Han-Ill Yoo

List of Publications by Year in descending order

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67 papers	1,569 citations	304743 22 h-index	345221 36 g-index
69 all docs	69 docs citations	69 times ranked	1324 citing authors

#	Article	IF	Citations
1	Title is missing!. , 2002, 8, 5-36.		109
2	Oxygen-vacancy-induced ferromagnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CeO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms first principles. Physical Review B, 2009, 79, .	3.2	105
3	Chemical diffusivity of BaTiO3â˜. Solid State Ionics, 1999, 120, 141-153.	2.7	99
4	Phase Stability and Oxygen Nonstoichiometry of Highly Oxygen-Deficient Perovskite-Type Oxides: A Case Study of (Ba,Sr)(Co,Fe)O_{3â˜Î´}. Chemistry of Materials, 2012, 24, 269-274.	6.7	83
5	Iron-Excess Manganese Ferrite: Electrical Conductivity and Cation Distributions. Journal of the American Ceramic Society, 1987, 70, 388-392.	3.8	73
6	Hydration and oxidation kinetics of a proton conductor oxide, SrCe_{0.95}Yb_{0.05}O_{2.975}. Physical Chemistry Chemical Physics, 2008, 10, 974-982.	2.8	57
7	Diffusion of Sr and Zr in BaTiO3 single crystals. Solid State Sciences, 2008, 10, 725-734.	3.2	57
8	Chemical Diffusivity of BaTiO_{3â˜Î´}: IV, Acceptorâ€Doped Case. Journal of the American Ceramic Society, 2000, 83, 773-779.	3.8	55
9	Two-Fold Diffusion Kinetics of Oxygen Re-Equilibration in Donor-Doped BaTiO3. Journal of the American Ceramic Society, 2005, 88, 617-623.	3.8	55
10	Chemical diffusivity ofBaTiO3â˜Î´:Defect chemical analysis. Physical Review B, 2000, 61, 3975-3982.	3.2	53
11	Electrical Conductivity Relaxations and Chemical Diffusivities of BaCe[sub 0.95]Yb[sub 0.05]O[sub 2.975] upon Hydration and Oxidation. Journal of the Electrochemical Society, 2009, 156, B66.	2.9	49
12	Mass relaxation vs. electrical conductivity relaxation of a proton conducting oxide upon hydration and dehydration. Solid State Ionics, 2009, 180, 1443-1447.	2.7	43
13	Defect-chemical analysis of the nonstoichiometry, conductivity and thermopower of La2NiO4+Î´. Physical Chemistry Chemical Physics, 2010, 12, 4704.	2.8	40
14	Conductivity relaxation patterns of mixed conductor oxides under a chemical potential gradient. Solid State Ionics, 2009, 180, 326-337.	2.7	35
15	Correlation of the cationic â€˜charge of transportâ€™ with the nonstoichiometry and the oxygen exponents in C1â˜Î´O. Journal of Physics and Chemistry of Solids, 1996, 57, 65-73.	4.0	33
16	Electron-Ion Interference and Onsager Reciprocity in Mixed Ionic-Electronic Transport inTiO2. Physical Review Letters, 2006, 97, 255901.	7.8	33
17	Alluaudite LiMnPO4: a new Mn-based positive electrode for Li rechargeable batteries. Journal of Materials Chemistry A, 2014, 2, 8632-8636.	10.3	32
18	Electrical conductivityâ€“defect structure correlation of variable-valence and fixed-valence acceptor-doped BaTiO3 in quenched state. Physical Chemistry Chemical Physics, 2009, 11, 3115.	2.8	31

#	Article	IF	Citations
19	Experimental determination of the Onsager coefficients of transport for Ce0.8Pr0.2O2â^'Î´. Physical Chemistry Chemical Physics, 2010, 12, 9637.	2.8	30
20	Template route toward a novel nanostructured superionic conductor film; AgI nanorod/Î³-Al2O3. Chemical Communications, 2001, , 2530-2531.	4.1	29
21	Partial electronic conductivity and electrolytic domain of bilayer electrolyte Zr0.84Y0.16O1.92/Ce0.9Gd0.1O1.95. Solid State Ionics, 2011, 195, 25-35.	2.7	28
22	Two-fold -to-single-fold transition of the conductivity relaxation patterns of proton-conducting oxides upon hydration/dehydration. Solid State Ionics, 2013, 252, 132-139.	2.7	26
23	Al-doped SrTiO3: Part II, unusual thermodynamic factor and chemical diffusivity. Solid State Ionics, 2007, 178, 1089-1094.	2.7	22
24	Reassessment of conventional polarization technique to measure partial electronic conductivity of electrolytes. Solid State Ionics, 2010, 181, 724-729.	2.7	22
25	Equal mobility of constituent cations in BaTiO3. Applied Physics Letters, 2008, 92, .	3.3	21
26	Effect of acceptor size and hole degeneracy on oxygen nonstoichiometry of La2NiO4+Î´. Solid State Ionics, 2013, 232, 129-137.	2.7	20
27	Isothermal Onsager matrices and acceptor size effect on mass/charge transport properties of La_{1.9}A_{0.1}NiO_{3.95+Î´} (A = Ca, Sr). Physical Chemistry Chemical Physics, 2014, 16, 16595-16605.	2.8	20
28	Co-Doping Effect of Mn and Y on Charge and Mass Transport Properties of BaTiO3. Journal of Electroceramics, 2004, 13, 785-791.	2.0	19
29	Thermoelectric behavior of a mixed ionic electronic conductor, Ce1â^'xGdxO2â^'x/2â^'Î´. Physical Chemistry Chemical Physics, 2009, 11, 391-401.	2.8	19
30	On the path-dependence of the open-cell voltage of a galvanic cell involving a ternary or multinary compound with multiple mobile ionic species under multiple chemical potential gradients. Physical Chemistry Chemical Physics, 2010, 12, 14699.	2.8	17
31	Compilation of all the isothermal mass/charge transport properties of the mixed conducting La2NiO4+Î´ at elevated temperatures. Physical Chemistry Chemical Physics, 2011, 13, 4651.	2.8	17
32	Title is missing!. , 2001, 6, 61-74.		16
33	P-Type Partial Conductivity of Donor(La)-Doped BaTiO₃. , 2003, 10, 215-219.		15
34	Hydration kinetics of proton-conducting zirconates upon a change of temperature in wet atmosphere. Solid State Ionics, 2010, 181, 1323-1327.	2.7	15
35	Chemical diffusion in complex oxides with an emphasis on BaTiO3. Physical Chemistry Chemical Physics, 2003, 5, 2212-2218.	2.8	13
36	Hydration of Proton-conducting BaCe0.9Y0.1O3â^'Î´ by Decoupled Mass Transport. Scientific Reports, 2017, 7, 486.	3.3	13

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37	Cross Effect Between Ion and Electron Flows in Fe_{3â€“Î´}O₄. Journal of Materials Research, 2002, 17, 1213-1219.	2.6	12
38	Complete representation of isothermal mass and charge transport properties of mixed ionicâ€“electronic conductor La2NiO4+Î´. Physical Chemistry Chemical Physics, 2010, 12, 12951.	2.8	11
39	Preparation of Asymmetric Tubular Oxygen Separation Membrane with Oxygen Permeable Pr2Ni0.75Cu0.25Ga0.05O4+Î´. International Journal of Applied Ceramic Technology, 2011, 8, 800-808.	2.1	11
40	On the origin of positive deviation of the defect structure of complex oxides. Solid State Ionics, 2012, 229, 59-73.	2.7	11
41	Onsager coefficients of mixed ionic electronic conduction in oxides. Solid State Ionics, 2008, 179, 837-841.	2.7	10
42	Concentration-cell measurement of proton transference number of SrCe0.95Yb0.05O3-Î´. Solid State Ionics, 2012, 213, 22-28.	2.7	10
43	Partial conductivities and Onsager transport coefficient matrix of BaCo0.70Fe0.22Nb0.08O3â^’Î´. Solid State Ionics, 2013, 241, 5-11.	2.7	10
44	Isothermal transport properties and majority-type defects of BaCo0.70Fe0.22Nb0.08O3â^’Î´. Physical Chemistry Chemical Physics, 2015, 17, 2598-2607.	2.8	8
45	From Onsager to mixed ionic electronic conductors. Solid State Ionics, 2014, 262, 2-8.	2.7	7
46	Unexpected thermoelectric behavior and immiscibility of the allegedly complete solid solutionSr(Ru1â€“xTix)O3. Physical Review B, 2014, 89, .	3.2	7
47	Onsager Transport Coefficients of Mixed Ionic Electronic Conduction in CeO2-Î´. ECS Transactions, 2008, 13, 327-336.	0.5	6
48	Semiconductor-to-insulator transition of undoped-BaTiO3 in quenched state. Journal of Applied Physics, 2010, 107, .	2.5	6
49	Experimental demonstration of the path- and time-dependence of open-circuit voltage of galvanic cells involving a multinary compound under multiple chemical potential gradients. Solid State Ionics, 2013, 235, 22-31.	2.7	6
50	Electrotransport-induced unmixing and decomposition of ternary oxides. Journal of Applied Physics, 2015, 117, .	2.5	6
51	A Chernia-Type Electrotransport Experiment in Magnetite, Fe₃₋_{Î´}O₄. Electrochemistry, 2000, 68, 482-485.	1.4	6
52	Chemical Diffusivity and Defect Chemistry of BaTiO_{3â^’Î´}. Electrochemistry, 2000, 68, 415-422.	1.4	5
53	Electrical transport properties of single-crystalline Mnâ€“Zn ferrous ferrite. Journal of Materials Research, 2001, 16, 774-777.	2.6	5
54	Currentâ€“voltage characteristic of BaTiO3â^’Î´ in its mixed n/p regime under oxygen potential gradients. Solid State Ionics, 2002, 150, 373-382.	2.7	5

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55	Nonstoichiometry and lattice parameter of (Mg_{0.22}Mn_{0.07}Fe_{0.71})_{3â€“Î´}O₄ ferrite. Journal of Materials Research, 1999, 14, 4070-4074.	2.6	4
56	Thermomigration kinetics and a novel method to determine the chemical diffusivity of a mixed conductor. Solid State Ionics, 2017, 300, 212-218.	2.7	4
57	Oxygen thermomigration in acceptor-doped perovskite. Physical Chemistry Chemical Physics, 2017, 19, 11120-11130.	2.8	4
58	Insulation-resistance degradation kinetics of bulk BaTi1âˆ’Î¾AlÎ¾O3âˆ’Î” and defect-chemical origin of acceptor-type(A) and doping-level(Î¾) effect. Journal of Applied Physics, 2016, 120, .	2.5	3
59	On the kinetic decomposition voltage of ternary oxides. Physical Chemistry Chemical Physics, 2018, 20, 2396-2402.	2.8	3
60	On the steady-state chemical potential profiles in bilayer solid electrolytes. Journal of Materials Research, 2012, 27, 1969-1974.	2.6	2
61	Comment on â€œHow to interpret Onsager cross terms in mixed ionic electronic conductorsâ€• by I. Riess, Phys. Chem. Chem. Phys., 2014,16, 22513. Physical Chemistry Chemical Physics, 2015, 17, 11103-11106.	2.8	2
62	FAILURE OF THE NERNST-EINSTEIN EQUATION IN MIXED CONDUCTOR COMPOUNDS. , 2000, , .		0
63	Interference Effect between Electron and Ion Flows in Semiconducting Fe3âˆ’Î´O4. Materials Research Society Symposia Proceedings, 2000, 658, 3251.	0.1	0
64	ELECTRICAL CONDUCTION IN BaTiO3-Î´ IN ITS MIXED n/p REGIME UNDER OXYGEN POTENTIAL GRADIENTS. , 2002, , .		0
65	High Temperature Transport Properties and Reaction Kinetics of (C_{e_y}U_{t-y})O_{2+x}. Journal of Nuclear Science and Technology, 2002, 39, 780-783.	1.3	0
66	Mechanistic origin of the time-dependence of the open-circuit voltage of a galvanic cell involving a ternary or higher compound. Physical Chemistry Chemical Physics, 2021, 23, 15119-15126.	2.8	0
67	Increasing Importance of Basic Knowledge in Solid State Electrochemistry. Electrochemistry, 2000, 68, 393-393.	1.4	0