

Efren Navarro-Moratalla

List of Publications by Year in descending order

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36
papers

7,792
citations

279798

23
h-index

361022

35
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36
all docs

36
docs citations

36
times ranked

9069
citing authors

#	ARTICLE	IF	CITATIONS
1	Layer-dependent ferromagnetism in a van der Waals crystal down to the monolayer limit. Nature, 2017, 546, 270-273.	27.8	3,824
2	Electrical control of 2D magnetism in bilayer CrI ₃ . Nature Nanotechnology, 2018, 13, 544-548.	31.5	975
3	Probing magnetism in 2D van der Waals crystalline insulators via electron tunneling. Science, 2018, 360, 1218-1222.	12.6	668
4	Recent progress in the assembly of nanodevices and van der Waals heterostructures by deterministic placement of 2D materials. Chemical Society Reviews, 2018, 47, 53-68.	38.1	473
5	A MoTe ₂ -based light-emitting diode and photodetector for silicon photonic integrated circuits. Nature Nanotechnology, 2017, 12, 1124-1129.	31.5	344
6	Enhanced superconductivity in atomically thin TaS ₂ . Nature Communications, 2016, 7, 11043.	12.8	285
7	Ligand-field helical luminescence in a 2D ferromagnetic insulator. Nature Physics, 2018, 14, 277-281.	16.7	275
8	Coexistence of superconductivity and magnetism by chemical design. Nature Chemistry, 2010, 2, 1031-1036.	13.6	141
9	Strong enhancement of superconductivity at high pressures within the charge-density-wave states of CrI ₃ . Physical Review B, 2016, 93, .	8.2	105
10	Enhanced superconductivity upon weakening of charge density wave transport in CrI ₃ in the two-dimensional limit. Physical Review B, 2018, 98, .	8.2	105
11	Fast and reliable identification of atomically thin layers of TaSe ₂ crystals. Nano Research, 2013, 6, 191-199.	10.4	62
12	Deep Learning Enabled Fast Optical Identification and Characterization of 2D Materials. Advanced Materials, 2020, 32, e2000953.	21.0	54
13	Chiral charge order in the superconductor 2H-TaS ₂ . New Journal of Physics, 2011, 13, 103020.	2.9	45
14	Quantum Rescaling, Domain Metastability, and Hybrid Domain Walls in 2D CrI ₃ Magnets. Advanced Materials, 2021, 33, e2004138.	21.0	34
15	Confined Growth of Cyanide-Based Magnets in Two Dimensions. Inorganic Chemistry, 2010, 49, 1313-1315.	4.0	33
16	Scanning tunneling measurements of layers of superconducting 2H-TaSe ₂ : Evidence for a zero-bias anomaly in single layers. Physical Review B, 2013, 87, .	3.2	33
17	Intercalation of [M(ox) ₃] ³⁺ (M=Cr, Rh) complexes into Ni(II)-LDH. Applied Clay Science, 2010, 48, 228-234.	5.2	32
18	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. Nano Letters, 2021, 21, 3379-3385.	9.1	31

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19	Hybrid Magnetic/Superconducting Materials Obtained by Insertion of a Single-Molecule Magnet into TaS ₂ Layers. <i>Advanced Materials</i> , 2011, 23, 5021-5026.	21.0	30
20	Synthesis and characterisation of 3,4-dialkoxy-substituted benzo-1,3,2-dithiazolyl radicals. <i>Chemical Communications</i> , 2010, 46, 6114.	4.1	28
21	High-quality-factor tantalum oxide nanomechanical resonators by laser oxidation of TaSe ₂ . <i>Nano Research</i> , 2015, 8, 2842-2849.	10.4	27
22	Intercalation of two-dimensional oxalate-bridged molecule-based magnets into layered double hydroxide hosts. <i>Journal of Materials Chemistry</i> , 2010, 20, 9476.	6.7	26
23	Monolayer Tungsten Disulfide (WS ₂) via Chlorine-Driven Chemical Vapor Transport. <i>Small</i> , 2017, 13, 1701232.	10.0	24
24	Strain Switching in van der Waals Heterostructures Triggered by a Spin-Crossover Metal-Organic Framework. <i>Advanced Materials</i> , 2022, 34, e2110027.	21.0	23
25	Zero-bias conductance peak in detached flakes of superconducting 2H-TaS ₂ probed by scanning tunneling spectroscopy. <i>Physical Review B</i> , 2014, 89, 040407.	3.2	22
26	Coexistence of structural and magnetic phases in van der Waals magnet CrI ₃ . <i>Nature Communications</i> , 2021, 12, 6265.	12.8	22
27	Hybrid Magnetic Superconductors Formed by TaS ₂ Layers and Spin Crossover Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 8451-8460.	4.0	17
28	Illustrating the Processability of Magnetic Layered Double Hydroxides: Layer-by-Layer Assembly of Magnetic Ultrathin Films. <i>Inorganic Chemistry</i> , 2013, 52, 6214-6222.	4.0	17
29	High-energy collective electronic excitations in layered transition-metal dichalcogenides. <i>Physical Review B</i> , 2014, 90, .	3.2	15
30	Local Oxidation Nanolithography on Metallic Transition Metal Dichalcogenides Surfaces. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 250.	2.5	15
31	The Ising on the monolayer. <i>Nature Physics</i> , 2016, 12, 112-113.	16.7	14
32	Nanofabrication of TaS ₂ conducting layers nanopatterned with Ta ₂ O ₅ insulating regions via AFM. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7692.	5.5	8
33	The Use of Polyoxometalates in the Design of Layer-Like Hybrid Salts Containing Cationic Mn ⁴⁺ Single-Molecule Magnets. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 1903-1909.	2.0	7
34	Proposal for a Dual Spin Filter Based on [VO(C ₃ S ₄ O) ₂] ²⁺ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 6417-6421.	3.1	6
35	Structural and magnetic characterization of the tridimensional network [Fe(HCO ₂) ₃] _n ·nHCO ₂ H. <i>New Journal of Chemistry</i> , 2013, 37, 2120.	2.8	5
36	Nanomagnets: Quantum Rescaling, Domain Metastability, and Hybrid Domain Walls in 2D CrI ₃ Magnets (<i>Adv. Mater.</i> 5/2021). <i>Advanced Materials</i> , 2021, 33, 2170036.	21.0	0