

Sina Najmaei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

10,590
citations

35
h-index

49
g-index

49
ext. papers

11,675
ext. citations

11.4
avg, IF

5.96
L-index

#	Paper	IF	Citations
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	2.5	
47	Dynamically reconfigurable electronic and phononic properties in intercalated HfS ₂ . <i>Materials Today</i> , 2020 , 39, 110-117	21.8	2
46	Graphene/ZnO van der Waals Stacks for Thermal Management. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7136-7142	6.1	20
45	Discrimination of 1- and 2-Propanol by Using the Transient Current Change of a Semiconducting ZnFe O Chemiresistor. <i>ChemPlusChem</i> , 2019 , 84, 387-391	2.8	1
44	Plasma-Enhanced Atomic Layer Deposition of HfO ₂ on Monolayer, Bilayer, and Trilayer MoS ₂ for the Integration of High- ϵ Dielectrics in Two-Dimensional Devices. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4085-4094	5.6	20
43	Dominant ZA phonons and thermal carriers in HfS ₂ . <i>Journal of Applied Physics</i> , 2019 , 126, 164302	2.5	4
42	Surface enhanced resonant Raman scattering in hybrid MoSe ₂ @Au nanostructures. <i>Optics Express</i> , 2018 , 26, 29411-29423	3.3	8
41	Opto-valleytronic imaging of atomically thin semiconductors. <i>Nature Nanotechnology</i> , 2017 , 12, 329-334	28.7	48
40	Temperature-Dependent Plasmon-Exciton Interactions in Hybrid Au/MoSe ₂ Nanostructures. <i>ACS Photonics</i> , 2017 , 4, 1653-1660	6.3	38
39	High-response hybrid quantum dots- 2D conductor phototransistors: recent progress and perspectives. <i>Nanophotonics</i> , 2017 , 6, 1263-1280	6.3	19
38	Modifying the Ni-MoS ₂ Contact Interface Using a Broad-Beam Ion Source. <i>IEEE Electron Device Letters</i> , 2016 , 37, 1234-1237	4.4	10
37	Ultrafast Optical Microscopy of Single Monolayer Molybdenum Disulfide Flakes. <i>Scientific Reports</i> , 2016 , 6, 21601	4.9	29
36	Optoelectronic devices based on two-dimensional transition metal dichalcogenides. <i>Nano Research</i> , 2016 , 9, 1543-1560	10	136
35	Nanoantenna-Enhanced Light-Matter Interaction in Atomically Thin WS ₂ . <i>ACS Photonics</i> , 2015 , 2, 1260-1265	26.5	92
34	Scalable Transfer of Suspended Two-Dimensional Single Crystals. <i>Nano Letters</i> , 2015 , 15, 5089-97	11.5	33
33	An Atomically Layered InSe Avalanche Photodetector. <i>Nano Letters</i> , 2015 , 15, 3048-55	11.5	201
32	Synthesis and defect investigation of two-dimensional molybdenum disulfide atomic layers. <i>Accounts of Chemical Research</i> , 2015 , 48, 31-40	24.3	110

31	Facile Synthesis of Single Crystal Vanadium Disulfide Nanosheets by Chemical Vapor Deposition for Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2015 , 27, 5605-9	24	202
30	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015 , 27, 7800-8	24	94
29	Spatially resolved photoexcited charge-carrier dynamics in phase-engineered monolayer MoS ₂ . <i>ACS Nano</i> , 2015 , 9, 840-9	16.7	47
28	Photoluminescence quenching and charge transfer in artificial heterostacks of monolayer transition metal dichalcogenides and few-layer black phosphorus. <i>ACS Nano</i> , 2015 , 9, 555-63	16.7	145
27	Tailoring the physical properties of molybdenum disulfide monolayers by control of interfacial chemistry. <i>Nano Letters</i> , 2014 , 14, 1354-61	11.5	110
26	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, 5279-83	7.7	72
25	Band gap engineering and layer-by-layer mapping of selenium-doped molybdenum disulfide. <i>Nano Letters</i> , 2014 , 14, 442-9	11.5	378
24	Enhancing the photocurrent and photoluminescence of single crystal monolayer MoS ₂ with resonant plasmonic nanoshells. <i>Applied Physics Letters</i> , 2014 , 104, 031112	3.4	182
23	Evolution of the electronic band structure and efficient photo-detection in atomic layers of InSe. <i>ACS Nano</i> , 2014 , 8, 1263-72	16.7	436
22	Metallic 1T phase source/drain electrodes for field effect transistors from chemical vapor deposited MoS ₂ . <i>APL Materials</i> , 2014 , 2, 092516	5.7	126
21	Strain and structure heterogeneity in MoS ₂ atomic layers grown by chemical vapour deposition. <i>Nature Communications</i> , 2014 , 5, 5246	17.4	352
20	Black phosphorus-monolayer MoS ₂ van der Waals heterojunction p-n diode. <i>ACS Nano</i> , 2014 , 8, 8292-9	16.7	979
19	Growth-substrate induced performance degradation in chemically synthesized monolayer MoS ₂ field effect transistors. <i>Applied Physics Letters</i> , 2014 , 104, 203506	3.4	74
18	Switching mechanism in single-layer molybdenum disulfide transistors: an insight into current flow across Schottky barriers. <i>ACS Nano</i> , 2014 , 8, 1031-8	16.7	202
17	Plasmonic hot electron induced structural phase transition in a MoS ₂ monolayer. <i>Advanced Materials</i> , 2014 , 26, 6467-71	24	429
16	Electrical transport properties of polycrystalline monolayer molybdenum disulfide. <i>ACS Nano</i> , 2014 , 8, 7930-7	16.7	96
15	Electrical transport and low-frequency noise in chemical vapor deposited single-layer MoS ₂ devices. <i>Nanotechnology</i> , 2014 , 25, 155702	3.4	41
14	Ternary CuIn ₇ Se ₁₁ : towards ultra-thin layered photodetectors and photovoltaic devices. <i>Advanced Materials</i> , 2014 , 26, 7666-72	24	37

13	Plasmonic pumping of excitonic photoluminescence in hybrid MoS ₂ -Au nanostructures. <i>ACS Nano</i> , 2014 , 8, 12682-9	16.7	169
12	Nanomechanical cleavage of molybdenum disulphide atomic layers. <i>Nature Communications</i> , 2014 , 5, 3631	17.4	118
11	Quantitative analysis of the temperature dependency in Raman active vibrational modes of molybdenum disulfide atomic layers. <i>Nanoscale</i> , 2013 , 5, 9758-63	7.7	61
10	Blueshift of the A-exciton peak in folded monolayer 1H-MoS ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	28
9	Statistical study of deep submicron dual-gated field-effect transistors on monolayer chemical vapor deposition molybdenum disulfide films. <i>Nano Letters</i> , 2013 , 13, 2640-6	11.5	168
8	Electrical performance of monolayer MoS ₂ field-effect transistors prepared by chemical vapor deposition. <i>Applied Physics Letters</i> , 2013 , 102, 193107	3.4	182
7	Synthesis and photoresponse of large GaSe atomic layers. <i>Nano Letters</i> , 2013 , 13, 2777-81	11.5	319
6	Intrinsic structural defects in monolayer molybdenum disulfide. <i>Nano Letters</i> , 2013 , 13, 2615-22	11.5	1418
5	Vapour phase growth and grain boundary structure of molybdenum disulphide atomic layers. <i>Nature Materials</i> , 2013 , 12, 754-9	27	1384
4	Second harmonic microscopy of monolayer MoS ₂ . <i>Physical Review B</i> , 2013 , 87,	3.3	423
3	Temperature-dependent phonon shifts in monolayer MoS ₂ . <i>Applied Physics Letters</i> , 2013 , 103, 093102	3.4	167
2	Large-area vapor-phase growth and characterization of MoS(2) atomic layers on a SiO(2) substrate. <i>Small</i> , 2012 , 8, 966-71	11	1394
1	Correlation between droplet-induced strain actuation and voltage generation in single-wall carbon nanotube films. <i>Nano Letters</i> , 2011 , 11, 5117-22	11.5	6