

List of Publications by Citations

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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.

44 papers	1,030 citations	16 h-index	31 g-index
46 ext. papers	1,466 ext. citations	6.2 avg, IF	4.72 L-index

#	Paper	IF	Citations
44	Lead-Free Halide Rb CuBr as Sensitive X-Ray Scintillator. <i>Advanced Materials</i> , 2019 , 31, e1904711	24	194
43	Heteroepitaxial passivation of CsAgBiBr wafers with suppressed ionic migration for X-ray imaging. <i>Nature Communications</i> , 2019 , 10, 1989	17.4	134
42	All-Inorganic Copper Halide as a Stable and Self-Absorption-Free X-ray Scintillator. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1873-1880	6.4	69
41	Unveiling the Structural Descriptor of A3B2X9 Perovskite Derivatives toward X-Ray Detectors with Low Detection Limit and High Stability. <i>Advanced Functional Materials</i> , 2020 , 30, 1910648	15.6	67
40	GGA-1/2 self-energy correction for accurate band structure calculations: the case of resistive switching oxides. <i>Journal of Physics Communications</i> , 2018 , 2, 105005	1.2	44
39	Lead halide perovskite for efficient optoacoustic conversion and application toward high-resolution ultrasound imaging. <i>Nature Communications</i> , 2021 , 12, 3348	17.4	42
38	Ideal strength and elastic instability in single-layer 8-Pmmn borophene. <i>RSC Advances</i> , 2017 , 7, 8654-8669	9.7	40
37	Stability, electronic and thermodynamic properties of aluminene from first-principles calculations. <i>Applied Surface Science</i> , 2017 , 409, 85-90	6.7	40
36	Improved LDA-1/2 method for band structure calculations in covalent semiconductors. <i>Computational Materials Science</i> , 2018 , 153, 493-505	3.2	39
35	One-Dimensional All-Inorganic K2CuBr3 with Violet Emission as Efficient X-ray Scintillators. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2242-2249	4	30
34	KTlO: a metal shrouded 2D semiconductor with high carrier mobility and tunable magnetism. <i>Nanoscale</i> , 2019 , 11, 1131-1139	7.7	25
33	TlP5: an unexplored direct band gap 2D semiconductor with ultra-high carrier mobility. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 639-644	7.1	23
32	Single-layer planar penta-X2N4 (X = Ni, Pd and Pt) as direct-bandgap semiconductors from first principle calculations. <i>Applied Surface Science</i> , 2019 , 469, 456-462	6.7	23
31	Controlled Memory and Threshold Switching Behaviors in a Heterogeneous Memristor for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000309	6.4	21
30	Design lateral heterostructure of monolayer ZrS2 and HfS2 from first principles calculations. <i>Applied Surface Science</i> , 2018 , 436, 919-926	6.7	21
29	Nb2SiTe4 and Nb2GeTe4: Unexplored 2D Ternary Layered Tellurides with High Stability, Narrow Band Gap and High Electron Mobility. <i>Journal of Electronic Materials</i> , 2020 , 49, 959-968	1.9	16
28	PtSe Monolayer: A Highly Efficient Electrocatalyst toward Hydrogen and Oxygen Electrode Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13896-13903	9.5	15

27	Surface regulated arsenenes as Dirac materials: From density functional calculations. <i>Applied Surface Science</i> , 2017 , 394, 625-629	6.7	15
26	Substrate-modulated ferromagnetism of two-dimensional Fe ₃ GeTe ₂ . <i>Applied Physics Letters</i> , 2020 , 116, 042402	3.4	14
25	Planar penta-transition metal phosphide and arsenide as narrow-gap semiconductors with ultrahigh carrier mobility. <i>Journal of Materials Science</i> , 2019 , 54, 7035-7047	4.3	13
24	Two-dimensional silicon chalcogenides with high carrier mobility for photocatalytic water splitting. <i>Journal of Materials Science</i> , 2019 , 54, 11485-11496	4.3	13
23	Two-dimensional perovskites as sensitive strain sensors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3814-3820	3.2	13
22	Gallium Thiophosphate: An Emerging Bidirectional Auxetic Two-Dimensional Crystal with Wide Direct Band Gap. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4455-4462	6.4	13
21	Lead-free violet-emitting K ₂ CuCl ₃ single crystal with high photoluminescence quantum yield. <i>Organic Electronics</i> , 2020 , 86, 105903	3.5	13
20	Prediction of new group IV-V-VI monolayer semiconductors based on first principle calculation. <i>Computational Materials Science</i> , 2017 , 135, 160-164	3.2	12
19	A new family of two-dimensional ferroelastic semiconductors with negative Poisson's ratios. <i>Nanoscale</i> , 2020 , 12, 14150-14159	7.7	11
18	Theoretical investigation of the Ag filament morphology in conductive bridge random access memories. <i>Journal of Applied Physics</i> , 2018 , 124, 152125	2.5	11
17	Synergic Effect in a New Electrocatalyst Ni ₂ SbTe ₂ for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3671-3680	3.8	7
16	Promising photocatalysts with high carrier mobility for water splitting in monolayer Ge ₂ P ₄ S ₂ and Ge ₂ As ₄ S ₂ . <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21536-21545	6.7	7
15	Structural disorder in the high-temperature cubic phase of GeTe. <i>RSC Advances</i> , 2018 , 8, 17435-17442	3.7	6
14	Ab Initio Simulation of Ta ₂ O ₅ : A High Symmetry Ground State Phase with Application to Interface Calculation. <i>Annalen Der Physik</i> , 2019 , 531, 1800524	2.6	5
13	Tunable Rashba spin splitting in two-dimensional graphene/As-I heterostructures. <i>Applied Surface Science</i> , 2018 , 427, 10-14	6.7	5
12	Nb _{1-x} O ₂ based Universal Selector with Ultra-high Endurance (>10 ¹²), high speed (10ns) and Excellent V _{th} Stability 2019 ,		5
11	Multilevel switching in Mg-doped HfO _x memristor through the mutual-ion effect. <i>Applied Physics Letters</i> , 2021 , 119, 153505	3.4	5
10	Homo-layer hafnia-based memristor with large analog switching window. <i>Applied Physics Letters</i> , 2021 , 118, 043502	3.4	4

9	Oxygen migration around the filament region in HfO _x memristors. <i>AIP Advances</i> , 2019 , 9, 105007	1.5	3
8	Tailoring the electron and hole dimensionality to achieve efficient and stable metal halide perovskite scintillators. <i>Nanophotonics</i> , 2021 , 10, 2249-2256	6.3	3
7	BaAs ₃ : a narrow gap 2D semiconductor with vacancy-induced semiconductor-metal transition from first principles. <i>Journal of Materials Science</i> , 2019 , 54, 12676-12687	4.3	2
6	12.7 MA/cm ² On-Current Density and High Uniformity Realized in AgGeSe/Al ₂ O ₃ Selectors. <i>IEEE Electron Device Letters</i> , 2021 , 42, 613-616	4.4	2
5	10 MA cm ⁻² current density in nanoscale conductive bridge threshold switching selector via densely localized cation sources. <i>Journal of Materials Chemistry C</i> ,	7.1	2
4	Prediction of two-dimensional M ₂ As (M = Mn, Fe) with high Curie temperature and large perpendicular magnetic anisotropy. <i>Computational Materials Science</i> , 2021 , 200, 110838	3.2	1
3	HfO _x /AlO _y Superlattice-Like Memristive Synapse. <i>Advanced Science</i> , 2201446	13.6	1
2	Designing stable 2D materials solely from VIA elements. <i>Applied Physics Letters</i> , 2021 , 119, 223101	3.4	0
1	Modulation of oxygen transport by incorporating Sb ₂ Te ₃ layer in HfO ₂ -based memristor. <i>Applied Physics Letters</i> , 2021 , 119, 193503	3.4	0