

# Boris V Politov

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Advanced electrochemical properties of Pr <sub>0.9</sub> Y <sub>0.1</sub> BaCo <sub>1.8</sub> Ni <sub>0.2</sub> O <sub>6</sub> –Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>1.9</sub> composite as cathode material for IT-SOFCs. Journal of Alloys and Compounds, 2019, 779, 712-719.	5.5	31
2	High-temperature defect thermodynamics of nickel substituted double-perovskite cobaltite PrBaCo <sub>2</sub> –Ni O <sub>6</sub> (x=0.2). Journal of Alloys and Compounds, 2017, 727, 778-784.	5.5	20
3	Improved stability and defect structure of yttrium doped cobaltite PrBaCo <sub>2</sub> O <sub>6</sub> . Solid State Ionics, 2016, 295, 90-95.	2.7	18
4	Fabrication and Testing of a Tubular Thermoelectric Module Based on Oxide Elements. Journal of Electronic Materials, 2018, 47, 2808-2816.	2.2	14
5	Thermodynamic analysis of defect equilibration in double perovskites based on PrBaCo <sub>2</sub> O <sub>6</sub> cobaltite. Journal of Solid State Chemistry, 2017, 249, 108-113.	2.9	13
6	Improved structural stability, electron transport and defect formation in PrBaCo <sub>2</sub> –Al O <sub>6</sub> . Journal of Alloys and Compounds, 2018, 767, 1041-1047.	5.5	13
7	Structural stability, defects and competitive oxygen migration in Pr <sub>1-x</sub> Y <sub>x</sub> BaCo <sub>2</sub> O <sub>6</sub> . Solid State Ionics, 2020, 347, 115230.	2.7	12
8	Electrochemical performance and superior CO <sub>2</sub> endurance of PrBaCo <sub>2</sub> O <sub>6</sub> –PrBaCoTaO <sub>6</sub> composite cathode for IT-SOFCs. Electrochimica Acta, 2021, 365, 137372.	5.2	12
9	Specific interrelations of magnetic, thermodynamic and structural properties in highly non-stoichiometric PrBaMnFeO <sub>6</sub> double perovskite. Journal of Alloys and Compounds, 2021, 886, 161133.	5.5	11
10	Functional properties and electrochemical performance of dual-phase Pr <sub>0.9</sub> Y <sub>0.1</sub> BaCo <sub>2</sub> O <sub>6</sub> –Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>1.9</sub> composite cathodes. Journal of Solid State Electrochemistry, 2018, 22, 1863-1869.	2.5	9
11	The interplay of oxygen non-stoichiometry and defects in Ga-doped layered cobaltites. Solid State Ionics, 2019, 339, 115002.	2.7	9
12	High temperature magnetic and transport properties of PrBaCo <sub>2</sub> O <sub>6</sub> cobaltite: Spin blockade evidence. Journal of Magnetism and Magnetic Materials, 2019, 469, 259-263.	2.3	8
13	Phase stability and thermodynamic properties of PrBaMn <sub>2</sub> O <sub>6</sub> . Journal of Solid State Chemistry, 2020, 287, 121382.	2.9	8
14	Crystal structure and cation ordering in novel perovskite type oxides PrBaCoTa(Nb)O <sub>6</sub> . Journal of Alloys and Compounds, 2020, 824, 153909.	5.5	6
15	Defect formation peculiarities and redox properties of novel oxygen carrier material LaCu <sub>0.5</sub> Ti <sub>0.5</sub> O <sub>3</sub> ± at elevated temperatures. Solid State Sciences, 2020, 110, 106480.	3.2	5
16	High-temperature polaronic transport in PrBaCoTa(Nb)O <sub>6</sub> perovskite-like phases. Journal of Physics and Chemistry of Solids, 2020, 147, 109645.	4.0	4
17	Oxygen conductivity in a double-well model for ion jumps in layered perovskite-related oxides. Solid State Ionics, 2018, 323, 1-4.	2.7	3
18	Tremendous oxygen capacity, defect equilibration and thermodynamic stability of PrBaMn <sub>2-x</sub> CoxO <sub>6</sub> solid solutions. Materials Research Bulletin, 2022, 149, 111717.	5.2	3