

Hidetomo Usui

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,826
citations

361413

20
h-index

254184

43
g-index

48
all docs

48
docs citations

48
times ranked

1933
citing authors

#	ARTICLE	IF	CITATIONS
1	Conserved axis-dependent conduction polarity in NaSnAs polycrystalline bulk sample for transverse thermoelectric application. <i>Materials Today Communications</i> , 2022, 31, 103558.	1.9	4
2	The crystal structure and electrical/thermal transport properties of $\text{Li}_{1-x}\text{Sn}_{2+x}\text{P}_2$ and its performance as a Li-ion battery anode material. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7034-7041.	10.3	7
3	Possible pairing mechanism switching driven by structural symmetry breaking in BiS ₂ -based layered superconductors. <i>Scientific Reports</i> , 2021, 11, 230.	3.3	9
4	Thermoelectric Properties of the As/P-Based Zintl Compounds EuIn_2As_2 ($x=0$) and SrSn_2As_2 . <i>ACS Applied Energy Materials</i> , 2021, 4, 5155-5164.	5.1	16
5	A comparative study of thermoelectric $\text{Cu}_2\text{TrTi}_3\text{S}_8$ (Tr = Co and Sc) thiospinels: Enhanced Seebeck coefficient via electronic structure modification. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159548.	5.5	1
6	Superconductivity in In-doped AgSnBiTe_3 with possible band inversion. <i>Scientific Reports</i> , 2021, 11, 22885.	3.3	4
7	Bipolar doping and thermoelectric properties of Zintl arsenide $\text{Eu}_5\text{In}_2\text{As}_6$. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26362-26370.	10.3	6
8	Model Construction and a Possibility of Cupratelike Pairing in a New Nickelate Superconductor		

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19	Hidden robust presence of a hole Fermi surface in a heavily electron-doped iron-based superconductor LaFe ₂ As ₂ . Physical Review Research, 2019, 1, .	3.6	9
20	Retreat from Stress: Rattling in a Planar Coordination. Advanced Materials, 2018, 30, e1706230.	21.0	57
21	Enhanced power factor and reduced Lorenz number in the Wiedemann-Franz law due to pudding mold type band structures. Journal of Applied Physics, 2017, 121, .	2.5	40
22	Intrinsic Phase Diagram of Superconductivity in the BiCh ₂ -Based System Without In-Plane Disorder. Journal of the Physical Society of Japan, 2017, 86, 074701.	1.6	35
23	Charge and quadrupole fluctuations and gap anisotropy in BiS ₂ -based superconductors. Physical Review B, 2017, 96, .	3.2	34
24	High power factor in thiospinels Cu ₂ TrTi ₃ S ₈ (Tr= Mn, Fe, Co, Ni) arising from TiS ₆ octahedron network. Applied Physics Letters, 2016, 109, .	3.3	19
25	Observation of a Hidden Hole-Like Band Approaching the Fermi Level in K-Doped Iron Selenide Superconductor. Journal of the Physical Society of Japan, 2016, 85, 073704.	1.6	12
26	Theoretical study of correlation between spin fluctuations and T _c in isoalent-doped 1111 iron-based superconductors. Physical Review B, 2015, 91, .	3.2	7
27	Theoretical aspects of the study on the new bismuth chalcogenide based superconductors. Novel Superconducting Materials, 2015, 1, .	0.8	26
28	Origin of the non-monotonic variance of T _c in the 1111 iron based superconductors with isoalent doping. Scientific Reports, 2015, 5, 11399.	3.3	14
29	Minimal Electronic Model for a Layered Nitride Halide Superconductor $\hat{\Gamma}^2$ -ZrNCl. Journal of the Physical Society of Japan, 2015, 84, 124706.	1.6	3
30	Proximity to Fermi-surface topological change in superconducting LaO _{1-x} F _x Bi ₂ S ₂ . Physical Review B, 2014, 90, .	3.2	34
31	Pudding-Mold-Type Band as an Origin of the Large Seebeck Coefficient Coexisting with Metallic Conductivity in Carrier-Doped FeAs ₂ and PtSe ₂ . Journal of Electronic Materials, 2014, 43, 1656-1661.	2.2	11
32	Soft X-ray Photoemission Study of New BiS ₂ -Layered Superconductor LaO _{1-x} F _x Bi ₂ S ₂ . Journal of the Physical Society of Japan, 2014, 83, 033703.	1.6	27
33	Theoretical Expectation of Large Seebeck Effect in PtAs ₂ and PtP ₂ . Journal of the Physical Society of Japan, 2014, 83, 023706.	1.6	10
34	Model of the Electronic Structure of Electron-Doped Iron-Based Superconductors: Evidence for Enhanced Spin Fluctuations by Diagonal Electron Hopping. Physical Review Letters, 2014, 113, 027002.	7.8	43
35	Orbital mixture effect on the Fermi-surface in the cuprate superconductors: Bilayer vs. single layer. Physical Review B, 2014, 89, .	3.3	33
36	Understanding the reentrant superconducting phase diagram of the iron pnictide Ca ₄ Al ₂ O ₆ Fe ₂ (As _{1-x} Px) ₂ : First-principles calculations. Physical Review B, 2013, 87, .	3.2	5

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37	Large Seebeck effect in electron-doped FeAs $\langle \mathbb{1} \rangle$ driven by a quasi-one-dimensional pudding-mold-type band. <i>Physical Review B</i> , 2013, 88, .	3.2	40
38	Robust Spin Fluctuations and $\langle \mathbb{1} \rangle$ Pairing in the Heavily Electron Doped Iron-Based Superconductors. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 083702.	1.6	15
39	Origin of the material dependence of $\langle \mathbb{1} \rangle$ in the single-layered cuprates. <i>Physical Review B</i> , 2012, 85, .	3.2	82
40	Multiorbital analysis of the effects of uniaxial and hydrostatic pressure on $\langle \mathbb{1} \rangle$ in the single-layered cuprate superconductors. <i>Physical Review B</i> , 2012, 86, .	3.2	34
41	Least momentum space frustration as a condition for a $\langle \mathbb{1} \rangle$ in iron-based superconductors. <i>Superconductor Science and Technology</i> , 2012, 25, 084004.	3.5	12
42	$\langle \mathbb{1} \rangle$ -like spin resonance in the iron-based nodal superconductor BaFe $\langle \mathbb{1} \rangle$		