Vladimir O Stoyanovskii

List of Publications by Year
in descending order

54	814	471509 17	552781 26
papers	citations	h-index	g-index

54	54	54	555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterization of active sites of Pd/Al2O3 model catalysts with low Pd content by luminescence, EPR and ethane hydrogenolysis. Applied Catalysis B: Environmental, 2011, 103, 397-403.	20.2	63
2	Stabilization of active sites in alloyed Pdâ€“Rh catalysts on Î³-Al2O3 support. Catalysis Today, 2014, 238, 80-86.	4.4	49
3	Effect of metal-metal and metal-support interaction on activity and stability of Pd-Rh/alumina in CO oxidation. Catalysis Today, 2017, 293-294, 73-81.	4.4	48
4	Catalytic Purification of Exhaust Gases Over Pdâ€“Rh Alloy Catalysts. Topics in Catalysis, 2013, 56, 1008-1014.	2.8	47
5	Characterization of Rh/Al2O3 catalysts after calcination at high temperatures under oxidizing conditions by luminescence spectroscopy and catalytic hydrogenolysis. Applied Catalysis B: Environmental, 2009, 90, 141-146.	20.2	45
6	Putative mechanism of the sugar formation on prebiotic Earth initiated by UV-radiation. Advances in Space Research, 2005, 36, 214-219.	2.6	35
7	Catalytic conversion of 1,2-dichloroethane over Ni-Pd system into filamentous carbon material. Catalysis Today, 2017, 293-294, 23-32.	4.4	32
8	The role of chemisorbed water in formation and stabilization of active sites on Pd/Alumina oxidation catalysts. Catalysis Today, 2018, 307, 102-110.	4.4	29
9	Effect of Alumina Phase Transformation on Stability of Low-Loaded Pd-Rh Catalysts for CO Oxidation. Topics in Catalysis, 2017, 60, 152-161.	2.8	25
10	Effect of metal ratio in alumina-supported Pd-Rh nanoalloys on its performance in three way catalysis. Journal of Alloys and Compounds, 2018, 749, 155-162.	5.5	25
11	Laser-induced luminescence of model Fe/Al2O3 and Cr/Al2O3 catalysts. Kinetics and Catalysis, 2008, 49, 291-298.	1.0	23
12	Effect of Mo on the catalytic activity of Ni-based self-organizing catalysts for processing of dichloroethane into segmented carbon nanomaterials. Heliyon, 2019, 5, e02428.	3.2	22
13	Nanocrystalline carbon coated alumina with enhanced phase stability at high temperatures. RSC Advances, 2017, 7, 54852-54860.	3.6	19
14	Stabilizing effect of the carbon shell on phase transformation of the nanocrystalline alumina particles. Ceramics International, 2018, 44, 4801-4806.	4.8	19
15	Peculiarity of Rh bulk diffusion in La-doped alumina and its impact on CO oxidation over Rh/Al2O3. Catalysis Communications, 2017, 97, 18-22.	3.3	18
16	Characterization and study on the thermal aging behavior of palladiumâ€“alumina catalysts. Journal of Thermal Analysis and Calorimetry, 2017, 130, 1865-1874.	3.6	17
17	Prospect of Using Nanoalloys of Partly Miscible Rhodium and Palladium in Three-Way Catalysis. Topics in Catalysis, 2019, 62, 305-314.	2.8	17
18	Laser-induced luminescence associated with surface hydroxide groups in Al2O3. Kinetics and Catalysis, 2009, 50, 450-455.	1.0	16

#	Article	IF	Citations
19	The peculiarities of Auâ€“Pt alloy nanoparticles formation during the decomposition of double complex salts. Journal of Alloys and Compounds, 2018, 740, 935-940.	5.5	16
20	Synthesis of binary Coâ€“Mgâ€“O oxide system and study of its behavior in reduction/oxidation cycling. International Journal of Hydrogen Energy, 2019, 44, 20690-20699.	7.1	16
21	Space chemical reactor of protoplanetary disk. Advances in Space Research, 2002, 30, 1461-1467.	2.6	14
22	Carbon nanoreactor for the synthesis of nanocrystalline high-temperature oxide materials. Nanotechnologies in Russia, 2014, 9, 700-706.	0.7	13
23	Production of nanomaterials by vaporizing ceramic targets irradiated by a moderate-power continuous-wave CO2 laser. Journal of Applied Mechanics and Technical Physics, 2007, 48, 292-302.	0.5	12
24	Purification of gasoline exhaust gases using bimetallic Pdâ€“Rh/Î´-Al2O3 catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2019, 127, 137-148.	1.7	12
25	Optical spectroscopy of Rh3+ ions in the lanthanum-aluminum oxide systems. Journal of Luminescence, 2018, 204, 609-617.	3.1	11
26	Interaction of Pd and Rh with ZrCeYLaO2 support during thermal aging and its effect on the CO oxidation activity. Reaction Kinetics, Mechanisms and Catalysis, 2020, 129, 117-133.	1.7	11
27	Effect of La Addition on the Performance of Three-Way Catalysts Containing Palladium and Rhodium. Topics in Catalysis, 2020, 63, 152-165.	2.8	11
28	Facile synthesis of triple Ni-Mo-W alloys and their catalytic properties in chemical vapor deposition of chlorinated hydrocarbons. Journal of Alloys and Compounds, 2021, 866, 158778.	5.5	11
29	Study on reduction behavior of two-component Fe Mg O oxide system prepared via a sol-gel technique. International Journal of Hydrogen Energy, 2017, 42, 30543-30549.	7.1	10
30	Synthesis and Study of Bimetallic Pd-Rh System Supported on Zirconia-Doped Alumina as a Component of Three-way Catalysts. Emission Control Science and Technology, 2019, 5, 363-377.	1.5	10
31	Optical Spectroscopy Methods in the Estimation of the Thermal Stability of Bimetallic Pdâ€“Rh/Al2O3 Three-Way Catalysts. Topics in Catalysis, 2019, 62, 296-304.	2.8	10
32	The Attractiveness of the Ternary Rh-Pd-Pt Alloys for CO Oxidation Process. Processes, 2020, 8, 928.	2.8	10
33	Preparation of the Nanostructured Ni-Mg-O Oxide System by a Solâ€“Gel Technique at Varied pH. Nanomaterials, 2022, 12, 952.	4.1	9
34	Luminescence of Al2O3 crystal modifications excited by the ArF excimer laser. Kinetics and Catalysis, 2005, 46, 260-268.	1.0	8
35	Effect of carbon coating on spontaneous C12A7 whisker formation. Applied Surface Science, 2018, 444, 336-338.	6.1	8
36	One-pot functionalization of catalytically derived carbon nanostructures with heteroatoms for toxic-free environment. Applied Surface Science, 2022, 590, 153055.	6.1	7

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37	Water purification from chlorobenzenes using heteroatom-functionalized carbon nanofibers produced on self-organizing Ni-Pd catalyst. Journal of Environmental Chemical Engineering, 2022, 10, 107873.	6.7	7
38	Purification of exhaust gases from gasoline engine using adsorption-catalytic systems. Part 1: trapping of hydrocarbons by Ag-modified ZSM-5. Reaction Kinetics, Mechanisms and Catalysis, 2019, 127, 945-959.	1.7	6
39	Effect of carbon coating on the thermal stability of nanocrystalline Ï‡-Al2O3. Materials Chemistry and Physics, 2020, 240, 122135.	4.0	6
40	Adsorption of 1,2-Dichlorobenzene on a Carbon Nanomaterial Prepared by Decomposition of 1,2-Dichloroethane on Nickel Alloys. Russian Journal of Applied Chemistry, 2020, 93, 1873-1882.	0.5	6
41	Catalytic Properties of Bulk (1â€“x)Niâ€“xW Alloys in the Decomposition of 1,2-Dichloroethane with the Production of Carbon Nanomaterials. Kinetics and Catalysis, 2022, 63, 75-86.	1.0	6
42	Synthesis and Functionalization of Filamentous Carbon Material via Decomposition of 1,2-Dichlorethane over Self-Organizing Ni-Mo Catalyst. Materials Science Forum, 2019, 950, 180-184.	0.3	5
43	Effect of carbon shell on stabilization of single-phase lanthanum and praseodymium hexaaluminates prepared by a modified Pechini method. Ceramics International, 2020, 46, 29150-29159.	4.8	5
44	Scaling up the Process of Catalytic Decomposition of Chlorinated Hydrocarbons with the Formation of Carbon Nanostructures. Processes, 2022, 10, 506.	2.8	5
45	Transformation of alumina-supported Pt-Au alloyed nanoparticles into core-shell Pt@Au structures during high-temperature treatment. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	4
46	Optical spectroscopy of Pr3+-doped Î³-BiB3O6 crystals. Optical Materials, 2013, 36, 509-515.	3.6	3
47	New Trends in Automotive Exhaust Gas Purification Materials: Improvement of the Support against Stability of the Active Components. Materials Science Forum, 0, 950, 185-189.	0.3	3
48	Synthesis of nitrogen doped segmented carbon nanofibers via metal dusting of Ni-Pd alloy. Catalysis Today, 2020, 388-389, 312-312.	4.4	3
49	Size effects on the formation of LaAlO3 phase in La-doped Î³-Al2O3 after hydrothermal treatment. Ceramics International, 2022, 48, 17449-17459.	4.8	3
50	Application of a charge-exchange process to optical diagnostics of the interaction of a laser-generated plasma with a dipole magnetic field. Journal of Applied Mechanics and Technical Physics, 1995, 36, 488-495.	0.5	2
51	Interaction between 193-nm pulsed laser radiation and Î±-alumina. Technical Physics, 2006, 51, 514-518.	0.7	1
52	The Features of a High-Temperature Synthesis of ZrO₂ in a Core-Shell ZrO₂@C Structure. Materials Science Forum, 0, 950, 133-137.	0.3	1
53	Laser-Induced Luminescence of Oxide Catalysts Excited by ArF Laser Radiation. Doklady Physical Chemistry, 2003, 392, 259-263.	0.9	0
54	Partial Miscibility of Metals as a Key for Improved Properties. Materials Science Forum, 2020, 998, 151-156.	0.3	0