Hiroshi Nakatsugawa

List of Publications by Citations

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	Ca3Co4O9 A Thermoelectric Material for SOFC Cathode. *Chemistry of Materials*, **2009**, 21, 4738-4745	9.6	67
34	Electronic structures and magnetic properties in Sr1-xLaxRuO3(0.0?x?0.5). *Journal of Physics Condensed Matter*, **2002**, 14, 415-425	1.8	63
33	Electrical transport properties in LiMn2O4, Li0.95Mn2O4, and LiMn1.95B0.05O4 (B=Al or Ga) around room temperature. *Journal of Applied Physics*, **2002**, 91, 2149-2154	2.5	45
32	Polaronic Conduction in La2 SrxCoO4(0.25 1.10) below Room Temperature. *Journal of Solid State Chemistry*, **1998**, 139, 176-184	3.3	35
31	Transition phenomenon in Ti2O3 using the discrete variational X cluster method and periodic shell model. *Physical Review B*, **1997**, 56, 12931-12938	3.3	30
30	Electrical Transport in Semiconducting (LaMn1 Tix)1 O3(x 0.05). *Journal of Solid State Chemistry* , **1997**, 133, 466-472	3.3	30
29	Optimisation of the Solid Oxide Fuel Cell (SOFC) cathode material Ca3Co4O9 *Journal of Power Sources*, **2011**, 196, 7328-7332	8.9	26
28	The origin of the change in type of the majority carrier in. *Journal of Physics Condensed Matter*, **1999** , 11, 1711-1722	1.8	21
27	Small polarons in La2/3TiO3 *Journal of Applied Physics*, **2000**, 88, 2560-2563	2.5	18
26	Electrical transport in below 60 K. *Journal of Physics Condensed Matter*, **1998**, 10, 8999-9013	1.8	16
25	Texture development of Ca3Co4O9 thermoelectric oxide by high temperature plastic deformation and its contribution to the improvement in electric conductivity. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 527, 61-64	5.3	14
24	Electronic structures in VO2susing the periodic polarizable point-ion shell model and DV-X method. *Physical Review B*, **1997**, 55, 2157-2163	3.3	13
23	Correlation between hopping conduction and transferred exchange interaction in La2NiO4+ below 300 K. *Physica B: Condensed Matter*, **1999**, 270, 332-340	2.8	13
22	Evidence for the two-dimensional hybridization in Na0.79CoO2 and Na0.84CoO2. *Journal of Solid State Chemistry*, **2004**, 177, 1137-1145	3.3	12
21	High-Temperature Thermoelectric Properties of Perovskite-Type Pr0.9Sr0.1Mn1 Fe x O3 (0 x 1). *Journal of Electronic Materials*, **2017**, 46, 3262-3272	1.9	9
20	The NiO(001) surface structure calculated by a two-dimensional polarizable point-ion shell model. *Surface Science*, **1996**, 357-358, 96-101	1.8	7
19	Thermoelectric and Magnetic Properties of Pr1−xSrxMnO3 (0.1 ≦ x ≦ 0.7). *Materials Transactions*, **2015**, 56, 864-871	1.3	6

18	Thermoelectric properties in Bi2-xPbxSr3-yYyCo2O9-□eramics. *Journal Physics D: Applied Physics*, **2001**, 34, 1017-1024	3	6
17	Application of a polarizable point-ion shell model to a two-dimensional periodic structure: The NiO (001) surface. *Physical Review B*, **1995**, 51, 10956-10964	3.3	6
16	The Effects of Polysilastyrene and Au Additions on the Thermoelectric Properties of □SiC/Si Composites. *Journal of Electronic Materials*, **2009**, 38, 1387-1391	1.9	5
15	Thermoelectric and Magnetic Properties of [(Ca1-xPbx)2CoO3.1]0.62CoO2(0?x?0.03). *Japanese Journal of Applied Physics*, **2007**, 46, 3004-3012	1.4	5
14	Electronic and Magnetic Properties Due to Co Ions in La0.9Sr0.1Fe1□CoxO3. *Journal of Solid State Chemistry*, **2001**, 159, 215-222	3.3	5
13	Thermoelectric Properties (Resistivity and Thermopower) in (Bi1.5Pb0.5Ca2□MxCo2O8□ (M=Sc3+, Y3+, or La3+). *Journal of Solid State Chemistry*, **2002**, 167, 472-479	3.3	5
12	Thermoelectric Properties of Heusler Fe2TiSn Alloys. *Journal of Electronic Materials*, **2020**, 49, 2802-2812	1.9	5
11	Electric Current Dependence of a Self-Cooling Device Consisting of Silicon Wafers Connected to a Power MOSFET. *Journal of Electronic Materials*, **2014**, 43, 1757-1767	1.9	4
10	Study of Electronic Structures in LaCo1-xTixO3(x= 0, 0.05 and 0.15) Using Discrete-Variational-X□ Cluster Method. *Japanese Journal of Applied Physics*, **2000**, 39, 1186-1189	1.4	4
9	Thermoelectric Properties of Single-Crystalline SiC and Dense Sintered SiC for Self-Cooling Devices. *Japanese Journal of Applied Physics*, **2011**, 50, 031301	1.4	3
8	The Electrochemical and Thermal Performances of Ca3Co4O9-□as a Cathode Material for IT-SOFCs. *ECS Transactions*, **2009**, 25, 2625-2630	1	2
7	P-Type Thermoelectric Properties of Pr1−xSrxMnO3 (0.1?x?0.3) and La1−xSrxFeO3 (0.1?x?0.3). *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2015**, 79, 597-606	0.4	1
6	Electronic structures and chemical bonding of Bi2□PbxSr3Co2O9 (x=0.0 and 0.5). *Materials Letters*, **2002**, 53, 221-226	3.3	1
5	Application of La0.9(Sr1−xCax)1.1CoO4 as a Thermoelectric Material. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **1999**, 63, 1393-1399	0.4	1
4	Effect of Sb substitution on structural, morphological and electrical properties of BaSnO3 for thermoelectric application. *Physica B: Condensed Matter*, **2020**, 597, 412387	2.8	0
3	High-Temperature Thermoelectric Properties of Pr1□SrxFeO3 (0.1 □x □0.7). *Materials Transactions*, **2019**, 60, 1051-1060	1.3	0
2	Thermoelectric Properties of Pb and Sr Doped Ca3Co4O9171-184		
1	Deformation and Texture Behaviors of Co-Oxides with Misfit Structure under High Temperature Compression. *Ceramic Engineering and Science Proceedings*,41-50	0.1	