Jun-Hui Yuan

List of Publications by Year in Descending Order

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

#	Paper	IF	Citations
44	Designing stable 2D materials solely from VIA elements. <i>Applied Physics Letters</i> , 2021 , 119, 223101	3.4	O
43	Modulation of oxygen transport by incorporating Sb2Te3 layer in HfO2-based memristor. <i>Applied Physics Letters</i> , 2021 , 119, 193503	3.4	0
42	Multilevel switching in Mg-doped HfOx memristor through the mutual-ion effect. <i>Applied Physics Letters</i> , 2021 , 119, 153505	3.4	5
41	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
40	12.7 MA/cm2 On-Current Density and High Uniformity Realized in AgGeSe/Al2O3 Selectors. <i>IEEE Electron Device Letters</i> , 2021 , 42, 613-616	4.4	2
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
3 8	Prediction of two-dimensional M2As (MI=IMn, Fe) with high Curie temperature and large perpendicular magnetic anisotropy. <i>Computational Materials Science</i> , 2021 , 200, 110838	3.2	1
37	Homo-layer hafnia-based memristor with large analog switching window. <i>Applied Physics Letters</i> , 2021 , 118, 043502	3.4	4
36	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
35	A new family of two-dimensional ferroelastic semiconductors with negative Poisson's ratios. <i>Nanoscale</i> , 2020 , 12, 14150-14159	7.7	11
34	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
33	PtSe Monolayer: A Highly Efficient Electrocatalyst toward Hydrogen and Oxygen Electrode Reactions. <i>ACS Applied Materials & amp; Interfaces</i> , 2020 , 12, 13896-13903	9.5	15
32	Synergic Effect in a New Electrocatalyst Ni2SbTe2 for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3671-3680	3.8	7
31	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
3 0	Two-dimensional perovskites as sensitive strain sensors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3814	- 3 820	13
29	Substrate-modulated ferromagnetism of two-dimensional Fe3GeTe2. <i>Applied Physics Letters</i> , 2020 , 116, 042402	3.4	14
28	Controlled Memory and Threshold Switching Behaviors in a Heterogeneous Memristor for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000309	6.4	21

(2018-2020)

27	Lead-free violet-emitting K2CuCl3 single crystal with high photoluminescence quantum yield. <i>Organic Electronics</i> , 2020 , 86, 105903	3.5	13
26	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
25	Oxygen migration around the filament region in HfOx memristors. AIP Advances, 2019, 9, 105007	1.5	3
24	KTlO: a metal shrouded 2D semiconductor with high carrier mobility and tunable magnetism. <i>Nanoscale</i> , 2019 , 11, 1131-1139	7.7	25
23	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
22	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
21	Two-dimensional silicon chalcogenides with high carrier mobility for photocatalytic water splitting. Journal of Materials Science, 2019 , 54, 11485-11496	4.3	13
20	Heteroepitaxial passivation of CsAgBiBr wafers with suppressed ionic migration for X-ray imaging. <i>Nature Communications</i> , 2019 , 10, 1989	17.4	134
19	Ab Initio Simulation of Ta2O5: A High Symmetry Ground State Phase with Application to Interface Calculation. <i>Annalen Der Physik</i> , 2019 , 531, 1800524	2.6	5
18	Nb1-xO2 based Universal Selector with Ultra-high Endurance (>1012), high speed (10ns) and Excellent Vth Stability 2019 ,		5
18		6.7	5 7
	Excellent Vth Stability 2019, Promising photocatalysts with high carrier mobility for water splitting in monolayer Ge2P4S2 and	6.7	
17	Excellent Vth Stability 2019, Promising photocatalysts with high carrier mobility for water splitting in monolayer Ge2P4S2 and Ge2As4S2. International Journal of Hydrogen Energy, 2019, 44, 21536-21545 Gallium Thiophosphate: An Emerging Bidirectional Auxetic Two-Dimensional Crystal with Wide	,	7
17 16	Promising photocatalysts with high carrier mobility for water splitting in monolayer Ge2P4S2 and Ge2As4S2. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21536-21545 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 BaAs3: a narrow gap 2D semiconductor with vacancy-induced semiconductor thetal transition from	6.4	7
17 16 15	Promising photocatalysts with high carrier mobility for water splitting in monolayer Ge2P4S2 and Ge2As4S2. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21536-21545 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 BaAs3: a narrow gap 2D semiconductor with vacancy-induced semiconductor thetal transition from first principles. <i>Journal of Materials Science</i> , 2019 , 54, 12676-12687	6.4	7 13 2
17 16 15	Promising photocatalysts with high carrier mobility for water splitting in monolayer Ge2P4S2 and Ge2As4S2. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21536-21545 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 BaAs3: a narrow gap 2D semiconductor with vacancy-induced semiconductorfinetal transition from first principles. <i>Journal of Materials Science</i> , 2019 , 54, 12676-12687 Lead-Free Halide Rb CuBr as Sensitive X-Ray Scintillator. <i>Advanced Materials</i> , 2019 , 31, e1904711 Single-layer planar penta-X2N4 (X = Ni, Pd and Pt) as direct-bandgap semiconductors from first	6.4 4·3	7 13 2 194
17 16 15 14	Promising photocatalysts with high carrier mobility for water splitting in monolayer Ge2P4S2 and Ge2As4S2. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21536-21545 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 BaAs3: a narrow gap 2D semiconductor with vacancy-induced semiconductor thetal transition from first principles. <i>Journal of Materials Science</i> , 2019 , 54, 12676-12687 Lead-Free Halide Rb CuBr as Sensitive X-Ray Scintillator. <i>Advanced Materials</i> , 2019 , 31, e1904711 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 Tunable Rashba spin splitting in two-dimensional graphene/As-I heterostructures. <i>Applied Surface</i>	6.4 4·3 24 6.7	7 13 2 194 23
17 16 15 14 13	Excellent Vth Stability 2019, Promising photocatalysts with high carrier mobility for water splitting in monolayer Ge2P4S2 and Ge2As4S2. International Journal of Hydrogen Energy, 2019, 44, 21536-21545 Gallium Thiophosphate: An Emerging Bidirectional Auxetic Two-Dimensional Crystal with Wide Direct Band Gap. Journal of Physical Chemistry Letters, 2019, 10, 4455-4462 BaAs3: a narrow gap 2D semiconductor with vacancy-induced semiconductorfinetal transition from first principles. Journal of Materials Science, 2019, 54, 12676-12687 Lead-Free Halide Rb CuBr as Sensitive X-Ray Scintillator. Advanced Materials, 2019, 31, e1904711 Single-layer planar penta-X2N4 (X = Ni, Pd and Pt) as direct-bandgap semiconductors from first principle calculations. Applied Surface Science, 2019, 469, 456-462 Tunable Rashba spin splitting in two-dimensional graphene/As-I heterostructures. Applied Surface Science, 2018, 427, 10-14 Improved LDA-1/2 method for band structure calculations in covalent semiconductors.	6.4 4·3 24 6.7 6.7	7 13 2 194 23

9	Design lateral heterostructure of monolayer ZrS2 and HfS2 from first principles calculations. <i>Applied Surface Science</i> , 2018 , 436, 919-926	6.7	21
8	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
7	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
6	Ideal strength and elastic instability in single-layer 8-Pmmn borophene. RSC Advances, 2017, 7, 8654-86	69 .7	40
5	Stability, electronic and thermodynamic properties of aluminene from first-principles calculations. <i>Applied Surface Science</i> , 2017 , 409, 85-90	6.7	40
4	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
3	Surface regulated arsenenes as Dirac materials: From density functional calculations. <i>Applied Surface Science</i> , 2017 , 394, 625-629	6.7	15
2	10 MA cm [®] current density in nanoscale conductive bridge threshold switching selector via densely localized cation sources. <i>Journal of Materials Chemistry C</i> ,	7.1	2
1	HfO x /AlO y Superlattice-Like Memristive Synapse. <i>Advanced Science</i> ,2201446	13.6	1