

Valerii Bukhtiyarov

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68
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289
ext. papers

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ext. citations

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#	Paper	IF	Citations
275	Metal-support interactions in cobalt-aluminum co-precipitated catalysts: XPS and CO adsorption studies. <i>Journal of Molecular Catalysis A</i> , 2001 , 175, 189-204		206
274	Methanol Oxidation on a Copper Catalyst Investigated Using in Situ X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14340-14347	3.4	193
273	Metallic nanosystems in catalysis. <i>Russian Chemical Reviews</i> , 2001 , 70, 147-159	6.8	166
272	Observation of parahydrogen-induced polarization in heterogeneous hydrogenation on supported metal catalysts. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1492-5	16.4	157
271	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
270	Electronic and chemical properties of nanostructured cerium dioxide doped with praseodymium. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 5728-38	3.4	142
269	Atomic oxygen species on silver: Photoelectron spectroscopy and x-ray absorption studies. <i>Physical Review B</i> , 2003 , 67,	3.3	115
268	Combined in situ XPS and PTRMS study of ethylene epoxidation over silver. <i>Journal of Catalysis</i> , 2006 , 238, 260-269	7.3	113
267	NMR Hyperpolarization Techniques of Gases. <i>Chemistry - A European Journal</i> , 2017 , 23, 725-751	4.8	111
266	The silver-oxygen system in catalysis: new insights by near ambient pressure X-ray photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4554-64	3.6	111
265	Platinum nanoparticles on Al ₂ O ₃ : Correlation between the particle size and activity in total methane oxidation. <i>Journal of Catalysis</i> , 2009 , 268, 60-67	7.3	110
264	Interaction of Al ₂ O ₃ and CeO ₂ surfaces with SO ₂ and SO ₂ + O ₂ studied by X-ray photoelectron spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11712-9	3.4	108
263	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
262	Stages in the Modification of a Silver Surface for Catalysis of the Partial Oxidation of Ethylene. <i>Journal of Catalysis</i> , 1994 , 150, 262-267	7.3	89
261	Chapter 4 X-Ray Photoelectron Spectroscopy for Investigation of Heterogeneous Catalytic Processes. <i>Advances in Catalysis</i> , 2009 , 213-272	2.4	86
260	Methanol Dehydrogenation and Formation of Carbonaceous Overlayers on Pd(111) Studied by High-Pressure SFG and XPS Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12955-12961	3.4	82
259	High-Pressure Studies of CO Adsorption on Pd(111) by X-ray Photoelectron Spectroscopy and Sum-Frequency Generation. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3522-3527	3.4	82

258	Alloy catalyst in a reactive environment: the example of ag-cu particles for ethylene epoxidation. <i>Physical Review Letters</i> , 2010 , 104, 035503	7.4	80
257	XPS and TEM Studies on the Role of the Support and Alkali Promoter in Ru/MgO and Ru γ S+/MgO Catalysts for Ammonia Synthesis. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 9427-9436	3.8	78
256	Oxygen adsorption on Ag(111): X-ray photoelectron spectroscopy (XPS), angular dependent x-ray photoelectron spectroscopy (ADXPS) and temperature-programmed desorption (TPD) studies. <i>Journal of Chemical Physics</i> , 1999 , 111, 2169-2175	3.9	77
255	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
254	XPS and UPS studies of oxygen adsorption over clean and carbon-modified silver surfaces. <i>Surface Science</i> , 1988 , 201, 195-210	1.8	67
253	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
252	Propane- Heterogeneously Hyperpolarized by Parahydrogen. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28234-28243	3.8	65
251	X-ray photoelectron spectroscopy as a tool for in-situ study of the mechanisms of heterogeneous catalytic reactions. <i>Topics in Catalysis</i> , 2005 , 32, 3-15	2.3	65
250	Nanodispersed Au/Al ₂ O ₃ catalysts for low-temperature CO oxidation: Results of research activity at the Boreskov Institute of Catalysis. <i>Catalysis Today</i> , 2009 , 144, 292-305	5.3	64
249	Nanostructured, Gd-doped ceria promoted by Pt or Pd: investigation of the electronic and surface structures and relations to chemical properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20077-86	3.4	64
248	Stages in the Modification of a Silver Surface for Catalysis of the Partial Oxidation of Ethylene. <i>Journal of Catalysis</i> , 1994 , 150, 268-273	7.3	64
247	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
246	Mechanistic Study of Methanol Decomposition and Oxidation on Pt(111). <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8189-8197	3.8	63
245	Particle Size Effect on CH ₄ Oxidation Over Noble Metals: Comparison of Pt and Pd Catalysts. <i>Topics in Catalysis</i> , 2013 , 56, 306-310	2.3	60
244	Aerobic selective oxidation of glucose to gluconate catalyzed by Au/Al ₂ O ₃ and Au/C: Impact of the mass-transfer processes on the overall kinetics. <i>Chemical Engineering Journal</i> , 2013 , 223, 921-931	14.7	60
243	Effect of Pd/C dispersion on its catalytic properties in acetylene and vinylacetylene hydrogenation. <i>Applied Catalysis</i> , 1989 , 54, 277-288		58
242	Redox mechanism for selective oxidation of ethanol over monolayer V ₂ O ₅ /TiO ₂ catalysts. <i>Journal of Catalysis</i> , 2016 , 338, 82-93	7.3	57
241	H ₂ O ₂ -based selective oxidations over titaniumsilicates of SBA-15 type. <i>Microporous and Mesoporous Materials</i> , 2003 , 59, 73-84	5.3	57

240	XPS study of the silica-supported Fe-containing catalysts for deep or partial H ₂ S oxidation. <i>Journal of Molecular Catalysis A</i> , 2000 , 158, 251-255		57
239	Role of Different Active Sites in Heterogeneous Alkene Hydrogenation on Platinum Catalysts Revealed by Means of Parahydrogen-Induced Polarization. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13386-13391	3.8	55
238	SiCN alloys obtained by remote plasma chemical vapour deposition from novel precursors. <i>Thin Solid Films</i> , 2003 , 429, 144-151	2.2	54
237	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
236	Heterogeneous addition of H ₂ to double and triple bonds over supported Pd catalysts: a parahydrogen-induced polarization technique study. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11008-11014	3.6	52
235	The Nature of Electrophilic and Nucleophilic Oxygen Adsorbed on Silver. <i>Kinetics and Catalysis</i> , 2003 , 44, 432-440	1.5	50
234	Platinum nanoparticle size effect on specific catalytic activity in n-alkane deep oxidation: Dependence on the chain length of the paraffin. <i>Kinetics and Catalysis</i> , 2009 , 50, 830-836	1.5	47
233	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
232	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
231	Selective vapour-phase α -pinene isomerization to camphene over gold-on-alumina catalyst. <i>Applied Catalysis A: General</i> , 2010 , 385, 136-143	5.1	44
230	Study of reactivity of oxygen states adsorbed at a silver surface towards C ₂ H ₄ by XPS, TPD and TPR. <i>Surface Science</i> , 1994 , 320, L47-L50	1.8	44
229	Heterogeneous Microtesla SABRE Enhancement of N NMR Signals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10433-10437	16.4	43
228	Model Ag/HOPG catalysts: preparation and STM/XPS study. <i>Catalysis Science and Technology</i> , 2011 , 1, 1432	5.5	43
227	C-O bond scission on defect-rich and perfect Pd(111)?:. <i>Surface Science</i> , 2004 , 566-568, 1024-1029	1.8	43
226	Electronic state of ruthenium deposited onto oxide supports: An XPS study taking into account the final state effects. <i>Applied Surface Science</i> , 2011 , 258, 1541-1550	6.7	42
225	XPS, TPD and TPR studies of Cs-O complexes on silver: their role in ethylene epoxidation. <i>Journal of Molecular Catalysis A</i> , 2000 , 158, 337-343		42
224	One-pot reductive amination of aldehydes with nitroarenes over an Au/Al ₂ O ₃ catalyst in a continuous flow reactor. <i>Catalysis Science and Technology</i> , 2015 , 5, 4741-4745	5.5	41
223	Electronic state of cobalt and oxygen ions in stoichiometric and nonstoichiometric Li _{1+x} CoO ₂ before and after delithiation according to XPS and DRS. <i>Journal of Power Sources</i> , 2003 , 119-121, 669-673	8.9	41

222	Influence of ceria on the NO _x reduction performance of NO _x storage reduction catalysts. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 89-100	21.8	40
221	Vapour phase formic acid decomposition over PdAu/PAl ₂ O ₃ catalysts: Effect of composition of metallic particles. <i>Journal of Catalysis</i> , 2013 , 299, 171-180	7.3	40
220	CO dissociation and CO hydrogenation on smooth and ion-bombarded Pd(111): SFG and XPS spectroscopy at mbar pressures. <i>Applied Surface Science</i> , 2004 , 235, 26-31	6.7	40
219	Two oxygen states and the role of carbon in partial oxidation of ethylene over silver. <i>Surface Science</i> , 1990 , 232, L205-L209	1.8	40
218	XPS/STM study of model bimetallic PdAu/HOPG catalysts. <i>Applied Surface Science</i> , 2016 , 367, 214-221	6.7	39
217	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
216	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
215	The combined application of XPS and TPD to study of oxygen adsorption on graphite-supported silver clusters. <i>Journal of Molecular Catalysis A</i> , 2000 , 158, 167-172		36
214	Aqueous, Heterogeneous Parahydrogen-Induced N Polarization. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15304-15309	3.8	35
213	X-Ray Absorption and Photoemission Studies of the Active Oxygen for Ethylene Epoxidation over Silver. <i>Catalysis Letters</i> , 2001 , 74, 121-125	2.8	35
212	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
211	Decomposition of ethylene and a mechanism of graphite formation on the Pt(110) surface. <i>Surface Science</i> , 1991 , 258, 289-301	1.8	34
210	In situ XPS and MS study of methanol decomposition and oxidation on Pd(111) under millibar pressure range. <i>Surface Science</i> , 2012 , 606, 420-425	1.8	33
209	Modern trends in the development of surface science as applied to catalysis. The elucidation of the structure-activity relationships in heterogeneous catalysts. <i>Russian Chemical Reviews</i> , 2007 , 76, 553-581	6.8	33
208	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
207	In situ study of selective oxidation of methanol to formaldehyde over copper. <i>Reaction Kinetics and Catalysis Letters</i> , 2003 , 79, 181-188		32
206	An XPS study of the composition of iridium films obtained by MO CVD. <i>Surface Science</i> , 1992 , 275, 323-331	3.8	31
205	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

204	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
203	Chemical vapor infiltration method for deposition of gold nanoparticles on porous alumina supports. <i>Journal of Structural Chemistry</i> , 2006 , 47, 458-464	0.9	30
202	New binary systems MgM ₂ (M=Y, La, Ce): Synthesis and physico-chemical characterization. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 3265-3274	3.3	30
201	Toward Production of Pure C Hyperpolarized Metabolites Using Heterogeneous Parahydrogen-Induced Polarization of Ethyl[1- ¹³ C]acetate. <i>RSC Advances</i> , 2016 , 6, 69728-69732	3.7	28
200	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
199	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
198	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
197	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
196	X-ray photoelectron spectroscopic study of the interaction of supported metal catalysts with NO _x . <i>Journal of Structural Chemistry</i> , 2007 , 48, 1053-1060	0.9	26
195	Robust Imidazole-15N ₂ Synthesis for High-Resolution Low-Field (0.05 T) ¹⁵ N-Hyperpolarized NMR Spectroscopy. <i>ChemistrySelect</i> , 2017 , 2, 4478-4483	1.8	25
194	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
193	Effect of the calcination temperature on the properties of Fe ₂ O ₃ /SiO ₂ catalysts for oxidation of hydrogen sulfide. <i>Reaction Kinetics and Catalysis Letters</i> , 2007 , 92, 89-97		25
192	Comparative XPS Study of Al ₂ O ₃ and CeO ₂ Sulfation in Reactions with SO ₂ , SO ₂ + O ₂ , SO ₂ + H ₂ O, and SO ₂ + O ₂ + H ₂ O. <i>Kinetics and Catalysis</i> , 2003 , 44, 575-583	1.5	25
191	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
190	An XPS study of the oxidation of noble metal particles evaporated onto the surface of an oxide support in their reaction with NO _x . <i>Kinetics and Catalysis</i> , 2012 , 53, 117-124	1.5	24
189	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
188	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
187	Selective oxidation of formaldehyde to formic acid over supported vanadia catalysts. <i>Applied Catalysis A: General</i> , 2014 , 475, 98-108	5.1	23

186	In-situ XPS investigation of nitric oxide adsorption on (111), (310), and (533) gold single crystal faces. <i>Surface Science</i> , 2012 , 606, 559-563	1.8	23
185	Preparation of Ag/HOPG model catalysts with a variable particle size and an in situ xps study of their catalytic properties in ethylene oxidation. <i>Kinetics and Catalysis</i> , 2011 , 52, 855-861	1.5	23
184	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
183	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
182	Heterogeneous Microtesla SABRE Enhancement of 15N NMR Signals. <i>Angewandte Chemie</i> , 2017 , 129, 10569-10573	3.6	22
181	Selective Liquid-Phase Hydrogenation of a Nitro Group in Substituted Nitrobenzenes over Au/Al O Catalyst in a Packed-Bed Flow Reactor. <i>ChemPlusChem</i> , 2015 , 80, 1741-1749	2.8	22
180	SO _x uptake and release properties of TiO ₂ /Al ₂ O ₃ and BaO/TiO ₂ /Al ₂ O ₃ mixed oxide systems as NO _x storage materials. <i>Catalysis Today</i> , 2012 , 184, 54-71	5.3	22
179	An XPS Study of the Promotion of Ru-Cs/Sibunit Catalysts for Ammonia Synthesis. <i>Kinetics and Catalysis</i> , 2005 , 46, 597-602	1.5	22
178	Application of differential charging for analysis of electronic properties of supported silver. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996 , 77, 7-13	1.7	22
177	An XPS and STM study of the size effect in NO adsorption on gold nanoparticles. <i>Russian Chemical Bulletin</i> , 2011 , 60, 1977-1984	1.7	21
176	Comparative Study of Rubidium and Cesium as Promoters in Carbon-supported Ruthenium Catalysts for Ammonia Synthesis. <i>Catalysis Letters</i> , 2008 , 120, 204-209	2.8	21
175	Single-Site Heterogeneous Catalysts: From Synthesis to NMR Signal Enhancement. <i>Chemistry - A European Journal</i> , 2019 , 25, 1420-1431	4.8	20
174	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
173	Chapter 9:Ethylene Epoxidation over Silver Catalysts. <i>RSC Nanoscience and Nanotechnology</i> , 214-247		20
172	Activation of the C-O bond on the surface of palladium: An In situ study by X-ray photoelectron spectroscopy and sum frequency generation. <i>Kinetics and Catalysis</i> , 2005 , 46, 269-281	1.5	20
171	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
170	Catalysis and Nuclear Magnetic Resonance Signal Enhancement with Parahydrogen. <i>Topics in Catalysis</i> , 2016 , 59, 1686-1699	2.3	18
169	Active component of supported vanadium catalysts in the selective oxidation of methanol. <i>Kinetics and Catalysis</i> , 2016 , 57, 82-94	1.5	18

168	Origin of temperature oscillations of nickel catalyst occurring in methane oxidation. <i>Kinetics and Catalysis</i> , 2015 , 56, 598-604	1.5	18
167	XAFS study of Pt/Al ₂ O ₃ nanosystem with metal-oxide active component. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 603, 108-110	1.2	18
166	The role of support in formation of the manganeseBismuth oxide catalyst for synthesis of nitrous oxide through oxidation of ammonia with oxygen. <i>Journal of Catalysis</i> , 2004 , 221, 213-224	7.3	18
165	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
164	Dependence of the catalytic activity of Ag/Al ₂ O ₃ on the silver concentration in the selective reduction of NO _x with n-hexane in the presence of H ₂ . <i>Kinetics and Catalysis</i> , 2012 , 53, 107-116	1.5	17
163	Heterogeneous catalysts for the transformation of fatty acid triglycerides and their derivatives to fuel hydrocarbons. <i>Russian Chemical Reviews</i> , 2011 , 80, 911-925	6.8	17
162	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
161	New Pt/Alumina model catalysts for STM and in situ XPS studies. <i>Applied Surface Science</i> , 2017 , 401, 341-347	3.7	16
160	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
159	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
158	Electrodeposited Pd Sub-Monolayers on Carbon-Supported Au Particles of Few Nanometers in Size: Electrocatalytic Activity for Hydrogen Oxidation and CO Tolerance Vs. Pd Coverage. <i>Electrocatalysis</i> , 2012 , 3, 119-131	2.7	16
157	Kinetic Study of Propylene Hydrogenation over Pt/Al ₂ O ₃ by Parahydrogen-Induced Polarization. <i>Applied Magnetic Resonance</i> , 2013 , 44, 279-288	0.8	16
156	In Situ Study of the Selective Oxidation of Methanol to Formaldehyde on Copper. <i>Kinetics and Catalysis</i> , 2003 , 44, 662-668	1.5	16
155	Propane oxidation on nickel in a self-oscillation mode. <i>Kinetics and Catalysis</i> , 2005 , 46, 251-259	1.5	16
154	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
153	Synthesis of unsaturated secondary amines by direct reductive amination of aliphatic aldehydes with nitroarenes over Au/Al ₂ O ₃ catalyst in continuous flow mode. <i>RSC Advances</i> , 2016 , 6, 88366-88372	3.7	16
152	Are Au Nanoparticles on Oxygen-Free Supports Catalytically Active?. <i>Topics in Catalysis</i> , 2016 , 59, 469-473	3.3	15
151	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

150	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
149	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
148	Growth of nitrogen-doped carbon nanotubes and fibers over a gold-on-alumina catalyst. <i>Carbon</i> , 2012 , 50, 1186-1196	10.4	15
147	Nanosized Au/C catalyst obtained from a tetraamminegold(III) precursor: Synthesis, characterization, and catalytic activity in low-temperature CO oxidation. <i>Kinetics and Catalysis</i> , 2010 , 51, 885-892	1.5	15
146	Formation of Ru ^{III} /Sibunit Catalysts for Ammonia Synthesis. <i>Kinetics and Catalysis</i> , 2004 , 45, 414-421	1.5	15
145	Heterogeneous Parahydrogen Pairwise Addition to Cyclopropane. <i>ChemPhysChem</i> , 2018 , 19, 2621-2626	3.2	14
144	Enhanced catalytic activity for hydrogen electrooxidation and CO tolerance of carbon-supported non-stoichiometric palladium carbides. <i>Journal of Molecular Catalysis A</i> , 2012 , 353-354, 204-214		14
143	An in situ cell for investigation of the catalyst structure using synchrotron radiation. <i>Journal of Structural Chemistry</i> , 2010 , 51, 20-27	0.9	14
142	ARXPS-based concentration profiles restoration applied to adsorbate/metal systems. <i>Surface Science</i> , 1992 , 271, 493-500	1.8	14
141	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
140	Use of the differential charging effect in XPS to determine the nature of surface compounds resulting from the interaction of a Pt/BaCO ₃ /Al ₂ O ₃ model catalyst with NO x. <i>Kinetics and Catalysis</i> , 2008 , 49, 831-839	1.5	13
139	Effect of the Support on the Nature of Metal-Promoter Interactions in Ru-Cs ⁺ /MgO and Ru-Cs ⁺ -Al ₂ O ₃ Catalysts for Ammonia Synthesis. <i>Kinetics and Catalysis</i> , 2005 , 46, 891-899	1.5	13
138	Catalysts Based on Fiberglass Supports: III. Properties of Supported Metals (Pt and Pd) According to Electron-Microscopic and XPS Data. <i>Kinetics and Catalysis</i> , 2001 , 42, 837-846	1.5	13
137	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
136	Mathematical simulation of self-oscillations in methane oxidation on nickel: An isothermal model. <i>Kinetics and Catalysis</i> , 2012 , 53, 374-383	1.5	12
135	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
134	Direct Evidence for the Instability and Deactivation of Mixed-Oxide Systems: Influence of Surface Segregation and Subsurface Diffusion. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22438-22443	3.8	12
133	Mobility and reactivity of lattice oxygen in Gd-doped ceria promoted by Pt. <i>Reaction Kinetics and Catalysis Letters</i> , 2005 , 85, 367-374		12

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