

Brenden Ortiz

List of Publications by Year in descending order

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59
papers

4,863
citations

117625

34
h-index

155660

55
g-index

59
all docs

59
docs citations

59
times ranked

2438
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of superconductivity and charge order in pressurized RbV_3Sb_5 . Chinese Physics B, 2022, 31, 017404.	1.4	13
2	Twofold van Hove singularity and origin of charge order in topological kagome superconductor CsV_3Sb_5 . Nature Physics, 2022, 18, 301-308.	16.7	176
3	Rotation symmetry breaking in the normal state of a kagome superconductor KV_3Sb_5 . Nature Physics, 2022, 18, 265-270.	16.7	102
4	Surface-induced orbital-selective band reconstruction in kagome superconductor CsV_3Sb_5 . Chinese Physics B, 2022, 31, 057403.	1.4	3
5	Optical detection of the density-wave instability in the kagome metal KV_3Sb_5 . Npj Quantum Materials, 2022, 7, .	5.2	57
6	Role of Sb in the superconducting kagome metal CsV_3Sb_5 revealed by its anisotropic compression. SciPost Physics, 2022, 12, .	4.9	29
7	Charge density wave order in the kagome metal $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \text{A} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \langle \text{mml:mi} \text{V} \rangle \langle \text{mml:mn} \text{3} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{Sb} \rangle \langle \text{mml:mn} \text{5} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$		

#	ARTICLE	IF	CITATIONS
19	Nodeless superconductivity in the kagome metal CsV ₃ Sb ₅ . Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	100
20	Low-energy optical properties of the nonmagnetic kagome metal $A_2V_3Sb_5$. Physical Review B, 2021, 104, .	3.2	47
21	Cascade of correlated electron states in the kagome superconductor CsV ₃ Sb ₅ . Nature, 2021, 599, 216-221.	27.8	251
22	Understanding Cu incorporation in the $A_2V_3Sb_5$ structure using resonant x-ray diffraction. Physical Review Materials, 2021, 5, .	2.4	80
23	Geometry of the charge density wave in the kagome metal $A_3V_3Sb_5$. Physical Review B, 2021, 104, .	3.2	47
24	Coherent phonon spectroscopy and interlayer modulation of charge density wave order in the kagome metal $A_2V_3Sb_5$. Physical Review Materials, 2021, 5, .	2.4	80
25	Fermi Surface Mapping and the Nature of Charge-Density-Wave Order in the Kagome Superconductor $A_2V_3Sb_5$. Physical Review Letters, 2021, 126, 177001.	8.9	122
26	Strain-sensitive superconductivity in the kagome metals $A_2V_3Sb_5$ and $A_3V_3Sb_5$. Physical Review Materials, 2021, 5, .	3.2	24
27	Strain-sensitive superconductivity in the kagome metals $A_2V_3Sb_5$ and $A_3V_3Sb_5$. Physical Review Materials, 2021, 5, .	3.2	24



#	ARTICLE	IF	CITATIONS
37	New Kagome prototype materials: discovery of KV_3 , and CsV_3 . <i>Physical Review Materials</i> , 2018, 3.	2.4	398
38	High Seebeck Coefficient and Unusually Low Thermal Conductivity Near Ambient Temperatures in Layered Compound $\text{Yb}_2\text{EuCdSb}_2$. <i>Chemistry of Materials</i> , 2018, 30, 484-493.	6.7	45
39	Ultralow Thermal Conductivity in Diamond-Like Semiconductors: Selective Scattering of Phonons from Antisite Defects. <i>Chemistry of Materials</i> , 2018, 30, 3395-3409.	6.7	28
40	Experimental and computational phase boundary mapping of $\text{Co}_4\text{Sn}_6\text{Te}_6$. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24175-24185.	10.3	26
41	Exciton photoluminescence and benign defect complex formation in zinc tin nitride. <i>Materials Horizons</i> , 2018, 5, 823-830.	12.2	41
42	A practical field guide to thermoelectrics: Fundamentals, synthesis, and characterization. <i>Applied Physics Reviews</i> , 2018, 5, 021303.	11.3	223
43	Investigation of n-type doping strategies for Mg_3Sb_2 . <i>Journal of Materials Chemistry A</i> , 2018, 6, 13806-13815.	10.3	80
44	Capturing Anharmonicity in a Lattice Thermal Conductivity Model for High-Throughput Predictions. <i>Chemistry of Materials</i> , 2017, 29, 2494-2501.	6.7	88
45	Potential for high thermoelectric performance in n-type Zintl compounds: a case study of Ba doped KAlSb_4 . <i>Journal of Materials Chemistry A</i> , 2017, 5, 4036-4046.	10.3	55
46	Thermoelectric Performance and Defect Chemistry in n-Type Zintl KGaSb_4 . <i>Chemistry of Materials</i> , 2017, 29, 4523-4534.	6.7	59
47	Solubility limits in quaternary SnTe-based alloys. <i>RSC Advances</i> , 2017, 7, 24747-24753.	3.6	14
48	Large Area Atomically Flat Surfaces via Exfoliation of Bulk Bi_2Se_3 Single Crystals. <i>Chemistry of Materials</i> , 2017, 29, 8472-8477.	6.7	8
49	Synthesis, Structure, and Thermoelectric Properties of Zn_3Sb_2 and Comparison to $\text{Zn}_{13}\text{Sb}_{10}$. <i>Chemistry of Materials</i> , 2017, 29, 5249-5258.	6.7	24
50	Single crystalline substrates for III-V growth via exfoliation of bulk single crystals. , 2017, , .		1
51	Energy conversion properties of ZnSiP_2 , a lattice-matched material for silicon-based tandem photovoltaics. , 2016, , .		2
52	Thermoelectric properties of bromine filled CoSb_3 skutterudite. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8444-8450.	10.3	36
53	TE Design Lab: A virtual laboratory for thermoelectric material design. <i>Computational Materials Science</i> , 2016, 112, 368-376.	3.0	98
54	Solar energy conversion properties and defect physics of ZnSiP_2 . <i>Energy and Environmental Science</i> , 2016, 9, 1031-1041.	30.8	49

#	ARTICLE	IF	CITATIONS
55	Single crystal growth and phase stability of photovoltaic grade ZnSiP ₂ by flux technique. , 2015, , .		5
56	Development of ZnSiP ₂ for Si-Based Tandem Solar Cells. IEEE Journal of Photovoltaics, 2015, 5, 17-21.	2.5	19
57	Effect of extended strain fields on point defect phonon scattering in thermoelectric materials. Physical Chemistry Chemical Physics, 2015, 17, 19410-19423.	2.8	55
58	Material descriptors for predicting thermoelectric performance. Energy and Environmental Science, 2015, 8, 983-994.	30.8	241
59	Controlling thermoelectric transport via native defects in the diamond-like semiconductors Cu ₂ HgGeTe ₄ and Hg ₂ GeTe ₄ . Journal of Materials Chemistry A, 0, , .	10.3	4