

Ivan Ivanov

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

436
citations

759233

12
h-index

794594

19
g-index

37
all docs

37
docs citations

37
times ranked

488
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamics of formation of hybrid perovskite-type methylammonium lead halides. Journal of Chemical Thermodynamics, 2018, 116, 253-258.	2.0	54
2	Oxygen content, crystal structure and chemical expansion of $\text{PrBaCo}_{2-x}\text{Fe}_x\text{O}_{6-\delta}$ double perovskites. Dalton Transactions, 2014, 43, 11862-11866.	3.3	26
3	Formation Thermodynamics, Stability, and Decomposition Pathways of CsPbX_3 (X = Cl, Br). Tj ETQq1 1 0.784314 rgBT /O 3.1 26	3.1	26
4	Oxygen content, cobalt oxide exsolution and defect structure of the double perovskite $\text{PrBaCo}_2\text{O}_{6-\delta}$. Journal of Materials Chemistry A, 2016, 4, 1962-1969.	10.3	25
5	Chemical lattice strain in nonstoichiometric oxides: an overview. Journal of Materials Chemistry A, 2022, 10, 6351-6375.	10.3	25
6	Thermodynamics of formation of double perovskites $\text{GdBaCo}_{2-x}\text{M}_x\text{O}_{6-\delta}$ (M = Fe, Mn; x = 0, 0.2). Thermochemica Acta, 2011, 519, 12-15.	2.7	22
7	Crystal structure and oxygen content of the double perovskites $\text{GdBaCo}_{2-x}\text{Fe}_x\text{O}_{6-\delta}$. Journal of Solid State Chemistry, 2013, 199, 154-159.	2.9	22
8	Oxygen nonstoichiometry, defect structure and related properties of $\text{LaNi}_{0.6}\text{Fe}_{0.4}\text{O}_{3-\delta}$. Journal of Materials Chemistry A, 2015, 3, 6028-6037.	10.3	21
9	New phase transition in CsPbBr_3 . Materials Letters, 2020, 278, 128458.	2.6	20
10	$\text{PrBaCo}_2\text{O}_{6-\delta}$ - $\text{Ce}_{0.8}\text{Sm}_{0.2}\text{O}_{1.9}$ Composite Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells: Stability and Cation Interdiffusion. Energies, 2019, 12, 417.	3.1	17
11	Double perovskites $\text{REBaCo}_{2-x}\text{M}_x\text{O}_{6-\delta}$ (RE=La, Pr, Nd, Eu, Gd, Y; M=Fe, Mn; x=0, 0.2). Tj ETQq1 1 0.784314 rgBT /O 1.9 14	1.9	14
12	Interplay between chemical strain, defects and ordering in $\text{Sr}_{1-x}\text{La}_x\text{FeO}_3$ materials. Acta Materialia, 2019, 162, 33-45.	7.9	13
13	Oxygen nonstoichiometry, crystal and defect structure of the double perovskite $\text{GdBaCo}_{1.8}\text{Fe}_{0.2}\text{O}_{6-\delta}$. Solid State Ionics, 2012, 218, 13-17.	2.7	12
14	Oxygen content and thermodynamics of formation of double perovskites $\text{REBaCo}_2\text{O}_{6-\delta}$ (RE = Gd, Pr). Thermochemica Acta, 2014, 578, 28-32.	2.7	12
15	Mechano-Chemical Coupling in Double Perovskites as Energy Related Materials. ECS Transactions, 2016, 72, 21-35.	0.5	12
16	The defect structure and chemical lattice strain of the double perovskites $\text{Sr}_2\text{BMoO}_{6-\delta}$ (B = Mg, Fe). Dalton Transactions, 2016, 45, 12906-12913.	3.3	12
17	The origin of triple conductivity and water uptake in layered double perovskites: A case study on lanthanum-substituted $\text{GdBaCo}_2\text{O}_{6-\delta}$. Journal of Alloys and Compounds, 2020, 845, 156309.	5.5	11
18	<i>In Situ</i> and <i>ex Situ</i> Study of Cubic $\text{La}_{0.5}\text{Ba}_{0.5}\text{CoO}_{3-\delta}$ to Double Perovskite $\text{LaBaCo}_2\text{O}_{6-\delta}$ Transition and Formation of Domain Textured Phases with Fast Oxygen Exchange Capability. Inorganic Chemistry, 2018, 57, 12409-12416.	4.0	10

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19	Thermoelectric Behavior of BaZr _{0.9} Y _{0.1} O ₃ Proton Conducting Electrolyte Membranes, 2019, 9, 120.	3.0	9
20	Red-Ox Energetics and Holes Trapping in Yttrium-Substituted Barium Zirconate BaZr _{0.9} Y _{0.1} O _{2.95} . Journal of the Electrochemical Society, 2019, 166, F232-F238.	2.9	8
21	Redox Thermochemistry, Thermodynamics, and Solar Energy Conversion and Storage Capability of Some Double Perovskite Cobaltites. Inorganic Chemistry, 2021, 60, 18141-18153.	4.0	8
22	Hydration-induced chemical expansion of BaCa(1+y)/3Nb(2a~y)/3O3~f~a~TMxH2O (BCN) and other proton-conducting perovskite oxides. Solid State Ionics, 2020, 358, 115516.	2.7	6
23	Defect structure and redox energetics of NdBaCo2O6-f. Solid State Ionics, 2021, 361, 115549.	2.7	6
24	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride. Thermochemica Acta, 2017, 658, 24-30.	2.7	5
25	Vapor pressure of methylammonium halides. Part II: Vapor pressure and standard entropy of methylammonium bromide. Thermochemica Acta, 2019, 674, 58-62.	2.7	5
26	Crystal structure and high-temperature thermodynamic properties of Pr-doped barium zirconates, BaZr1~Pr O3 (x = 0.1, 0.5). Journal of Physics and Chemistry of Solids, 2020, 147, 109613.	4.0	5
27	Crucial Role of Water in the Mechanochemistry of CsPbI3 and Other ABX3 Halides. Chemistry - A European Journal, 2020, 26, 12549-12552.	3.3	5
28	Redox energetics and enthalpy increments of GdBaCo2O6-f. Thermochemica Acta, 2020, 686, 178562.	2.7	5
29	Thermodynamics of formation of solid solutions between BaZrO3 and BaPrO3. Chimica Techno Acta, 2020, 7, 42-50.	0.7	5
30	Thermodynamic stability, oxygen content, defect structure and related properties of YBaCo4~xZnxO7~f (x = 0~3) oxides. Solid State Ionics, 2017, 309, 92-99.	2.7	4
31	Defect chemistry and high-temperature thermodynamics of PrBaCo2O6-f. Journal of Chemical Thermodynamics, 2021, 161, 106523.	2.0	4
32	PrBaCo2O6-f - Ce0.8Sm0.2O1.9 Composite Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. ECS Transactions, 2015, 68, 965-976.	0.5	2
33	Thermodynamics of BaCa(1~+~y)/3Nb(2~y)/3O3~f~a~TMxH2O proton-conducting perovskites. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1989-2001.	3.6	2
34	The crystal structure and oxygen nonstoichiometry of layered perovskites GdBaCo2 ~ x Fe x O6 ~ f (x) Tj ETQq0 0,4 rgBT /Qverlock 10	0.4	1
35	Phase equilibria in the YFeO3 ~ YfioO3 system in air. Chimica Techno Acta, 2021, 8, 20218108.	0.7	1
36	Defect-Induced Properties and Thermodynamics of La0.5Ba0.5CoO3~f. Journal of the Electrochemical Society, 2022, 169, 024511.	2.9	1