

Andrey Yu Zuev

List of Publications by Year in descending order

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82
papers

1,456
citations

361413

20
h-index

377865

34
g-index

86
all docs

86
docs citations

86
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect-Induced Properties and Thermodynamics of $\text{La}_{0.5}\text{Ba}_{0.5}\text{CoO}_{3-\delta}$. Journal of the Electrochemical Society, 2022, 169, 024511.	2.9	1
2	Chemical lattice strain in nonstoichiometric oxides: an overview. Journal of Materials Chemistry A, 2022, 10, 6351-6375.	10.3	25
3	Defect structure and redox energetics of $\text{NdBaCo}_2\text{O}_{6-\delta}$. Solid State Ionics, 2021, 361, 115549.	2.7	6
4	Defect structure and thermochemistry of $\text{YBaCo}_2\text{O}_{6-\delta}$. Thermochimica Acta, 2021, 698, 178886.	2.7	3
5	Defect chemistry and high-temperature thermodynamics of $\text{PrBaCo}_2\text{O}_{6-\delta}$. Journal of Chemical Thermodynamics, 2021, 161, 106523.	2.0	4
6	Redox Thermochemistry, Thermodynamics, and Solar Energy Conversion and Storage Capability of Some Double Perovskite Cobaltites. Inorganic Chemistry, 2021, 60, 18141-18153.	4.0	8
7	Crystal structure and high-temperature thermodynamic properties of Pr-doped barium zirconates, $\text{BaZr}_{1-x}\text{Pr}_x\text{O}_3$ ($x = 0.1, 0.5$). Journal of Physics and Chemistry of Solids, 2020, 147, 109613.	4.0	5
8	Hydration-induced chemical expansion of $\text{BaCa}_{1+y}\text{Nb}_2\text{O}_{10-x}\text{H}_2\text{O}$ (BCN) and other proton-conducting perovskite oxides. Solid State Ionics, 2020, 358, 115516.	2.7	6
9	Crucial Role of Water in the Mechanochemistry of CsPb_3 and Other ABX_3 Halides. Chemistry - A European Journal, 2020, 26, 12549-12552.	3.3	5
10	New phase transition in CsPbBr_3 . Materials Letters, 2020, 278, 128458.	2.6	20
11	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
12	High-temperature heat-flux inverse drop calorimeter. Thermochimica Acta, 2020, 694, 178802.	2.7	2
13	Thermodynamics of $\text{BaCa}_{1-x}\text{Nb}_2\text{O}_{10-x}\text{H}_2\text{O}$ proton-conducting perovskites. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1989-2001.	3.6	2
14	Redox energetics and enthalpy increments of $\text{GdBaCo}_2\text{O}_{6-\delta}$. Thermochimica Acta, 2020, 686, 178562.	2.7	5
15	Formation Thermodynamics, Stability, and Decomposition Pathways of CsPbX_3 ($X = \text{Cl, Br}$). Journal of Chemical Thermodynamics, 2020, 143, 106059.	1.0	26
16	Thermodynamic characteristics of Li_2MoO_4 , $\text{Li}_2\text{W}_0.85\text{Mo}_0.15\text{O}_4$ single crystals and stability direction for alkali molybdates. Journal of Chemical Thermodynamics, 2020, 143, 106059.	2.0	24
17	Thermodynamics of formation of solid solutions between BaZrO_3 and BaPrO_3 . Chimica Techno Acta, 2020, 7, 42-50.	0.7	5
18	Enthalpy increments and redox thermodynamics of SrFeO_3 . Journal of Materials Research, 2019, 34, 3288-3295.	2.6	11

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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	PrBaCo ₂ O ₆ -Ce _{0.8} Sm _{0.2} O _{1.9} Composite Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells: Stability and Cation Interdiffusion. Energies, 2019, 12, 417.	3.1	17
21	Double perovskites REBaCo _{2-x} M _x O ₆ (RE=La, Pr, Nd, Eu, Gd, Y; M=Ca, Sr, Ba) Tj ETQq _{1.1} 0.784314 rgB	1.9	14
22	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
23	Vapor pressure of methylammonium halides. Part II: Vapor pressure and standard entropy of methylammonium bromide. Thermochimica Acta, 2019, 674, 58-62.	2.7	5
24	Interplay between chemical strain, defects and ordering in Sr _{1-x} La _x FeO ₃ materials. Acta Materialia, 2019, 162, 33-45.	7.9	13
25	Hydration thermodynamics of proton-conducting perovskite Ba ₄ Ca ₂ Nb ₂ O ₁₁ . Materials Letters, 2019, 235, 97-100.	2.6	4
26	Thermodynamics of formation of hybrid perovskite-type methylammonium lead halides. Journal of Chemical Thermodynamics, 2018, 116, 253-258.	2.0	54
27	High-Resolution Thermochemical Study of Phase Stability and Rapid Oxygen Incorporation in YBaCo _{4-x} Zn _x O _{7+δ} 114-Cobaltites. Journal of Physical Chemistry A, 2018, 122, 9597-9604.	2.5	3
28	In Situ and Ex Situ Study of Cubic La _{0.5} Ba _{0.5} CoO ₃ to Double Perovskite LaBaCo ₂ O ₆ Transition and Formation of Domain Textured Phases with Fast Oxygen Exchange Capability. Inorganic Chemistry, 2018, 57, 12409-12416.	4.0	10
29	Oxygen Content and Thermodynamic Stability of YBaCo ₂ O ₆ Double Perovskite. Advances in Materials Science and Engineering, 2018, 2018, 1-6.	1.8	9
30	Preparation, oxygen nonstoichiometry and defect structure of double perovskite LaBaCo ₂ O ₆ . Materials Letters, 2018, 229, 324-326.	2.6	14
31	Thermodynamics of Sr ₂ NiMoO ₆ and Sr ₂ CoMoO ₆ and their stability under reducing conditions. Physical Chemistry Chemical Physics, 2018, 20, 20108-20116.	2.8	18
32	Conventional Methods for Measurements of Chemo-Mechanical Coupling. Kluwer International Series in Electronic Materials: Science and Technology, 2017, , 5-33.	0.5	4
33	Oxygen isotope exchange and diffusion in LnBaCo ₂ O ₆ (Ln = Pr, Sm, Gd) with double perovskite structure. Solid State Ionics, 2017, 304, 96-106.	2.7	41
34	Thermodynamic stability, oxygen content, defect structure and related properties of YBaCo _{4-x} Zn _x O _{7+δ} (x = 0-3) oxides. Solid State Ionics, 2017, 309, 92-99.	2.7	4
35	Vapor pressure of methylammonium halides. Part I: Setup verification and vapor pressure of methylammonium chloride. Thermochimica Acta, 2017, 658, 24-30.	2.7	5
36	Synthesis, Single Crystal Growth, and Properties of Cobalt Deficient Double Perovskite EuBaCo _{2-x} O ₆ (x = 0-0.1). Journal of Chemistry, 2017, 1-5.	1.9	5

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37	Mechano-Chemical Coupling in Double Perovskites as Energy Related Materials. ECS Transactions, 2016, 72, 21-35.	0.5	12
38	The defect structure and chemical lattice strain of the double perovskites Sr ₂ BMoO ₆ (B = Mg, Fe). Dalton Transactions, 2016, 45, 12906-12913.	3.3	12
39	Oxygen content, cobalt oxide exsolution and defect structure of the double perovskite PrBaCo ₂ O ₆ . Journal of Materials Chemistry A, 2016, 4, 1962-1969.	10.3	25
40	Oxygen content and thermodynamic stability of YBaCo ₄ O ₇ . Solid State Ionics, 2015, 278, 1-4.	2.7	7
41	Oxygen nonstoichiometry, defect structure and related properties of LaNi _{0.6} Fe _{0.4} O ₃ . Journal of Materials Chemistry A, 2015, 3, 6028-6037.	10.3	21
42	Gd- and Pr-based double perovskite cobaltites as oxygen electrodes for proton ceramic fuel cells and electrolyser cells. Solid State Ionics, 2015, 278, 120-132.	2.7	136
43	PrBaCo ₂ O ₆ - Ce _{0.8} Sm _{0.2} O _{1.9} Composite Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. ECS Transactions, 2015, 68, 965-976.	0.5	2
44	Defect structure and related properties of mayenite Ca ₁₂ Al ₁₄ O ₃₃ . Solid State Ionics, 2015, 276, 142-148.	2.7	14
45	Oxygen Nonstoichiometry, Defect Structure, Thermal and Chemical Expansion of Pseudo-Cubic La _{0.8} Sr _{0.2} Co _{0.9} Ni _{0.1} O ₃ and Double Perovskite GdBaCo ₂ O ₆ . Journal of the Electrochemical Society, 2014, 161, F3032-F3038.	2.9	13
46	Oxygen content, crystal structure and chemical expansion of PrBaCo _{2-x} Fe _x O ₆ double perovskites. Dalton Transactions, 2014, 43, 11862-11866.	3.3	26
47	Oxygen content and thermodynamics of formation of double perovskites REBaCo ₂ O ₆ (RE = Gd, Pr). Thermochimica Acta, 2014, 578, 28-32.	2.7	12
48	Defect structure and defect-induced expansion of doped perovskite La _{0.7} Sr _{0.3} Co _{0.9} Fe _{0.1} O ₃ . International Journal of Hydrogen Energy, 2014, 39, 21553-21560.	7.1	14
49	Oxygen nonstoichiometry, defect structure and oxygen diffusion in the double perovskite GdBaCo ₂ O ₆ . Dalton Transactions, 2014, 43, 15937-15943.	3.3	17
50	Crystal structure and oxygen content of the double perovskites GdBaCo _{2-x} Fe _x O ₆ . Journal of Solid State Chemistry, 2013, 199, 154-159.	2.9	22
51	Investigation of GdBaCo _{2-x} Fe _x O ₆ (x = 0, 0.2) as Ce _{0.8} Sm _{0.2} O ₂ composite cathodes for intermediate temperature solid oxide fuel cells. Journal of Power Sources, 2013, 243, 403-408.	7.8	23
52	Defect Structure and Defect-Induced Expansion of MIEC Oxides - Doped Lanthanum Cobaltites. ECS Transactions, 2012, 45, 63-73.	0.5	0
53	Oxygen nonstoichiometry, crystal and defect structure of the double perovskite GdBaCo _{1.8} Fe _{0.2} O ₆ . Solid State Ionics, 2012, 218, 13-17.	2.7	12
54	Defect Structure and Defect-Induced Expansion of MIEC Oxides: Doped Lanthanum Cobaltites. Journal of the Electrochemical Society, 2012, 159, F594-F599.	2.9	25

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55	Defect structure and charge transfer in the double perovskite $\text{GdBaCo}_2\text{O}_{6-x}$. <i>Solid State Ionics</i> , 2011, 192, 215-219.	2.7	19
56	Defect structure and oxide ion transport in Sr- and Cr-doped LaCoO_3 . <i>Solid State Ionics</i> , 2011, 192, 220-224.	2.7	6
57	Thermodynamics of formation of double perovskites $\text{GdBaCo}_2\text{M}_x\text{O}_{6-x}$ (M = Fe, Mn; x = 0, 0.2). <i>Thermochimica Acta</i> , 2011, 519, 12-15.	2.7	22
58	Oxygen Nonstoichiometry and Electrochemical Properties of $\text{GdBaCo}_{2-x}\text{Fe}_x\text{O}_{6-x}$ Double Perovskite Cathodes. <i>Journal of Fuel Cell Science and Technology</i> , 2011, 8, .	0.8	5
59	Oxygen nonstoichiometry and defect structure of the double perovskite $\text{GdBaCo}_2\text{O}_{6-x}$. <i>Solid State Ionics</i> , 2010, 180, 1620-1625.	2.7	66
60	Oxygen nonstoichiometry, defect structure and defect-induced expansion of undoped perovskite LaMnO_3 . <i>Solid State Ionics</i> , 2010, 181, 557-563.	2.7	59
61	Defect structure and defect-induced expansion of undoped oxygen deficient perovskite LaCoO_3 . <i>Solid State Ionics</i> , 2008, 179, 1876-1879.	2.7	53
62	The diffusion of oxygen and ion transport in lanthanum cobaltite LaCoO_3 . <i>Russian Journal of Physical Chemistry A</i> , 2008, 82, 855-859.	0.6	4
63	Oxide ion transport in undoped and Cr-doped LaCoO_3 . <i>Solid State Ionics</i> , 2007, 178, 1458-1462.	2.7	12
64	The oxygen nonstoichiometry and defect structure of unsubstituted LaCoO_3 cobaltite. <i>Russian Journal of Physical Chemistry A</i> , 2007, 81, 73-77.	0.6	3
65	Oxygen nonstoichiometry and defect structure of undoped and doped lanthanum cobaltites. <i>Journal of Materials Science</i> , 2007, 42, 1901-1908.	3.7	26
66	Defect structure and charge transfer in undoped and doped lanthanum cobaltites. <i>Journal of Materials Science</i> , 2007, 42, 1909-1914.	3.7	14
67	Defects in doped perovskite-like lanthanum cobaltite crystals $\text{La}_{1-x}\text{Sr}_x\text{Co}_{1-y}\text{Me}_y\text{O}_{3-x}$ (Me = Cu and Tj) $\text{ETQq}_1 1 0.784314 \text{ rgBT}$	0.6	1
68	Equilibrium of point defects and charge transfer in lanthanum cobaltite. <i>Russian Journal of Physical Chemistry A</i> , 2006, 80, S128-S133.	0.6	4
69	Thermodynamics, defect structure, and charge transfer in doped lanthanum cobaltites: an overview. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 517-537.	2.5	69
70	Oxygen vacancy formation and defect structure of Cu-doped lanthanum chromite LaCrCuAlO . <i>Solid State Ionics</i> , 2005, 176, 417-421.	2.7	6
71	Defect formation and mechanical stability of perovskites based on LaCrO_3 for solid oxide fuel cells (SOFC). <i>Journal of the European Ceramic Society</i> , 2003, 23, 3009-3020.	5.7	80
72	Defect structure and isothermal expansion of A-site and B-site substituted lanthanum chromites. <i>Solid State Ionics</i> , 2002, 147, 1-11.	2.7	52

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73	Crystal and defect structure of the mixed oxides $\text{LaMn}_{1-x}\text{Cu}_x\text{O}_{3-y}$ ($0 \leq x \leq 0.4$). <i>Solid State Ionics</i> , 2000, 129, 179-188.	2.7	18
74	Oxygen Nonstoichiometry of the Copper-Substituted Lanthanum Cobaltite $\text{LaCo}_{0.9}\text{Cu}_{0.1}\text{O}_{3-\delta}$. <i>ECS Proceedings Volumes</i> , 1999, 1999-19, 424-431.	0.1	1
75	Crystal and Defect Structure of $\text{Nd}_{1.9}\text{Ce}_{0.1}\text{CuO}_{4-y}$. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1037-1044.	3.8	11
76	Relation between T_c and the defect structure of neodymium cerium cuprate $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_{4-y}$. <i>Physics of the Solid State</i> , 1998, 40, 157-162.	0.6	9
77	The phase diagram of the bismuth-calcium oxide system. <i>Materials Research Bulletin</i> , 1994, 29, 1233-1238.	5.2	13
78	The Bi_2O_3 - SrO phase diagram. <i>Journal of Phase Equilibria and Diffusion</i> , 1994, 15, 573-576.	0.3	9
79	Phase diagram of the Bi-Sr-Cu-O system. <i>Journal of Materials Chemistry</i> , 1994, 4, 1871-1873.	6.7	2
80	Oxygen nonstoichiometry of lanthanum strontium cuprates $\text{La}_{2-x}\text{Sr}_x\text{CuO}_{4-\delta}$. <i>Journal of Physics and Chemistry of Solids</i> , 1991, 52, 841-844.	4.0	5
81	Thermodynamic stability of ternary oxides in Ln-M-O ($\text{Ln} = \text{La, Pr, Nd}$; $\text{M} = \text{Co, Ni, Cu}$) systems. <i>Journal of Solid State Chemistry</i> , 1988, 77, 1-14.	2.9	82
82	Defect Equilibria in Solids and Related Properties: An Introduction. , 0, , 43-78.		3