Hidetomo Usui

List of Publications by Year in descending order

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	Pnictogen height as a possible switch between high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:mrow></mml:math> nodes and low-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:mrow></mml:math> nodal superconductors. Physical Review B, 2009, 79.	3.2	615
2	Two-Orbital Model Explains the Higher Transition Temperature of the Single-Layer Hg-Cuprate Superconductor Compared to That of the La-Cuprate Superconductor. Physical Review Letters, 2010, 105, 057003.	7.8	140
3	Model Construction and a Possibility of Cupratelike Pairing in a New <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>d</mml:mi><mml:mn>9</mml:mn></mml:msup></mml:math> Nickelate Superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo		

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19	Enargite Cu₃PS₄: A Cuâ€“Sâ€Based Thermoelectric Material with a Wurtziteâ€Derivative Structure. Advanced Functional Materials, 2020, 30, 2000973.	14.9	25
20	Thermoelectric Properties and Electronic Structures of CuTi₂S₄ Thiospinel and Its Derivatives: Structural Design for Spinel-Related Thermoelectric Materials. Inorganic Chemistry, 2019, 58, 1425-1432.	4.0	24
21	High power factor in thiospinels Cu2TrTi3S8 (Tr= Mn, Fe, Co, Ni) arising from TiS6 octahedron network. Applied Physics Letters, 2016, 109, .	3.3	19
22	Thermoelectric Properties of the As/P-Based Zintl Compounds EuIn₂As_{2â€“x}P_x (x = 0â€“2) and SrSn₂As₂. ACS Applied Energy Materials, 2021, 4, 5155-5164.	5.1	16
23	Robust Spin Fluctuations andsÂ± Pairing in the Heavily Electron Doped Iron-Based Superconductors. Journal of the Physical Society of Japan, 2013, 82, 083702.	1.6	15
24	Origin of the non-monotonic variance of Tc in the 1111 iron based superconductors with isovalent doping. Scientific Reports, 2015, 5, 11399.	3.3	14
25	Charge and quadrupole fluctuations and gap anisotropy in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BiS</mml:mi><mml:mn>2</mml:mn></mml:msub></m -based superconductors. Physical Review B, 2017, 96, .	3.2	14
26	Thermoelectric Properties of (Ba,K)Zn₂As₂ Crystallized in the ThCr₂Si₂-type Structure. Inorganic Chemistry, 2020, 59, 5828-5834.	4.0	13
27	Least momentum space frustration as a condition for a â€˜highTcsweet spotâ€™ in iron-based superconductors. Superconductor Science and Technology, 2012, 25, 084004.	3.5	12
28	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
29	Hidden kagome-lattice picture and origin of high conductivity in delafossite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PtCoO</mml:mi><mml:mn>2</mml:mn></mml:msub> Physical Review Materials, 2019, 3, .	2.4	12
30	Pudding-Mold-Type Band as an Origin of the Large Seebeck Coefficient Coexisting with Metallic Conductivity in Carrier-Doped FeAs2 and PtSe2. Journal of Electronic Materials, 2014, 43, 1656-1661.	2.2	11
31	Theoretical Aspects of the Study on the Thermoelectric Properties of Pnictogen-Dichalcogenide Layered Compounds. Journal of the Physical Society of Japan, 2019, 88, 041010.	1.6	11
32	Theoretical Expectation of Large Seebeck Effect in PtAs₂ and PtP₂. Journal of the Physical Society of Japan, 2014, 83, 023706.	1.6	10
33	Possible pairing mechanism switching driven by structural symmetry breaking in BiS2-based layered superconductors. Scientific Reports, 2021, 11, 230.	3.3	9
34	Hidden robust presence of a hole Fermi surface in a heavily electron-doped iron-based superconductor LaFe2As2. Physical Review Research, 2019, 1, .	3.6	9
35	First-principles Study of LaOPbBiS₃ and Its Analogous Compounds as Thermoelectric Materials. Journal of the Physical Society of Japan, 2020, 89, 024702.	1.6	8
36	Theoretical study of correlation between spin fluctuations andTcin isovalent-doped 1111 iron-based superconductors. Physical Review B, 2015, 91, .	3.2	7

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37	First Principles Study on the Thermoelectric Performance of CaAl₂Si₂-type Zintl Phase Compounds. Journal of the Physical Society of Japan, 2020, 89, 124707.	1.6	7
38	The crystal structure and electrical/thermal transport properties of Li_{1â^'x}Sn_{2+x}P₂and its performance as a Li-ion battery anode material. Journal of Materials Chemistry A, 2021, 9, 7034-7041.	10.3	7
39	Electronic structure and thermoelectric properties of Sn1.2â^'xNbxTi0.8S3 with a quasi-one-dimensional structure. Journal of Applied Physics, 2019, 125, 175111.	2.5	6
40	Bipolar doping and thermoelectric properties of Zintl arsenide Eu₅In₂As₆. Journal of Materials Chemistry A, 2021, 9, 26362-26370.	10.3	6
41	Understanding the reentrant superconducting phase diagram of the iron pnictide Ca4Al2O6Fe2(As1â^'xPx)2: First-principles calculations. Physical Review B, 2013, 87, .	3.2	5
42	Superconductivity in In-doped AgSnBiTe3 with possible band inversion. Scientific Reports, 2021, 11, 22885.	3.3	4
43	Conserved axis-dependent conduction polarity in NaSnAs polycrystalline bulk sample for transverse thermoelectric application. Materials Today Communications, 2022, 31, 103558.	1.9	4
44	Effective five band analysis on the pressure effect of FeSe. Physica C: Superconductivity and Its Applications, 2010, 470, S382-S384.	1.2	3
45	Minimal Electronic Model for a Layered Nitride Halide Superconductor Î²-ZrNCl. Journal of the Physical Society of Japan, 2015, 84, 124706.	1.6	3
46	Pressure-induced superconductivity in the layered pnictogen diselenide NdO0.8F0.2Sb1â^'xBixSe2(x=0.3and0.7). Physical Review B, 2019, 100, .	3.2	3
47	A comparative study of thermoelectric Cu2TrTi3S8 (Trâ€¯=â€¯Co and Sc) thiospinels: Enhanced Seebeck coefficient via electronic structure modification. Journal of Alloys and Compounds, 2021, 871, 159548.	5.5	1
48	Pnictogen height as a switch between high-Tc nodeless and low-Tc nodal pairings in the iron-based superconductors. Physica C: Superconductivity and Its Applications, 2010, 470, S416-S417.	1.2	0