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	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
2	On the kinetic decomposition voltage of ternary oxides. Physical Chemistry Chemical Physics, 2018, 20, 2396-2402.	2.8	3
3	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
4	Oxygen thermomigration in acceptor-doped perovskite. Physical Chemistry Chemical Physics, 2017, 19, 11120-11130.	2.8	4
5	Hydration of Proton-conducting BaCe0.9Y0.1O3â^'Î´ by Decoupled Mass Transport. Scientific Reports, 2017, 7, 486.	3.3	13
6	Insulation-resistance degradation kinetics of bulk BaTi1â^'Î¾Alî¾O3â^'Î" and defect-chemical origin of acceptor-type(A) and doping-level(Î¾) effect. Journal of Applied Physics, 2016, 120, .	2.5	3
7	Electrotransport-induced unmixing and decomposition of ternary oxides. Journal of Applied Physics, 2015, 117, .	2.5	6
8	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
9	Isothermal transport properties and majority-type defects of BaCo0.70Fe0.22Nb0.08O3â^'Î´. Physical Chemistry Chemical Physics, 2015, 17, 2598-2607.	2.8	8
10	From Onsager to mixed ionic electronic conductors. Solid State Ionics, 2014, 262, 2-8.	2.7	7
11	Unexpected thermoelectric behavior and immiscibility of the allegedly complete solid solutionSr(Ru1â€"xTix)O3. Physical Review B, 2014, 89, .	3.2	7
12	Alluaudite LiMnPO4: a new Mn-based positive electrode for Li rechargeable batteries. Journal of Materials Chemistry A, 2014, 2, 8632-8636.	10.3	32
13	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
14	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
15	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
16	Partial conductivities and Onsager transport coefficient matrix of BaCo0.70Fe0.22Nb0.08O3â^'Î´. Solid State Ionics, 2013, 241, 5-11.	2.7	10
17	Effect of acceptor size and hole degeneracy on oxygen nonstoichiometry of La2NiO4+Î´. Solid State Ionics, 2013, 232, 129-137.	2.7	20
18	On the steady-state chemical potential profiles in bilayer solid electrolytes. Journal of Materials Research, 2012, 27, 1969-1974.	2.6	2

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19	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
20	On the origin of positive deviation of the defect structure of complex oxides. Solid State Ionics, 2012, 229, 59-73.	2.7	11
21	Concentration-cell measurement of proton transference number of SrCe0.95Yb0.05O3-Î´. Solid State Ionics, 2012, 213, 22-28.	2.7	10
22	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
23	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
24	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
25	Reassessment of conventional polarization technique to measure partial electronic conductivity of electrolytes. Solid State Ionics, 2010, 181, 724-729.	2.7	22
26	Hydration kinetics of proton-conducting zirconates upon a change of temperature in wet atmosphere. Solid State Ionics, 2010, 181, 1323-1327.	2.7	15
27	Defect-chemical analysis of the nonstoichiometry, conductivity and thermopower of La2NiO4+Î´. Physical Chemistry Chemical Physics, 2010, 12, 4704.	2.8	40
28	Semiconductor-to-insulator transition of undoped-BaTiO3 in quenched state. Journal of Applied Physics, 2010, 107, .	2.5	6
29	Experimental determination of the Onsager coefficients of transport for Ce0.8Pr0.2O2â^'Î´. Physical Chemistry Chemical Physics, 2010, 12, 9637.	2.8	30
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	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
32	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
33	Conductivity relaxation patterns of mixed conductor oxides under a chemical potential gradient. Solid State Ionics, 2009, 180, 326-337.	2.7	35
34	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
35	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
36	Thermoelectric behavior of a mixed ionic electronic conductor, Ce1â^'xGdxO2â^'x/2â^'Î´. Physical Chemistry Chemical Physics, 2009, 11, 391-401.	2.8	19

#	ARTICLE	IF	CITATIONS
37	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:msub></mml:mrow></mml:math> first principles. Physical Review B, 2009, 79, .	3.2	105
38	Onsager coefficients of mixed ionic electronic conduction in oxides. Solid State Ionics, 2008, 179, 837-841.	2.7	10
39	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
40	Diffusion of Sr and Zr in BaTiO3 single crystals. Solid State Sciences, 2008, 10, 725-734.	3.2	57
41	Onsager Transport Coefficients of Mixed Ionic Electronic Conduction in CeO2-Î´. ECS Transactions, 2008, 13, 327-336.	0.5	6
42	Equal mobility of constituent cations in BaTiO3. Applied Physics Letters, 2008, 92, .	3.3	21
43	Al-doped SrTiO3: Part II, unusual thermodynamic factor and chemical diffusivity. Solid State Ionics, 2007, 178, 1089-1094.	2.7	22
44	Electron-Ion Interference and Onsager Reciprocity in Mixed Ionic-Electronic Transport inTiO2. Physical Review Letters, 2006, 97, 255901.	7.8	33
45	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
46	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
47	P-Type Partial Conductivity of Donor(La)-Doped BaTiO₃. , 2003, 10, 215-219.		15
48	Chemical diffusion in complex oxides with an emphasis on BaTiO3. Physical Chemistry Chemical Physics, 2003, 5, 2212-2218.	2.8	13
49	Cross Effect Between Ion and Electron Flows in Fe_{3â€“Î´}O₄. Journal of Materials Research, 2002, 17, 1213-1219.	2.6	12
50	ELECTRICAL CONDUCTION IN BaTiO3-Î´ IN ITS MIXED n/p REGIME UNDER OXYGEN POTENTIAL GRADIENTS. , 2002, , .		0
51	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
52	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
53	Title is missing!. , 2002, 8, 5-36.		109
54	Template route toward a novel nanostructured superionic conductor film; AgI nanorod/Î³-Al2O3. Chemical Communications, 2001, , 2530-2531.	4.1	29

#	Article	IF	Citations
55	Title is missing!. , 2001, 6, 61-74.		16
56	Electrical transport properties of single-crystalline Mnâ€“Zn ferrous ferrite. Journal of Materials Research, 2001, 16, 774-777.	2.6	5
57	FAILURE OF THE NERNST-EINSTEIN EQUATION IN MIXED CONDUCTOR COMPOUNDS. , 2000, , .		0
58	Interference Effect between Electron and Ion Flows in Semiconducting Fe3â^ÎŕO4. Materials Research Society Symposia Proceedings, 2000, 658, 3251.	0.1	0
59	Chemical Diffusivity and Defect Chemistry of BaTiO_{3â^Îŕ}. Electrochemistry, 2000, 68, 415-422.	1.4	5
60	Chemical diffusivity ofBaTiO3â^Îŕ:Defect chemical analysis. Physical Review B, 2000, 61, 3975-3982.	3.2	53
61	Chemical Diffusivity of BaTiO_{3â^Îŕ}: IV, Acceptorâ€Doped Case. Journal of the American Ceramic Society, 2000, 83, 773-779.	3.8	55
62	A Chernia-Type Electrotransport Experiment in Magnetite, Fe₃₋_{Îŕ}O₄. Electrochemistry, 2000, 68, 482-485.	1.4	6
63	Increasing Importance of Basic Knowledge in Solid State Electrochemistry. Electrochemistry, 2000, 68, 393-393.	1.4	0
64	Chemical diffusivity of BaTiO3â^'. Solid State Ionics, 1999, 120, 141-153.	2.7	99
65	Nonstoichiometry and lattice parameter of (Mg_{0.22}Mn_{0.07}Fe_{0.71})_{3â€“Îŕ}O₄ ferrite. Journal of Materials Research, 1999, 14, 4070-4074.	2.6	4
66	Correlation of the cationic â€˜charge of transportâ€™ with the nonstoichiometry and the oxygen exponents in C1â^ÎŕO. Journal of Physics and Chemistry of Solids, 1996, 57, 65-73.	4.0	33
67	Iron-Excess Manganese Ferrite: Electrical Conductivity and Cation Distributions. Journal of the American Ceramic Society, 1987, 70, 388-392.	3.8	73