Cormac

List of Publications by Citations

33 papers	558 citations	15 h-index	23 g-index
33 ext. papers	722 ext. citations	6.7 avg, IF	3.68 L-index

#	Paper	IF	Citations
33	Electrical devices from top-down structured platinum diselenide films. *Npj 2D Materials and Applications*, **2018**, 2,	8.8	50
32	Quantum confinement-induced semimetal-to-semiconductor evolution in large-area ultra-thin PtSe2 films grown at 400 ℃. *Npj 2D Materials and Applications*, **2019**, 3,	8.8	47
31	Spin-dependent transport properties of Fe3O4/MoS2/Fe3O4 junctions. *Scientific Reports*, **2015**, 5, 15984	4.9	41
30	High Selectivity Gas Sensing and Charge Transfer of SnSe. *ACS Sensors*, **2019**, 4, 2546-2552	9.2	40
29	Photo-enhanced gas sensing of SnS with nanoscale defects.. *RSC Advances*, **2019**, 9, 626-635	3.7	30
28	Strategy for Fabricating Wafer-Scale Platinum Disulfide. *ACS Applied Materials & Interfaces*, **2019**, 11, 8202-8209	9.5	29
27	Surface enhanced Raman scattering of monolayer MX2 with metallic nano particles. *Scientific Reports*, **2016**, 6, 30320	4.9	27
26	Two-Photon Absorption in Monolayer MXenes. *Advanced Optical Materials*, **2020**, 8, 1902021	8.1	26
25	Surface-State Assisted Carrier Recombination and Optical Nonlinearities in Bulk to 2D Nonlayered PtS. *ACS Nano*, **2019**, 13, 13390-13402	16.7	22
24	Quantum Confinement and Gas Sensing of Mechanically Exfoliated GaSe. *Advanced Materials Technologies*, **2017**, 2, 1600197	6.8	22
23	Insights into Multilevel Resistive Switching in Monolayer MoS. *ACS Applied Materials & Interfaces*, **2020**, 12, 6022-6029	9.5	22
22	PtSe 2 grown directly on polymer foil for use as a robust piezoresistive sensor. *2D Materials*, **2019**, 6, 045029	5.9	21
21	Enhanced NO Sensing at Room Temperature with Graphene via Monodisperse Polystyrene Bead Decoration. *ACS Omega*, **2019**, 4, 3812-3819	3.9	19
20	Probing thermal expansion coefficients of monolayers using surface enhanced Raman scattering. *RSC Advances*, **2016**, 6, 99053-99059	3.7	18
19	Enhanced Shubnikov-De Haas Oscillation in Nitrogen-Doped Graphene. *ACS Nano*, **2015**, 9, 7207-14	16.7	17
18	Low-temperature synthesis and electrocatalytic application of large-area PtTe thin films. *Nanotechnology*, **2020**, 31, 375601	3.4	14
17	Sub-millimeter size high mobility single crystal MoSe monolayers synthesized by NaCl-assisted chemical vapor deposition.. *RSC Advances*, **2020**, 10, 1580-1587	3.7	14

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16	Giant gauge factor of Van der Waals material based strain sensors. *Nature Communications*, **2021**, 12, 2018	17.4	14
15	Anomalous Anisotropic Magnetoresistance of Antiferromagnetic Epitaxial Bimetallic Films: Mn2Au and Mn2Au/Fe Bilayers. *Advanced Functional Materials*, **2016**, 26, 5884-5892	15.6	14
14	Highly Sensitive, Selective, Stable, and Flexible NO2 Sensor Based on GaSe. *Advanced Materials Technologies*, **2020**, 5, 1901085	6.8	11
13	Giant and Linear Piezo-Phototronic Response in Layered GaSe Nanosheets. *Advanced Electronic Materials*, **2018**, 4, 1700447	6.4	11
12	Imaging and identification of point defects in PtTe2. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	10
11	Directing the Morphology of Chemical Vapor Deposition-Grown MoS2 on Sapphire by Crystal Plane Selection. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 2000073	1.6	6
10	Effects of Annealing Temperature and Ambient on Metal/PtSe Contact Alloy Formation. *ACS Omega*, **2019**, 4, 17487-17493	3.9	6
9	Electronic and structural characterisation of polycrystalline platinum disulfide thin films.. *RSC Advances*, **2020**, 10, 42001-42007	3.7	6
8	Materials, Devices and Spin Transfer Torque in Antiferromagnetic Spintronics: A Concise Review. *Spin*, **2017**, 07, 1740014	1.3	5
7	Electrical Contact Barriers between a Three-Dimensional Metal and Layered SnS. *ACS Applied Materials & Interfaces*, **2020**, 12, 15830-15836	9.5	5
6	Threshold magnetoresistance in anistropic magnetic 2D transition metal dichalcogenides. *Journal of Materials Chemistry C*, **2018**, 6, 3058-3064	7.1	5
5	Structural and electrical characterisation of PtS from H2S-converted Pt. *Applied Materials Today*, **2021**, 25, 101163	6.6	3
4	Competition Between Anti-Phase Boundaries and Charge-Orbital Ordering in Epitaxial Stepped Fe3O4(100) Thin Films. *Spin*, **2017**, 07, 1750001	1.3	1
3	Photoelectrical properties of graphene/doped GeSn vertical heterostructures.. *RSC Advances*, **2020**, 10, 20921-20927	3.7	1
2	Charge density waves and degenerate modes in exfoliated monolayer 2H-TaS. *IUCrJ*, **2020**, 7, 913-919	4.7	1
1	Magnetoresistance of Nanoscale Domain Walls Formed in Arrays of Parallel Nanowires. *Spin*, **2019**, 09, 1950004	1.3	