

# Hosub Jin

## List of Publications by Year in descending order

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36  
papers

3,447  
citations

257450

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361022

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g-index

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39  
docs citations

39  
times ranked

4727  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Ordering, Anomalous Lifshitz Transition, and Topological Grain Boundaries in Two-Dimensional Biphenylene Network. Nano Letters, 2022, 22, 3112-3117.	9.1	11
2	Defect-gradient-induced Rashba effect in van der Waals PtSe <sub>2</sub> layers. Nature Communications, 2022, 13, 2759.	12.8	13
3	Vertical transverse transport induced by hidden in-plane Berry curvature in two dimensions. Physical Review B, 2021, 104, .	3.2	1
4	Observation of spin-polarized Anderson state around charge neutral point in graphene with Fe-clusters. Scientific Reports, 2020, 10, 4784.	3.3	2
5	Emergence of the giant out-of-plane Rashba effect and tunable nanoscale persistent spin helix in ferroelectric SnTe thin films. Applied Physics Letters, 2020, 116, .	3.3	38
6	Prediction of ferroelectricity-driven Berry curvature enabling charge- and spin-controllable photocurrent in tin telluride monolayers. Nature Communications, 2019, 10, 3965.	12.8	47
7	Transition metal oxide	3.2	1
8	Gate-tunable giant nonreciprocal charge transport in noncentrosymmetric oxide interfaces. Nature Communications, 2019, 10, 4510.	12.8	44
9	Two-dimensional Peierls instability via zone-boundary Dirac line nodes in layered perovskite oxides. Physical Review B, 2019, 99, .	3.2	7
10	Phonon-driven spin-Floquet magneto-valleytronics in MoS <sub>2</sub> . Nature Communications, 2018, 9, 638.	12.8	86
11	Graphene analogue in (111)-oriented BaBiO <sub>3</sub> bilayer heterostructures for topological electronics. Scientific Reports, 2018, 8, 555.	3.3	6
12	Search and design of nonmagnetic centrosymmetric layered crystals with large local spin polarization. Physical Review B, 2015, 91, .	3.2	51
13	Antagonism between Spin-Orbit Coupling and Steric Effects Causes Anomalous Band Gap Evolution in the Perovskite Photovoltaic Materials CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> PbI <sub>3</sub> . Journal of Physical Chemistry Letters, 2015, 6, 3503-3509.	4.6	202
14	Spin-orbital entangled molecular jef states in lacunar spinel compounds. Nature Communications, 2014, 5, 3988.	12.8	52
15	Switchable $S = 1/2$ and $J = 1/2$ Rashba bands in ferroelectric halide perovskites. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6900-6904.	7.1	252
16	LiPbSb <sub>3</sub> S <sub>6</sub> : A Semiconducting Sulfosalt with Very Low Thermal Conductivity. Inorganic Chemistry, 2014, 53, 673-675.	4.0	19
17	Cs <sub>2</sub> M <sup>II</sup> M <sup>IV</sup> <sub>3</sub> Q <sub>8</sub> (Q = S, Se, Te): An Extensive Family of Layered Semiconductors with Diverse Band Gaps. Chemistry of Materials, 2013, 25, 3344-3356.	6.7	75
18	Photoconductivity in Tl <sub>6</sub> Si <sub>4</sub> : A Novel Semiconductor for Hard Radiation Detection. Chemistry of Materials, 2013, 25, 2868-2877.	6.7	45

#	ARTICLE	IF	CITATIONS
19	CsCdInQ <sub>3</sub> (Q = Se, Te): New Photoconductive Compounds As Potential Materials for Hard Radiation Detection. Chemistry of Materials, 2013, 25, 2089-2099.	6.7	50
20	Strain-induced topological insulator phase and effective magnetic interactions in Li <sub>2</sub> IrO <sub>3</sub> . Physical Review B, 2013, 87, .	3.2	35
21	Topological Oxide Insulator in Cubic Perovskite Structure. Scientific Reports, 2013, 3, 1651.	3.3	43
22	Characterization of thallium-based ternary semiconductor compounds for radiation detection. , 2012, , .		3
23	CsHgInS <sub>3</sub> : a New Quaternary Semiconductor for $\hat{\Gamma}^3$ -ray Detection. Chemistry of Materials, 2012, 24, 4434-4441.	6.7	56
24	Topological insulator phase in halide perovskite structures. Physical Review B, 2012, 86, .	3.2	104
25	Mercury and antimony chalcogenide semiconductors as new candidates for radiation detection applications at room temperature. Proceedings of SPIE, 2012, , .	0.8	8
26	Formation of native defects in the $\hat{\Gamma}^3$ -ray detector material Cs <sub>2</sub> Hg <sub>6</sub> S <sub>7</sub> . Applied Physics Letters, 2012, 101, .	3.3	11
27	Topological Quantum Phase Transition in $\langle \mathbf{d} \rangle$ Transition Metal Oxide Na <sub>2</sub> IrO <sub>2</sub> . Physical Review Letters, 2012, 108, 106401.	7.8	87
28	Tl <sub>2</sub> Hg <sub>3</sub> Q <sub>4</sub> (Q = S, Se, and Te): High-Density, Wide-Band-Gap Semiconductors. Chemistry of Materials, 2011, 23, 4375-4383.	6.7	50
29	Dimensionally reduced heavy atom semiconductors as candidate materials for $\hat{\Gamma}^3$ -ray detection: the case of Cs <sub>2</sub> Hg <sub>6</sub> S <sub>7</sub> . Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	3
30	Thallium Chalcogenide-Based Wide-Band-Gap Semiconductors: TlGaSe <sub>2</sub> for Radiation Detectors. Chemistry of Materials, 2011, 23, 3120-3128.	6.7	87
31	Thallium Chalcogenides for X-ray and $\hat{\Gamma}^3$ -ray Detection. Journal of the American Chemical Society, 2011, 133, 10030-10033.	13.7	105
32	Dimensional Reduction: A Design Tool for New Radiation Detection Materials. Advanced Materials, 2011, 23, 4163-4167.	21.0	185
33	Candidates for topological insulators: Pb-based chalcogenide series. Physical Review B, 2011, 83, .	3.2	56
34	Anisotropic exchange interactions of spin-orbit-integrated states in Mott Insulator $\langle \mathbf{J} \rangle_{\text{eff}}$	3.2	149
35	Novel $\langle \mathbf{J} \rangle_{\text{eff}}$	3.2	117
36	State Induced by Relativistic Spin-Orbit Coupling in $\langle \mathbf{J} \rangle_{\text{eff}}$	7.8	1,332