

Hiroshi Nakatsugawa

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.

35
papers

479
citations

13
h-index

21
g-index

37
ext. papers

529
ext. citations

2.6
avg, IF

3.13
L-index

#	Paper	IF	Citations
35	Thermoelectric Properties of Heusler Fe ₂ TiSn Alloys. <i>Journal of Electronic Materials</i> , 2020 , 49, 2802-2812	2.9	5
34	Effect of Sb substitution on structural, morphological and electrical properties of BaSnO ₃ for thermoelectric application. <i>Physica B: Condensed Matter</i> , 2020 , 597, 412387	2.8	0
33	High-Temperature Thermoelectric Properties of Pr _{1-x} Sr _x FeO ₃ (0.1 ≤ x ≤ 0.7). <i>Materials Transactions</i> , 2019 , 60, 1051-1060	1.3	0
32	High-Temperature Thermoelectric Properties of Perovskite-Type Pr _{0.9} Sr _{0.1} Mn _{1-x} Fe _x O ₃ (0 ≤ x ≤ 1). <i>Journal of Electronic Materials</i> , 2017 , 46, 3262-3272	1.9	9
31	P-Type Thermoelectric Properties of Pr _{1-x} Sr _x MnO ₃ (0.1 ≤ x ≤ 0.3) and La _{1-x} Sr _x FeO ₃ (0.1 ≤ x ≤ 0.3). <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 597-606	0.4	1
30	Thermoelectric and Magnetic Properties of Pr _{1-x} Sr _x MnO ₃ (0.1 ≤ x ≤ 0.7). <i>Materials Transactions</i> , 2015 , 56, 864-871	1.3	6
29	Electric Current Dependence of a Self-Cooling Device Consisting of Silicon Wafers Connected to a Power MOSFET. <i>Journal of Electronic Materials</i> , 2014 , 43, 1757-1767	1.9	4
28	Optimisation of the Solid Oxide Fuel Cell (SOFC) cathode material Ca ₃ Co ₄ O ₉ . <i>Journal of Power Sources</i> , 2011 , 196, 7328-7332	8.9	26
27	Thermoelectric Properties of Single-Crystalline SiC and Dense Sintered SiC for Self-Cooling Devices. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 031301	1.4	3
26	The Electrochemical and Thermal Performances of Ca ₃ Co ₄ O ₉ as a Cathode Material for IT-SOFCs. <i>ECS Transactions</i> , 2009 , 25, 2625-2630	1	2
25	The Effects of Polysilastyrene and Au Additions on the Thermoelectric Properties of SiC/Si Composites. <i>Journal of Electronic Materials</i> , 2009 , 38, 1387-1391	1.9	5
24	Texture development of Ca ₃ Co ₄ O ₉ thermoelectric oxide by high temperature plastic deformation and its contribution to the improvement in electric conductivity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 527, 61-64	5.3	14
23	Ca ₃ Co ₄ O ₉ A Thermoelectric Material for SOFC Cathode. <i>Chemistry of Materials</i> , 2009 , 21, 4738-4745	9.6	67
22	Thermoelectric and Magnetic Properties of [(Ca _{1-x} Pb _x) ₂ CoO ₃ .1]0.62CoO ₂ (0 ≤ x ≤ 0.03). <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 3004-3012	1.4	5
21	Evidence for the two-dimensional hybridization in Na _{0.79} CoO ₂ and Na _{0.84} CoO ₂ . <i>Journal of Solid State Chemistry</i> , 2004 , 177, 1137-1145	3.3	12
20	Electrical transport properties in LiMn ₂ O ₄ , Li _{0.95} Mn ₂ O ₄ , and LiMn _{1.95} B _{0.05} O ₄ (B=Al or Ga) around room temperature. <i>Journal of Applied Physics</i> , 2002 , 91, 2149-2154	2.5	45
19	Electronic structures and magnetic properties in Sr _{1-x} La _x RuO ₃ (0.0 ≤ x ≤ 0.5). <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 415-425	1.8	63

18	Electronic structures and chemical bonding of $\text{Bi}_{2-x}\text{Pb}_x\text{Sr}_3\text{Co}_2\text{O}_9$ ($x=0.0$ and 0.5). <i>Materials Letters</i> , 2002 , 53, 221-226	3.3	1
17	Thermoelectric Properties (Resistivity and Thermopower) in $(\text{Bi}_{1.5}\text{Pb}_{0.5}\text{Ca}_{2-x}\text{M}_x\text{Co}_2\text{O}_8)$ ($\text{M}=\text{Sc}^{3+}$, Y^{3+} , or La^{3+}). <i>Journal of Solid State Chemistry</i> , 2002 , 167, 472-479	3.3	5
16	Electronic and Magnetic Properties Due to Co Ions in $\text{La}_{0.9}\text{Sr}_{0.1}\text{Fe}_{1-x}\text{Co}_x\text{O}_3$. <i>Journal of Solid State Chemistry</i> , 2001 , 159, 215-222	3.3	5
15	Thermoelectric properties in $\text{Bi}_{2-x}\text{Pb}_x\text{Sr}_{3-y}\text{Y}_y\text{Co}_2\text{O}_9$ -ceramics. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 1017-1024	3	6
14	Study of Electronic Structures in $\text{LaCo}_{1-x}\text{Ti}_x\text{O}_3$ ($x=0, 0.05$ and 0.15) Using Discrete-Variational-X Γ Cluster Method. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 1186-1189	1.4	4
13	Small polarons in $\text{La}_{2/3}\text{TiO}_3$. <i>Journal of Applied Physics</i> , 2000 , 88, 2560-2563	2.5	18
12	Application of $\text{La}_{0.9}(\text{Sr}_{1-x}\text{Ca}_x)\text{CoO}_4$ as a Thermoelectric Material. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1999 , 63, 1393-1399	0.4	1
11	Correlation between hopping conduction and transferred exchange interaction in La_2NiO_4 below 300 K. <i>Physica B: Condensed Matter</i> , 1999 , 270, 332-340	2.8	13
10	The origin of the change in type of the majority carrier in. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 1711-1722	1.8	21
9	Polaronic Conduction in $\text{La}_{2-x}\text{Sr}_x\text{CoO}_4$ ($0.25 \leq x \leq 1.0$) below Room Temperature. <i>Journal of Solid State Chemistry</i> , 1998 , 139, 176-184	3.3	35
8	Electrical transport in below 60 K. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 8999-9013	1.8	16
7	Transition phenomenon in Ti_2O_3 using the discrete variational X Γ cluster method and periodic shell model. <i>Physical Review B</i> , 1997 , 56, 12931-12938	3.3	30
6	Electronic structures in VO_2 using the periodic polarizable point-ion shell model and DV-X Γ method. <i>Physical Review B</i> , 1997 , 55, 2157-2163	3.3	13
5	Electrical Transport in Semiconducting $(\text{LaMn}_{1-x}\text{Ti}_x)\text{O}_3$ ($x \leq 0.05$). <i>Journal of Solid State Chemistry</i> , 1997 , 133, 466-472	3.3	30
4	The $\text{NiO}(001)$ surface structure calculated by a two-dimensional polarizable point-ion shell model. <i>Surface Science</i> , 1996 , 357-358, 96-101	1.8	7
3	Application of a polarizable point-ion shell model to a two-dimensional periodic structure: The $\text{NiO}(001)$ surface. <i>Physical Review B</i> , 1995 , 51, 10956-10964	3.3	6
2	Thermoelectric Properties of Pb and Sr Doped $\text{Ca}_3\text{Co}_4\text{O}_9$ 171-184		
1	Deformation and Texture Behaviors of Co-Oxides with Misfit Structure under High Temperature Compression. <i>Ceramic Engineering and Science Proceedings</i> , 41-50	0.1	

