

Sina Najmaei

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9407505/sina-najmaei-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | Intrinsic structural defects in monolayer molybdenum disulfide. <i>Nano Letters</i> , 2013 , 13, 2615-22 | 11.5 | 1418 |
| 47 | 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 |
| 46 | Vapour phase growth and grain boundary structure of molybdenum disulphide atomic layers. <i>Nature Materials</i> , 2013 , 12, 754-9 | 27 | 1384 |
| 45 | Black phosphorus-monolayer MoS2 van der Waals heterojunction p-n diode. <i>ACS Nano</i> , 2014 , 8, 8292-9 | 16.7 | 979 |
| 44 | 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 |
| 43 | Plasmonic hot electron induced structural phase transition in a MoS2 monolayer. <i>Advanced Materials</i> , 2014 , 26, 6467-71 | 24 | 429 |
| 42 | Second harmonic microscopy of monolayer MoS2. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 423 |
| 41 | Band gap engineering and layer-by-layer mapping of selenium-doped molybdenum disulfide. <i>Nano Letters</i> , 2014 , 14, 442-9 | 11.5 | 378 |
| 40 | Strain and structure heterogeneity in MoS2 atomic layers grown by chemical vapour deposition. <i>Nature Communications</i> , 2014 , 5, 5246 | 17.4 | 352 |
| 39 | Synthesis and photoresponse of large GaSe atomic layers. <i>Nano Letters</i> , 2013 , 13, 2777-81 | 11.5 | 319 |
| 38 | 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 |
| 37 | 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 |
| 36 | An Atomically Layered InSe Avalanche Photodetector. <i>Nano Letters</i> , 2015 , 15, 3048-55 | 11.5 | 201 |
| 35 | Enhancing the photocurrent and photoluminescence of single crystal monolayer MoS2 with resonant plasmonic nanoshells. <i>Applied Physics Letters</i> , 2014 , 104, 031112 | 3.4 | 182 |
| 34 | Electrical performance of monolayer MoS2 field-effect transistors prepared by chemical vapor deposition. <i>Applied Physics Letters</i> , 2013 , 102, 193107 | 3.4 | 182 |
| 33 | Plasmonic pumping of excitonic photoluminescence in hybrid MoS2-Au nanostructures. <i>ACS Nano</i> , 2014 , 8, 12682-9 | 16.7 | 169 |
| 32 | 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 |

| | | | |
|----|--|------|-----|
| 31 | Temperature-dependent phonon shifts in monolayer MoS ₂ . <i>Applied Physics Letters</i> , 2013 , 103, 093102 | 3.4 | 167 |
| 30 | 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 |
| 29 | Optoelectronic devices based on two-dimensional transition metal dichalcogenides. <i>Nano Research</i> , 2016 , 9, 1543-1560 | 10 | 136 |
| 28 | 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 |
| 27 | Nanomechanical cleavage of molybdenum disulphide atomic layers. <i>Nature Communications</i> , 2014 , 5, 3631 | 17.4 | 118 |
| 26 | Synthesis and defect investigation of two-dimensional molybdenum disulfide atomic layers. <i>Accounts of Chemical Research</i> , 2015 , 48, 31-40 | 24.3 | 110 |
| 25 | Tailoring the physical properties of molybdenum disulfide monolayers by control of interfacial chemistry. <i>Nano Letters</i> , 2014 , 14, 1354-61 | 11.5 | 110 |
| 24 | Electrical transport properties of polycrystalline monolayer molybdenum disulfide. <i>ACS Nano</i> , 2014 , 8, 7930-7 | 16.7 | 96 |
| 23 | Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015 , 27, 7800-8 | 24 | 94 |
| 22 | Nanoantenna-Enhanced Light-Matter Interaction in Atomically Thin WS ₂ . <i>ACS Photonics</i> , 2015 , 2, 1260-1265 | 26.5 | 92 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | Opto-valleytronic imaging of atomically thin semiconductors. <i>Nature Nanotechnology</i> , 2017 , 12, 329-334 | 28.7 | 48 |
| 17 | Spatially resolved photoexcited charge-carrier dynamics in phase-engineered monolayer MoS ₂ . <i>ACS Nano</i> , 2015 , 9, 840-9 | 16.7 | 47 |
| 16 | Electrical transport and low-frequency noise in chemical vapor deposited single-layer MoS ₂ devices. <i>Nanotechnology</i> , 2014 , 25, 155702 | 3.4 | 41 |
| 15 | Temperature-Dependent Plasmon-Exciton Interactions in Hybrid Au/MoSe ₂ Nanostructures. <i>ACS Photonics</i> , 2017 , 4, 1653-1660 | 6.3 | 38 |
| 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 | Scalable Transfer of Suspended Two-Dimensional Single Crystals. <i>Nano Letters</i> , 2015 , 15, 5089-97 | 11.5 | 33 |
| 12 | Ultrafast Optical Microscopy of Single Monolayer Molybdenum Disulfide Flakes. <i>Scientific Reports</i> , 2016 , 6, 21601 | 4.9 | 29 |
| 11 | Blueshift of the A-exciton peak in folded monolayer 1H-MoS ₂ . <i>Physical Review B</i> , 2013 , 88, | 3.3 | 28 |
| 10 | Plasma-Enhanced Atomic Layer Deposition of HfO ₂ on Monolayer, Bilayer, and Trilayer MoS ₂ for the Integration of High-Dielectrics in Two-Dimensional Devices. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4085-4094 | 5.6 | 20 |
| 9 | High-response hybrid quantum dots- 2D conductor phototransistors: recent progress and perspectives. <i>Nanophotonics</i> , 2017 , 6, 1263-1280 | 6.3 | 19 |
| 8 | 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 |
| 7 | Surface enhanced resonant Raman scattering in hybrid MoSe ₂ @Au nanostructures. <i>Optics Express</i> , 2018 , 26, 29411-29423 | 3.3 | 8 |
| 6 | 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 |
| 5 | Dominant ZA phonons and thermal carriers in HfS ₂ . <i>Journal of Applied Physics</i> , 2019 , 126, 164302 | 2.5 | 4 |
| 4 | Dynamically reconfigurable electronic and phononic properties in intercalated HfS ₂ . <i>Materials Today</i> , 2020 , 39, 110-117 | 21.8 | 2 |
| 3 | 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 |
| 2 | Graphene/ZnO van der Waals Stacks for Thermal Management. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7136-7142 | 6.7 | 1 |
| 1 | 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 | |