Zahar S Vinokurov

List of Publications by Year
in descending order

37 papers	380 citations	1040056 9 h-index	839539 18 g-index
37 all docs	37 docs citations	37 times ranked	418 citing authors

#	Article	IF	Citations
1	Reduction of mixed Mnâ€“Zr oxides: in situ XPS and XRD studies. Dalton Transactions, 2015, 44, 15499-15507.	3.3	92
2	Design of functionally graded multilayer thermal barrier coatings for gas turbine application. Surface and Coatings Technology, 2016, 295, 20-28.	4.8	39
3	The origin of self-sustained reaction-rate oscillations in the oxidation of methane over nickel: an operando XRD and mass spectrometry study. Catalysis Science and Technology, 2017, 7, 1646-1649.	4.1	25
4	Transport properties of Ca-doped Ln2NiO4 for intermediate temperature solid oxide fuel cells cathodes and catalytic membranes for hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 13625-13642.	7.1	25
5	The Influence of Cu and Al Additives on Reduction of Iron(III) Oxide: In Situ XRD and XANES Study. Inorganic Chemistry, 2019, 58, 4842-4850.	4.0	20
6	Synthesis and Staging of the Phase Formation for Strontium Ferrites in Thermal and Radiation-Thermal Reactions. IOP Conference Series: Materials Science and Engineering, 2015, 81, 012122.	0.6	19
7	Tailoring the structural, thermal and transport properties of Pr2NiO4+Î´ through Ca-doping strategy. Solid State Ionics, 2019, 333, 30-37.	2.7	13
8	Advanced Materials for Solid Oxide Fuel Cells and Membrane Catalytic Reactors. , 2019, , 435-514.		13
9	Synthesis and characterization of mixed manganese-gallium oxides Mn3-xGaxO4 (xÂ=Â1â€“2) with the spinel structure. Journal of Alloys and Compounds, 2017, 725, 496-503.	5.5	11
10	Correlation between Structural and Transport Properties of Ca-Doped La Nickelates and Their Electrochemical Performance. Crystals, 2021, 11, 297.	2.2	11
11	Application of SR Methods for the Study of Nanocomposite Materials for Hydrogen Energy. Physics Procedia, 2016, 84, 397-406.	1.2	9
12	Experimental Study and Mathematical Modeling of Self-Sustained Kinetic Oscillations in Catalytic Oxidation of Methane over Nickel. Journal of Physical Chemistry A, 2017, 121, 6874-6886.	2.5	8
13	Self-sustained oscillations in oxidation of methane over palladium: the nature of â€œlow-activeâ€•and â€œhighly activeâ€•states. Catalysis Science and Technology, 2021, 11, 4392-4397.	4.1	8
14	Application of Synchrotron Radiation for In Situ XRD Investigation of Zirconium Hydrides Formation at Gas-phase Hydrogenation. Physics Procedia, 2016, 84, 342-348.	1.2	7
15	The Formation of Mn-Ce Oxide Catalysts for CO Oxidation by Oxalate Route: The Role of Manganese Content. Nanomaterials, 2021, 11, 988.	4.1	7
16	In situ investigation of structural changes in perovskite-like oxides based on lanthanum ferrite in media with different partial pressures of oxygen. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 138-141.	0.6	6
17	Protonic Mobility of Neodymium Tungstate. Journal of Electrochemical Energy Conversion and Storage, 2017, 14, .	2.1	6
18	Oxidation of ASD-4 Powder Modified by V2O5. Combustion, Explosion and Shock Waves, 2018, 54, 58-63.	0.8	6

#	Article	IF	Citations
19	CuFeAl-composite catalysts of oxidation of gasification products of solid fuels: In situ XAS and XRD study. Radiation Physics and Chemistry, 2020, 175, 108071.	2.8	6
20	The Reasons for Nonlinear Phenomena in Oxidation of Methane over Nickel. Kinetics and Catalysis, 2018, 59, 810-819.	1.0	5
21	Influence of CO oxidation conditions on the Mn-Zr oxide catalyst structure: In situ XRD and MS study. Materials Letters, 2020, 258, 126768.	2.6	5
22	High-Temperature X-Ray Diffraction Investigation of the Decomposition Process in Manganese-Gallium Spinel Mn1.5Ga1.5O4. Journal of Structural Chemistry, 2018, 59, 370-376.	1.0	4
23	Chemical and Phase Transformation in W-Mn-Containing Catalysts for Oxidative Coupling of Methane. Russian Journal of Physical Chemistry A, 2019, 93, 421-430.	0.6	4
24	Unusual Lattice Parameters Behavior for La1.9Ca0.1NiO4+Î´ at the Temperatures below Oxygen Loss. Crystals, 2022, 12, 344.	2.2	4
25	In situX-ray diffraction investigation of nitride coatings at high-temperature oxidation. Journal of Physics: Conference Series, 2016, 669, 012034.	0.4	3
26	In situ powder X-ray diffraction study of the process of NiMoO4â€“SiO2 reduction with hydrogen. Journal of Structural Chemistry, 2016, 57, 955-961.	1.0	3
27	In Situ Investigation of Thermo-stimulated Decay of Hydrides of Titanium and Zirconium by Means of X-ray Diffraction of Synchrotron Radiation. Physics Procedia, 2016, 84, 337-341.	1.2	3
28	In situ synchrotron Ð¥-ray diffraction study of heat-induced structural changes in TiOy/HAp nanocomposites. Ceramics International, 2022, 48, 2843-2852.	4.8	3
29	The activation of MnOx-ZrO2 catalyst in CO oxidation: Operando XRD study. Materials Letters, 2022, 315, 131961.	2.6	3
30	Crystal phase structure investigation in the process of radiation-thermal transformations in systems SrO-Fe2O3, SrCO3-Fe2O3 (perovskite) and garnet Y2O3-Fe2O3. IOP Conference Series: Materials Science and Engineering, 2016, 110, 012110.	0.6	2
31	Temperature Hysteresis in the Reaction of Methane Oxidation on a Palladium-Doped Manganese Hexaaluminate Catalyst. Kinetics and Catalysis, 2018, 59, 70-82.	1.0	2
32	Effect of Heating Rate of the Original ASD-4 Powder and the ASD-4 Powder Modified by the V2O5 Oxide on the Phase Composition of Oxidation Products. Combustion, Explosion and Shock Waves, 2019, 55, 289-294.	0.8	2
33	Self-sustained oscillations in oxidation of methane over palladium: Experimental study and mathematical modeling. Journal of Chemical Physics, 2022, 157, .	3.0	2
34	In situ X-ray investigation of coatings based on titanium nitride upon high-temperature oxidation in air. Journal of Surface Investigation, 2016, 10, 1067-1071.	0.5	1
35	STUDY OF THERMAL CO-DECOMPOSITION OF MANGANESE AND CERIUM OXALATES IN AIR AND IN INERT MEDIA. Journal of Structural Chemistry, 2021, 62, 467-480.	1.0	1
36	Influence of the Amount of Fe2O3Modifier on the Oxidation Rate of ASD-4 Micron-Sized Powder. Combustion, Explosion and Shock Waves, 2020, 56, 156-162.	0.8	1

#	Article	IF	Citations
37	OPERANDO X-RAY DIFFRACTION ANALYSIS OF THE MnOxâ€“ZrO2 CATALYST DURING OXIDATION OF PROPANE. Journal of Structural Chemistry, 2022, 63, 885-894.	1.0	1