molybdenum Disulfide. <i>Nano Letters</i> , 2014, 14, 442-449.	9.1	463
9	Strain and structure heterogeneity in MoS_2 atomic layers grown by chemical vapour deposition. <i>Nature Communications</i> , 2014, 5, 5246.	12.8	453
10	Synthesis and Photoresponse of Large GaSe Atomic Layers. <i>Nano Letters</i> , 2013, 13, 2777-2781.	9.1	381
11	An Atomically Layered InSe Avalanche Photodetector. <i>Nano Letters</i> , 2015, 15, 3048-3055.	9.1	253
12	Facile Synthesis of Single Crystal Vanadium Disulfide Nanosheets by Chemical Vapor Deposition for Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2015, 27, 5605-5609.	21.0	241
13	Switching Mechanism in Single-Layer Molybdenum Disulfide Transistors: An Insight into Current Flow across Schottky Barriers. <i>ACS Nano</i> , 2014, 8, 1031-1038.	14.6	224
14	Enhancing the photocurrent and photoluminescence of single crystal monolayer MoS_2 with resonant plasmonic nanoshells. <i>Applied Physics Letters</i> , 2014, 104, 031112.	3.3	208
15	Electrical performance of monolayer MoS_2 field-effect transistors prepared by chemical vapor deposition. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	201
16	Temperature-dependent phonon shifts in monolayer MoS_2 . <i>Applied Physics Letters</i> , 2013, 103, .	3.3	199
17	Plasmonic Pumping of Excitonic Photoluminescence in Hybrid MoS_2 -Au Nanostructures. <i>ACS Nano</i> , 2014, 8, 12682-12689.	14.6	198
18	Statistical Study of Deep Submicron Dual-Gated Field-Effect Transistors on Monolayer Chemical Vapor Deposition Molybdenum Disulfide Films. <i>Nano Letters</i> , 2013, 13, 2640-2646.	9.1	197

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19	Optoelectronic devices based on two-dimensional transition metal dichalcogenides. <i>Nano Research</i> , 2016, 9, 1543-1560.	10.4	186
20	Photoluminescence Quenching and Charge Transfer in Artificial Heterostacks of Monolayer Transition Metal Dichalcogenides and Few-Layer Black Phosphorus. <i>ACS Nano</i> , 2015, 9, 555-563.	14.6	183
21	Metallic 1T phase source/drain electrodes for field effect transistors from chemical vapor deposited MoS ₂ . <i>APL Materials</i> , 2014, 2, .	5.1	155
22	Nanomechanical cleavage of molybdenum disulphide atomic layers. <i>Nature Communications</i> , 2014, 5, 3631.	12.8	144
23	Synthesis and Defect Investigation of Two-Dimensional Molybdenum Disulfide Atomic Layers. <i>Accounts of Chemical Research</i> , 2015, 48, 31-40.	15.6	140
24	Tailoring the Physical Properties of Molybdenum Disulfide Monolayers by Control of Interfacial Chemistry. <i>Nano Letters</i> , 2014, 14, 1354-1361.	9.1	129
25	Electrical Transport Properties of Polycrystalline Monolayer Molybdenum Disulfide. <i>ACS Nano</i> , 2014, 8, 7930-7937.	14.6	121
26	Nanoantenna-Enhanced Lightâ€“Matter Interaction in Atomically Thin WS ₂ . <i>ACS Photonics</i> , 2015, 2, 1260-1265.	6.6	114
27	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Lightâ€“Matter Interactions. <i>Advanced Materials</i> , 2015, 27, 7800-7808.	21.0	109
28	Growth-substrate induced performance degradation in chemically synthesized monolayer MoS ₂ field effect transistors. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	96
29	Quantitative analysis of the temperature dependency in Raman active vibrational modes of molybdenum disulfide atomic layers. <i>Nanoscale</i> , 2013, 5, 9758.	5.6	80
30	MoS ₂ atomic layers with artificial active edge sites as transparent counter electrodes for improved performance of dye-sensitized solar cells. <i>Nanoscale</i> , 2014, 6, 5279-5283.	5.6	78
31	Spatially Resolved Photoexcited Charge-Carrier Dynamics in Phase-Engineered Monolayer MoS ₂ . <i>ACS Nano</i> , 2015, 9, 840-849.	14.6	58
32	Opto-valleytronic imaging of atomically thin semiconductors. <i>Nature Nanotechnology</i> , 2017, 12, 329-334.	31.5	55
33	Temperature-Dependent Plasmonâ€“Exciton Interactions in Hybrid Au/MoSe ₂ Nanostructures. <i>ACS Photonics</i> , 2017, 4, 1653-1660.	6.6	51
34	Ternary Culn ₇ Se ₁₁ : Towards Ultra-thin Layered Photodetectors and Photovoltaic Devices. <i>Advanced Materials</i> , 2014, 26, 7666-7672.	21.0	43
35	Electrical transport and low-frequency noise in chemical vapor deposited single-layer MoS ₂ devices. <i>Nanotechnology</i> , 2014, 25, 155702.	2.6	43
36	Scalable Transfer of Suspended Two-Dimensional Single Crystals. <i>Nano Letters</i> , 2015, 15, 5089-5097.	9.1	38

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37	Exciton peak in folded monolayer MoS ₂ for the Integration of High- κ Dielectrics in Two-Dimensional Devices. <i>ACS Applied Nano Materials</i> , 2019, 2, 4085-4094.	5.0	36
38	Plasma-Enhanced Atomic Layer Deposition of HfO ₂ on Monolayer, Bilayer, and Trilayer MoS ₂ for the Integration of High- κ Dielectrics in Two-Dimensional Devices. <i>ACS Applied Nano Materials</i> , 2019, 2, 4085-4094.	5.0	37
39	Ultrafast Optical Microscopy of Single Monolayer Molybdenum Disulfide Flakes. <i>Scientific Reports</i> , 2016, 6, 21601.	3.3	35
40	High-response hybrid quantum dots- 2D conductor phototransistors: recent progress and perspectives. <i>Nanophotonics</i> , 2017, 6, 1263-1280.	6.0	23
41	Surface enhanced resonant Raman scattering in hybrid MoSe ₂ @Au nanostructures. <i>Optics Express</i> , 2018, 26, 29411.	3.4	20
42	Modifying the Ni-MoS ₂ Contact Interface Using a Broad-Beam Ion Source. <i>IEEE Electron Device Letters</i> , 2016, 37, 1234-1237.	3.9	12
43	Dominant ZA phonons and thermal carriers in HfS ₂ . <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	9
44	Correlation between Droplet-Induced Strain Actuation and Voltage Generation in Single-Wall Carbon Nanotube Films. <i>Nano Letters</i> , 2011, 11, 5117-5122.	9.1	6
45	Dynamically reconfigurable electronic and phononic properties in intercalated HfS ₂ . <i>Materials Today</i> , 2020, 39, 110-117.	14.2	4
46	Graphene/ZnO van der Waals Stacks for Thermal Management. <i>ACS Applied Nano Materials</i> , 2020, 3, 7136-7142.	5.0	4
47	Discrimination of 1- and 2-Propanol by Using the Transient Current Change of a Semiconducting ZnFe ₂ O ₄ Chemiresistor. <i>ChemPlusChem</i> , 2019, 84, 387-391.	2.8	1
48	A reversible structural transition at 300 K to a low-symmetry polytype of hafnium disulfide atomic layers. <i>Materials Today Communications</i> , 2021, 26, 101722.	1.9	1
49	Synthesis, characterization and engineering of two-dimensional transition metal dichalcogenides. , 2014, .	0	0