

Efren Navarro-Moratalla

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

7,792
citations

279798

23
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361022

35
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36
all docs

36
docs citations

36
times ranked

9069
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | Quantum Rescaling, Domain Metastability, and Hybrid Domain-Walls in 2D CrI ₃ Magnets. <i>Advanced Materials</i> , 2021, 33, e2004138. | 21.0 | 34 |
| 3 | Nanomagnets: Quantum Rescaling, Domain Metastability, and Hybrid Domain-Walls in 2D CrI ₃ Magnets (Adv. Mater. 5/2021). <i>Advanced Materials</i> , 2021, 33, 2170036. | 21.0 | 0 |
| 4 | Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. <i>Nano Letters</i> , 2021, 21, 3379-3385. | 9.1 | 31 |
| 5 | Coexistence of structural and magnetic phases in van der Waals magnet CrI ₃ . <i>Nature Communications</i> , 2021, 12, 6265. | 12.8 | 22 |
| 6 | Deep-Learning-Enabled Fast Optical Identification and Characterization of 2D Materials. <i>Advanced Materials</i> , 2020, 32, e2000953. | 21.0 | 54 |
| 7 | 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 |
| 8 | Electrical control of 2D magnetism in bilayer CrI ₃ . <i>Nature Nanotechnology</i> , 2018, 13, 544-548. | 31.5 | 975 |
| 9 | Probing magnetism in 2D van der Waals crystalline insulators via electron tunneling. <i>Science</i> , 2018, 360, 1218-1222. | 12.6 | 668 |
| 10 | Ligand-field helical luminescence in a 2D ferromagnetic insulator. <i>Nature Physics</i> , 2018, 14, 277-281. | 16.7 | 275 |
| 11 | Recent progress in the assembly of nanodevices and van der Waals heterostructures by deterministic placement of 2D materials. <i>Chemical Society Reviews</i> , 2018, 47, 53-68. | 38.1 | 473 |
| 12 | Enhanced superconductivity upon weakening of charge density wave transport in $HgBa_2CuO_{4-x}$ in the two-dimensional limit. <i>Physical Review B</i> , 2018, 98, . | 31.5 | 344 |
| 13 | Layer-dependent ferromagnetism in a van der Waals crystal down to the monolayer limit. <i>Nature</i> , 2017, 546, 270-273. | 27.8 | 3,824 |
| 14 | A MoTe ₂ -based light-emitting diode and photodetector for silicon photonic integrated circuits. <i>Nature Nanotechnology</i> , 2017, 12, 1124-1129. | 31.5 | 344 |
| 15 | Monolayer Tungsten Disulfide (WS ₂) via Chlorine-Driven Chemical Vapor Transport. <i>Small</i> , 2017, 13, 1701232. | 10.0 | 24 |
| 16 | Local Oxidation Nanolithography on Metallic Transition Metal Dichalcogenides Surfaces. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 250. | 2.5 | 15 |
| 17 | Strong enhancement of superconductivity at high pressures within the charge-density-wave states of $HgBa_2CuO_{4-x}$. <i>Physical Review B</i> , 2016, 93, . | 12.8 | 285 |
| 18 | Enhanced superconductivity in atomically thin TaS ₂ . <i>Nature Communications</i> , 2016, 7, 11043. | 12.8 | 285 |

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|----|--|------|-----------|
| 19 | The Ising on the monolayer. Nature Physics, 2016, 12, 112-113. | 16.7 | 14 |
| 20 | High-quality-factor tantalum oxide nanomechanical resonators by laser oxidation of TaSe ₂ . Nano Research, 2015, 8, 2842-2849. | 10.4 | 27 |
| 21 | High-energy collective electronic excitations in layered transition-metal dichalcogenides. Physical Review B, 2014, 90, . | 3.2 | 15 |
| 22 | Zero-bias conductance peak in detached flakes of superconducting 2H-TaS_2 probed by scanning tunneling spectroscopy. Physical Review B, 2014, 89, . | 3.2 | 22 |
| 23 | Hybrid Magnetic Superconductors Formed by TaS ₂ Layers and Spin Crossover Complexes. Inorganic Chemistry, 2013, 52, 8451-8460. | 4.0 | 17 |
| 24 | Nanofabrication of TaS ₂ conducting layers nanopatterned with Ta ₂ O ₅ insulating regions via AFM. Journal of Materials Chemistry C, 2013, 1, 7692. | 5.5 | 8 |
| 25 | Scanning tunneling measurements of layers of superconducting 2H-TaS_2 : Evidence for a zero-bias anomaly in single layers. Physical Review B, 2013, 87, . | 3.2 | 33 |
| 26 | Structural and magnetic characterization of the tridimensional network [Fe(HCO ₂) ₃] _n ·nH ₂ O. New Journal of Chemistry, 2013, 37, 2120. | 2.8 | 5 |
| 27 | Fast and reliable identification of atomically thin layers of TaSe ₂ crystals. Nano Research, 2013, 6, 191-199. | 10.4 | 62 |
| 28 | Illustrating the Processability of Magnetic Layered Double Hydroxides: Layer-by-Layer Assembly of Magnetic Ultrathin Films. Inorganic Chemistry, 2013, 52, 6214-6222. | 4.0 | 17 |
| 29 | The Use of Polyoxometalates in the Design of Layer-Like Hybrid Salts Containing Cationic Mn ⁴⁺ Single-Molecule Magnets. European Journal of Inorganic Chemistry, 2013, 2013, 1903-1909. | 2.0 | 7 |
| 30 | Hybrid Magnetic/Superconducting Materials Obtained by Insertion of a Single-Molecule Magnet into TaS ₂ Layers. Advanced Materials, 2011, 23, 5021-5026. | 21.0 | 30 |
| 31 | Chiral charge order in the superconductor 2H-TaS ₂ . New Journal of Physics, 2011, 13, 103020. | 2.9 | 45 |
| 32 | Coexistence of superconductivity and magnetism by chemical design. Nature Chemistry, 2010, 2, 1031-1036. | 13.6 | 141 |
| 33 | Confined Growth of Cyanide-Based Magnets in Two Dimensions. Inorganic Chemistry, 2010, 49, 1313-1315. | 4.0 | 33 |
| 34 | Intercalation of [M(ox) ₃] ³⁻ (M=Cr, Rh) complexes into NiIIFeIII-LDH. Applied Clay Science, 2010, 48, 228-234. | 5.2 | 32 |
| 35 | Intercalation of two-dimensional oxalate-bridged molecule-based magnets into layered double hydroxide hosts. Journal of Materials Chemistry, 2010, 20, 9476. | 6.7 | 26 |
| 36 | Synthesis and characterisation of 3,4-dialkoxy-substituted benzo-1,3,2-dithiazolyl radicals. Chemical Communications, 2010, 46, 6114. | 4.1 | 28 |