

Valerii Bukhtiyarov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

275
papers

6,840
citations

44
h-index

68
g-index

289
ext. papers

7,482
ext. citations

3.4
avg, IF

5.77
L-index

#	Paper	IF	Citations
275	Mechanistic study of methanol oxidation on Pt(1 1 1) single crystal. <i>Applied Surface Science</i> , 2022 , 579, 152140	6.7	2
274	Supramolecular Effects and Systems in Catalysis. A Review. <i>Doklady Chemistry</i> , 2022 , 502, 1-27	0.8	
273	Investigation of concentration hysteresis in methane oxidation on bimetallic PtPd/Al ₂ O ₃ catalyst by in situ XPS and mass spectrometry. <i>Mendeleev Communications</i> , 2021 , 31, 635-637	1.9	0
272	SRPES and STM data for the model bimetallic Pd-In/HOPG catalysts: Effects of mild post-synthesis oxidative treatments. <i>Data in Brief</i> , 2021 , 39, 107626	1.2	
271	Bridging the Gap: From Homogeneous to Heterogeneous Parahydrogen-induced Hyperpolarization and Beyond. <i>ChemPhysChem</i> , 2021 , 22, 710-715	3.2	1
270	Heterogeneous H and C Parahydrogen-Induced Polarization of Acetate and Pyruvate Esters. <i>ChemPhysChem</i> , 2021 , 22, 1389-1396	3.2	2
269	Glyphosate: Methods of Synthesis. <i>Kinetics and Catalysis</i> , 2021 , 62, 331-341	1.5	1
268	Mechanistic in situ investigation of heterogeneous hydrogenation over Rh/TiO catalysts: selectivity, pairwise route and catalyst nature. <i>Faraday Discussions</i> , 2021 , 229, 161-175	3.6	8
267	Experimental and theoretical analysis of particle size effect in liquid-phase hydrogenation of diphenylacetylene. <i>Chemical Engineering Journal</i> , 2021 , 404, 126409	14.7	10
266	Three-way catalysis with bimetallic supported Pd-Au catalysts: Gold as a poison and as a promotor. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119614	21.8	4
265	Multilayer adsorption of methanol on platinum at low temperatures. <i>Applied Surface Science</i> , 2021 , 535, 147717	6.7	2
264	Heterogeneous Parahydrogen-Induced Polarization of Diethyl Ether for Magnetic Resonance Imaging Applications. <i>Chemistry - A European Journal</i> , 2021 , 27, 1316-1322	4.8	4
263	Deposition of [Ir(COD)(IMes)Cl] complex on the HOPG surface by means of evaporation in vacuum. <i>Surfaces and Interfaces</i> , 2021 , 25, 101176	4.1	
262	Room-Temperature Interaction of Nitrogen Dioxide with Rhodium Nanoparticles Supported on the Surface of Highly Oriented Pyrolytic Graphite (HOPG). <i>Kinetics and Catalysis</i> , 2021 , 62, 664-674	1.5	0
261	The effect of Pd(II) chloride complexes anchoring on the formation and properties of Pd/MgAlO _x catalysts. <i>Journal of Catalysis</i> , 2020 , 392, 108-118	7.3	2
260	Self-sustained Oscillations in Oxidation of Propane Over Nickel: Experimental Study and Mathematical Modelling. <i>Topics in Catalysis</i> , 2020 , 63, 33-48	2.3	1
259	Oscillatory Behavior in Oxidation of Propane Over Nickel Foil and Films. <i>Topics in Catalysis</i> , 2020 , 63, 24-32	2.3	4

258	Room Temperature Interaction of NO ₂ with Palladium Nanoparticles Supported on a Nonactivated Surface of Highly Oriented Pyrolytic Graphite (HOPG). <i>Kinetics and Catalysis</i> , 2020 , 61, 907-911	1.5	1
257	In Situ XPS and MS Study of Methane Oxidation on the PdPt/Al ₂ O ₃ Catalysts. <i>Topics in Catalysis</i> , 2020 , 63, 66-74	2.3	9
256	Spatially resolved NMR spectroscopy of heterogeneous gas phase hydrogenation of 1,3-butadiene with parahydrogen. <i>Catalysis Science and Technology</i> , 2020 , 10, 99-104	5.5	10
255	Effect of La Addition on the Performance of Three-Way Catalysts Containing Palladium and Rhodium. <i>Topics in Catalysis</i> , 2020 , 63, 152-165	2.3	5
254	Parahydrogen-Induced Polarization of Diethyl Ether Anesthetic. <i>Chemistry - A European Journal</i> , 2020 , 26, 13621-13626	4.8	9
253	Hydrogen cartridge material based on aluminum commercial alloys activated by Ga-In eutectic. <i>Materials Today: Proceedings</i> , 2020 , 25, 505-508	1.4	2
252	Deciphering the Nature of Ru Sites in Reductively Exsolved Oxides with Electronic and Geometric MetalSupport Interactions. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25299-25307	3.8	9
251	Room Temperature Oxidation of the Surface of Highly Oriented Pyrolytic Graphite (HOPG) with Nitrogen Dioxide in the Presence of Supported Palladium Particles. <i>Kinetics and Catalysis</i> , 2020 , 61, 637-645	1.5	2
250	XPS Analysis of the Spacial Distribution of Metals in Au-Ag Bimetallic Particles Considering the Effect of Particle Size Distribution. <i>Journal of Structural Chemistry</i> , 2020 , 61, 20-28	0.9	
249	Aqueous-Phase Oxidation of N-Substituted N-PhosphonomethylGlycines into Glyphosate with Hydrogen Peroxide in the Presence of Carbon-Supported Gold Catalysts. <i>ChemistrySelect</i> , 2019 , 4, 10756-10764	1.8	2
248	Using Sr-XPS to Study the Preparation Features of M-Au/HOPG Model Catalysts (M = Pd, Ag, Cu). <i>Journal of Structural Chemistry</i> , 2019 , 60, 45-52	0.9	3
247	Nonclassical Adsorption of Methanol on Palladium: The Competition between Adsorption of Single Molecules and Clusters. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7259-7265	3.8	3
246	Relaxation Dynamics of Nuclear Long-Lived Spin States in Propane and Propane-d Hyperpolarized by Parahydrogen. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11734-11744	3.8	13
245	Effect of Mono-, Di-, and Triethylene Glycol on the Activity of Phosphate-Doped NiMo/Al ₂ O ₃ Hydrotreating Catalysts. <i>Catalysts</i> , 2019 , 9, 96	4	6
244	Single-Site Heterogeneous Catalysts: From Synthesis to NMR Signal Enhancement. <i>Chemistry - A European Journal</i> , 2019 , 25, 1420-1431	4.8	20
243	Scientific Heritage of Georgii Konstantinovich Boreskov. <i>Kinetics and Catalysis</i> , 2019 , 60, 123-136	1.5	3
242	Effect of Mono-, Di-, and Triethylene Glycol on the Sulfidation Behavior of NiMo(P)/Al ₂ O ₃ Hydrotreating Catalysts. <i>Catalysis Letters</i> , 2019 , 149, 3304-3311	2.8	1
241	Chemoselective hydrogenation of 3-nitrostyrene over Ag/TiO ₂ -SiO ₂ catalyst in a flow reactor. <i>Mendeleev Communications</i> , 2019 , 29, 553-555	1.9	6

240	CO-induced segregation as an efficient tool to control the surface composition and catalytic performance of PdAg ₃ /Al ₂ O ₃ catalyst. <i>Mendelevov Communications</i> , 2019 , 29, 547-549	1.9	11
239	An XPS Study of the Interaction of Rhodium Foil with NO ₂ . <i>Kinetics and Catalysis</i> , 2019 , 60, 823-831	1.5	3
238	PdCu/HOPG and PdAg/HOPG Model Catalysts in CO and Methanol Oxidations at Submillibar Pressures. <i>Kinetics and Catalysis</i> , 2019 , 60, 832-841	1.5	5
237	Changes in the Spatial Distribution of Metals Under the Influence of Reaction Medium in the System Formed by a Gold Film Supported on the Surface of a Silver Foil. <i>Journal of Structural Chemistry</i> , 2019 , 60, 1773-1782	0.9	
236	Heterogeneous hydrogenation of phenylalkynes with parahydrogen: hyperpolarization, reaction selectivity, and kinetics. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 26477-26482	3.6	6
235	CO ₂ activation on ultrathin ZrO ₂ film by H ₂ O co-adsorption: In situ NAP-XPS and IRAS studies. <i>Surface Science</i> , 2019 , 679, 139-146	1.8	28
234	Pd Segregation on the Surface of Bimetallic PdAu Nanoparticles Induced by Low Coverage of Adsorbed CO. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8037-8046	3.8	23
233	A versatile synthetic route to the preparation of N heterocycles. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2019 , 62, 892-902	1.9	2
232	In Situ Study of Self-sustained Oscillations in Propane Oxidation and Propane Steam Reforming with Oxygen Over Nickel. <i>Catalysis Letters</i> , 2019 , 149, 313-321	2.8	7
231	Particle-Size Effect in Catalytic Oxidation Over Pt Nanoparticles 2019 , 295-320		7
230	In Situ NAP-XPS and Mass Spectrometry Study of the Oxidation of Propylene over Palladium. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4315-4323	3.8	12
229	In situ formation of the active sites in Pd-Au bimetallic nanocatalysts for CO oxidation: NAP (near ambient pressure) XPS and MS study. <i>Faraday Discussions</i> , 2018 , 208, 255-268	3.6	27
228	Selective Single-Site Pd-In Hydrogenation Catalyst for Production of Enhanced Magnetic Resonance Signals using Parahydrogen. <i>Chemistry - A European Journal</i> , 2018 , 24, 2547-2553	4.8	37
227	Atomic scale structural defects in the graphite layer for model catalysis. <i>Surface Science</i> , 2018 , 677, 90-92	3.2	7
226	Heterogeneous Parahydrogen Pairwise Addition to Cyclopropane. <i>ChemPhysChem</i> , 2018 , 19, 2621-2626	3.2	14
225	Bimetallic PdAu/Highly Oriented Pyrolytic Graphite Catalysts: from Composition to Pairwise Parahydrogen Addition Selectivity. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18588-18595	3.8	9
224	Mechanistic Insight into the Heterogeneous Hydrogenation of Furan Derivatives with the use of Parahydrogen. <i>ChemCatChem</i> , 2018 , 10, 1178-1183	5.2	12
223	An XPS Study of the Interaction of a Palladium Foil with NO ₂ . <i>Kinetics and Catalysis</i> , 2018 , 59, 786-791	1.5	5

222	The Reasons for Nonlinear Phenomena in Oxidation of Methane over Nickel. <i>Kinetics and Catalysis</i> , 2018 , 59, 810-819	1.5	4
221	Model Bimetallic PdAg/HOPG Catalysts: An XPS and STM Study. <i>Kinetics and Catalysis</i> , 2018 , 59, 776-785	1.5	12
220	Sulfide Catalysts for Production of Motor Fuels from Fatty Acid Triglycerides. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 1905-1911	0.8	3
219	Size Effect in Silver Oxidation By Nitrogen Dioxide. <i>Journal of Structural Chemistry</i> , 2018 , 59, 1726-1729	0.9	8
218	Nitrogen-doped alumina carrier for sintering resistant gold supported catalysts. <i>Mendeleev Communications</i> , 2018 , 28, 601-602	1.9	3
217	Formation of Surface Platinum Oxides in the Interaction of the Pt/Sibunit Catalysts with NO ₂ : Estimates of the Width of Oxide Shell from XPS Data. <i>Kinetics and Catalysis</i> , 2018 , 59, 663-671	1.5	3
216	An XPS and STM Study of Oxidized Platinum Particles Formed by the Interaction between Pt/HOPG with NO ₂ . <i>Kinetics and Catalysis</i> , 2018 , 59, 653-662	1.5	9
215	One-Pot Synthesis of Secondary Amines from Nitroarenes and Aldehydes on Supported Copper Catalysts in a Flow Reactor: The Effect of the Support. <i>Kinetics and Catalysis</i> , 2018 , 59, 593-600	1.5	9
214	Chemical Exchange Reaction Effect on Polarization Transfer Efficiency in SLIC-SABRE. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 9107-9114	2.8	25
213	Influence of preparation conditions on catalytic activity and stability of platinum on alumina catalysts in methane oxidation. <i>Applied Catalysis A: General</i> , 2018 , 566, 174-180	5.1	5
212	The effect of oxidative and reductive treatments of titania-supported metal catalysts on the pairwise hydrogen addition to unsaturated hydrocarbons. <i>Catalysis Today</i> , 2017 , 283, 82-88	5.3	16
211	NMR Hyperpolarization Techniques of Gases. <i>Chemistry - A European Journal</i> , 2017 , 23, 724-724	4.8	1
210	New Pt/Alumina model catalysts for STM and in situ XPS studies. <i>Applied Surface Science</i> , 2017 , 401, 3416-3417	4.7	16
209	Propane Oxidation Over Pd/Al ₂ O ₃ : Kinetic and In Situ XPS Study. <i>Topics in Catalysis</i> , 2017 , 60, 190-197	2.3	22
208	Influence of a precursor solution on the characteristics of platinum on alumina catalysts. <i>Mendeleev Communications</i> , 2017 , 27, 70-71	1.9	4
207	2D Mapping of NMR Signal Enhancement and Relaxation for Heterogeneously Hyperpolarized Propane Gas. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10038-10046	3.8	23
206	Frontispiece: NMR Hyperpolarization Techniques of Gases. <i>Chemistry - A European Journal</i> , 2017 , 23,	4.8	2
205	Heterogeneous Microtesla SABRE Enhancement of N NMR Signals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10433-10437	16.4	43

204	Robust Imidazole-15N ₂ Synthesis for High-Resolution Low-Field (0.05 T) 15N Hyperpolarized NMR Spectroscopy. <i>ChemistrySelect</i> , 2017 , 2, 4478-4483	1.8	25
203	The origin of self-sustained reaction-rate oscillations in the oxidation of methane over nickel: an operando XRD and mass spectrometry study. <i>Catalysis Science and Technology</i> , 2017 , 7, 1646-1649	5.5	18
202	Flow synthesis of secondary amines over Ag/Al ₂ O ₃ catalyst by one-pot reductive amination of aldehydes with nitroarenes. <i>RSC Advances</i> , 2017 , 7, 45856-45861	3.7	11
201	Synthesis of secondary amines by reductive amination of aldehydes with nitroarenes over supported copper catalysts in a flow reactor. <i>Catalysis Communications</i> , 2017 , 102, 108-113	3.2	26
200	Reversible Bulk Oxidation of Ni Foil During Oscillatory Catalytic Oxidation of Propane: A Novel Type of Spatiotemporal Self-Organization. <i>Physical Review Letters</i> , 2017 , 119, 026001	7.4	8
199	XPS Study of Stability and Reactivity of Oxidized Pt Nanoparticles Supported on TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17297-17304	3.8	52
198	Experimental Study and Mathematical Modeling of Self-Sustained Kinetic Oscillations in Catalytic Oxidation of Methane over Nickel. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 6874-6886	2.8	5
197	Formation of supported intermetallic nanoparticles in the Pd ₂ Ni/Al ₂ O ₃ catalyst. <i>Kinetics and Catalysis</i> , 2017 , 58, 471-479	1.5	15
196	Heterogeneous Microtesla SABRE Enhancement of 15N NMR Signals. <i>Angewandte Chemie</i> , 2017 , 129, 10569-10573	3.6	22
195	Aqueous, Heterogeneous Parahydrogen-Induced N Polarization. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15304-15309	3.8	35
194	Study of Catalyst Deactivation in Liquid-Phase Hydrogenation of 3-Nitrostyrene Over Au/Al ₂ O ₃ Catalyst in Flow Reactor. <i>Catalysis Letters</i> , 2017 , 147, 572-580	2.8	9
193	Studies on three-way catalysis with supported gold catalysts. Influence of support and water content in feed. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 572-581	21.8	15
192	Liquid-phase hydrogenation of benzaldehyde over Pd-Ru/C catalysts: Synergistic effect between supported metals. <i>Catalysis Today</i> , 2017 , 279, 2-9	5.3	36
191	NMR Hyperpolarization Techniques of Gases. <i>Chemistry - A European Journal</i> , 2017 , 23, 725-751	4.8	111
190	Effect of the Composition of the Reaction Atmosphere on the Thermal Stability of Highly Dispersed Gold Particles on an Oxide Support (Au/Fe ₂ O ₃ System). <i>Kinetics and Catalysis</i> , 2017 , 58, 809-815	1.5	1
189	Catalysis and Nuclear Magnetic Resonance Signal Enhancement with Parahydrogen. <i>Topics in Catalysis</i> , 2016 , 59, 1686-1699	2.3	18
188	Toward Production of Pure C Hyperpolarized Metabolites Using Heterogeneous Parahydrogen-Induced Polarization of Ethyl[1-C]acetate. <i>RSC Advances</i> , 2016 , 6, 69728-69732	3.7	28
187	Analysis of the oxidation state of platinum particles in supported catalysts by double differentiation of XPS lines. <i>Journal of Structural Chemistry</i> , 2016 , 57, 1127-1133	0.9	4

186	Mathematical modeling of self-oscillations in ethane oxidation over nickel. <i>Kinetics and Catalysis</i> , 2016 , 57, 113-124	1.5	3
185	Active component of supported vanadium catalysts in the selective oxidation of methanol. <i>Kinetics and Catalysis</i> , 2016 , 57, 82-94	1.5	18
184	Hydrogenation of Unsaturated Six-Membered Cyclic Hydrocarbons Studied by the Parahydrogen-Induced Polarization Technique. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13541-13548	3.8	17
183	Are Au Nanoparticles on Oxygen-Free Supports Catalytically Active?. <i>Topics in Catalysis</i> , 2016 , 59, 469-477	3	15
182	Application of near ambient pressure gas-phase X-ray photoelectron spectroscopy to the investigation of catalytic properties of copper in methanol oxidation. <i>Applied Surface Science</i> , 2016 , 363, 303-309	6.7	23
181	Redox mechanism for selective oxidation of ethanol over monolayer V2O5/TiO2 catalysts. <i>Journal of Catalysis</i> , 2016 , 338, 82-93	7.3	57
180	Oxidation of a platinum foil with nitrogen dioxide. <i>Kinetics and Catalysis</i> , 2016 , 57, 826-830	1.5	7
179	Effect of the composition of the reaction atmosphere on the thermal stability of highly dispersed gold particles on an oxide support (Au/Al2O3 system). <i>Kinetics and Catalysis</i> , 2016 , 57, 831-839	1.5	3
178	Kinetika i Kataliz: 55 years in the bibliometric dimension. <i>Kinetics and Catalysis</i> , 2016 , 57, 1-16	1.5	2
177	XPS/STM study of model bimetallic PdAu/HOPG catalysts. <i>Applied Surface Science</i> , 2016 , 367, 214-221	6.7	39
176	Using X-ray Photoelectron Spectroscopy To Evaluate Size of Metal Nanoparticles in the Model Au/C Samples. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10419-10426	3.8	16
175	A low-temperature method for measuring oxygen storage capacity of ceria-containing oxides. <i>Catalysis Science and Technology</i> , 2016 , 6, 5891-5898	5.5	11
174	Synthesis of unsaturated secondary amines by direct reductive amination of aliphatic aldehydes with nitroarenes over Au/Al2O3 catalyst in continuous flow mode. <i>RSC Advances</i> , 2016 , 6, 88366-88372	3.7	16
173	Production of Pure Aqueous C-Hyperpolarized Acetate by Heterogeneous Parahydrogen-Induced Polarization. <i>Chemistry - A European Journal</i> , 2016 , 22, 16446-16449	4.8	31
172	Thermal stability of AgAu, CuAu, and AgCu bimetallic nanoparticles supported on highly oriented pyrolytic graphite. <i>Kinetics and Catalysis</i> , 2016 , 57, 704-711	1.5	4
171	Aerosol deposition in nasal passages of burrowing and ground rodents when breathing dust-laden air. <i>Biology Bulletin Reviews</i> , 2015 , 5, 36-45	0.9	2
170	One-pot reductive amination of aldehydes with nitroarenes over an Au/Al2O3 catalyst in a continuous flow reactor. <i>Catalysis Science and Technology</i> , 2015 , 5, 4741-4745	5.5	41
169	Model sulfur-resistant NSR catalysts: An XPS study of the interaction of BaO/TiO2-ZrO2 and Pt-BaO/TiO2-ZrO2 with NO2. <i>Kinetics and Catalysis</i> , 2015 , 56, 540-548	1.5	7

168	Concentration Hysteresis in the Oxidation of Methane over Pt/Al ₂ O ₃ : X-ray Absorption Spectroscopy and Kinetic Study. <i>ACS Catalysis</i> , 2015 , 5, 2795-2804	13.1	25
167	Liquid-phase hydrogenation of diphenylacetylene on Pd-Au/Al ₂ O ₃ bimetallic catalysts. <i>Russian Chemical Bulletin</i> , 2015 , 64, 53-57	1.7	8
166	Effect of the nature of carbon support on the formation of active sites in Pd/C and Ru/C catalysts for hydrogenation of furfural. <i>Catalysis Today</i> , 2015 , 249, 145-152	5.3	75
165	XPS study of gold oxidation with nitrogen dioxide in model Au/C samples. <i>Kinetics and Catalysis</i> , 2015 , 56, 796-800	1.5	20
164	Size effect in the oxidation-reduction processes of platinum particles supported onto silicon dioxide. <i>Kinetics and Catalysis</i> , 2015 , 56, 801-809	1.5	11
163	In situ XPS study of the size effect in the interaction of NO with the surface of the model Ag/Al ₂ O ₃ /FeCrAl catalysts. <i>Russian Chemical Bulletin</i> , 2015 , 64, 2780-2785	1.7	6
162	Bimetallic PdPt/Al ₂ O ₃ catalysts for complete methane oxidation: the effect of the Pt: Pd ratio. <i>Russian Chemical Bulletin</i> , 2015 , 64, 2802-2805	1.7	4
161	Ferromagnetic HfO ₂ /Si/GaAs interface for spin-polarimetry applications. <i>Applied Physics Letters</i> , 2015 , 107, 123506	3.4	5
160	Origin of temperature oscillations of nickel catalyst occurring in methane oxidation. <i>Kinetics and Catalysis</i> , 2015 , 56, 598-604	1.5	18
159	Strong Metal-Support Interactions for Palladium Supported on TiO ₂ Catalysts in the Heterogeneous Hydrogenation with Parahydrogen. <i>ChemCatChem</i> , 2015 , 7, 2581-2584	5.2	46
158	Selective Liquid-Phase Hydrogenation of a Nitro Group in Substituted Nitrobenzenes over Au/Al ₂ O ₃ Catalyst in a Packed-Bed Flow Reactor. <i>ChemPlusChem</i> , 2015 , 80, 1741-1749	2.8	22
157	The model thin film alumina catalyst support suitable for catalysis-oriented surface science studies. <i>Applied Surface Science</i> , 2015 , 349, 310-318	6.7	16
156	Size effect in the liquid phase semihydrogenation of substituted alkynes over supported Pd/Al ₂ O ₃ catalysts. <i>Mendeleev Communications</i> , 2015 , 25, 367-369	1.9	15
155	Oxidation of propylene over Pd(551): Temperature hysteresis induced by carbon deposition and oxygen adsorption. <i>Catalysis Today</i> , 2015 , 244, 29-35	5.3	26
154	Effect of Ultrasonic Oscillations on the Interaction of Al with Ga-In Eutectic Alloy. <i>Mechanisms and Machine Science</i> , 2015 , 309-316	0.3	1
153	Nanocatalysis: A bibliometric analysis. <i>Kinetics and Catalysis</i> , 2014 , 55, 1-11	1.5	7
152	Selective oxidation of formaldehyde to formic acid over supported vanadia catalysts. <i>Applied Catalysis A: General</i> , 2014 , 475, 98-108	5.1	23
151	Selective oxidation of methanol to form dimethoxymethane and methyl formate over a monolayer V ₂ O ₅ /TiO ₂ catalyst. <i>Journal of Catalysis</i> , 2014 , 311, 59-70	7.3	97

150	Effect of γ -Al ₂ O ₃ hydrothermal treatment on the formation and properties of platinum sites in Pt/ γ -Al ₂ O ₃ catalysts. <i>Applied Catalysis A: General</i> , 2014 , 469, 472-482	5.1	46
149	Decomposition and oxidation of methanol on platinum: A study by in situ X-ray photoelectron spectroscopy and mass spectrometry. <i>Kinetics and Catalysis</i> , 2014 , 55, 509-519	1.5	8
148	Alumina-supported platinum catalysts: Local atomic structure and catalytic activity for complete methane oxidation. <i>Applied Catalysis A: General</i> , 2014 , 486, 12-18	5.1	16
147	Interaction of SO ₂ with Pt Model Supported Catalysts Studied by XPS. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22120-22135	3.8	34
146	Nasal aerodynamics protects brain and lung from inhaled dust in subterranean diggers, <i>Ellobius talpinus</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281,	4.4	5
145	Size effect in the oxidation of platinum nanoparticles on graphite with nitrogen dioxide: An XPS and STM study. <i>Kinetics and Catalysis</i> , 2014 , 55, 354-360	1.5	30
144	Effect of β and β -polymorphs of glycine on the intranasal delivery of manganese hydroxide nanoparticles into brain structures. <i>Doklady Biochemistry and Biophysics</i> , 2014 , 454, 6-9	0.8	4
143	Evaluation of the Mechanism of Heterogeneous Hydrogenation of α -Unsaturated Carbonyl Compounds via Pairwise Hydrogen Addition. <i>ACS Catalysis</i> , 2014 , 4, 2022-2028	13.1	32
142	High-resolution 3D proton MRI of hyperpolarized gas enabled by parahydrogen and Rh/TiO ₂ heterogeneous catalyst. <i>Chemistry - A European Journal</i> , 2014 , 20, 11636-9	4.8	63
141	Formation of platinum sites on layered double hydroxide type basic supports: III. Effect of the mechanism of [PtCl ₆] ²⁻ complex binding to aluminum-magnesium layered double hydroxides on the properties of supported platinum in Pt/MgAlO _x catalysts. <i>Kinetics and Catalysis</i> , 2014 , 55, 786-792	1.5	11
140	Comparison of thermal stability of gold nanoparticles deposited on Al ₂ O ₃ and Fe ₂ O ₃ in the CO + O ₂ reaction medium. <i>Russian Chemical Bulletin</i> , 2014 , 63, 2733-2736	1.7	4
139	Development of new methods in modern selective organic synthesis: preparation of functionalized molecules with atomic precision. <i>Russian Chemical Reviews</i> , 2014 , 83, 885-985	6.8	153
138	Oxide-free InAs(111)A interface in metal-oxide-semiconductor structure with very low density of states prepared by anodic oxidation. <i>Applied Physics Letters</i> , 2014 , 105, 161601	3.4	12
137	Interaction of silica-supported small silver clusters with molecular oxygen. A computational study. <i>Surface Science</i> , 2014 , 630, 265-272	1.8	11
136	Propane- Heterogeneously Hyperpolarized by Parahydrogen. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28234-28243	3.8	65
135	AN XPS study of the interaction of model Ba/TiO ₂ AND Ba/ZrO ₂ NSR catalysts with NO ₂ . <i>Journal of Structural Chemistry</i> , 2014 , 55, 757-763	0.9	4
134	Uptake of palladium nanoparticles by epithelial MDCK cells and peritoneal macrophages. <i>Nanotechnologies in Russia</i> , 2014 , 9, 707-714	0.6	
133	Mechanistic Study of Methanol Decomposition and Oxidation on Pt(111). <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8189-8197	3.8	63

132	Enhanced Sulfur Tolerance of Ceria-Promoted NO _x Storage Reduction (NSR) Catalysts: Sulfur Uptake, Thermal Regeneration and Reduction with H ₂ (g). <i>Topics in Catalysis</i> , 2013 , 56, 950-957	2.3	9
131	In situ XPS study of self-sustained oscillations in catalytic oxidation of propane over nickel. <i>Surface Science</i> , 2013 , 609, 113-118	1.8	66
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