V V Kaichev

List of Publications by Year in descending order

199 papers	5,880 citations	66234 42 h-index	95083 68 g-index
202 all docs	202 docs citations	202 times ranked	7306 citing authors

#	Article	IF	Citations
1	On the origin of better hemocompatibility of the BCxNyOz coatings. Applied Surface Science, 2022, 576, 151760.	3.1	5
2	Mechanistic study of methanol oxidation on Pt(1 1 1) single crystal. Applied Surface Science, 2022, 579, 152140.	3.1	8
3	Size and structure effects on platinum nanocatalysts: theoretical insights from methanol dehydrogenation. Nanoscale, 2022, 14, 4145-4155.	2.8	3
4	Promoting effect of Zn in high-loading Zn/Ni-SiO₂ catalysts for selective hydrogen evolution from methylcyclohexane. Dalton Transactions, 2022, 51, 6068-6085.	1.6	10
5	Influence of Cu foam framework on the physico-chemical properties and catalytic behavior of Cu(Fe)AlO/Cu(Fe)Al ceramometal granules in WGSR. International Journal of Hydrogen Energy, 2022, , .	3.8	0
6	Low Temperature Multilayer Adsorption of Methanol and Ethanol on Platinum. Applied Spectroscopy, 2022, , 000370282210856.	1.2	2
7	Key intermediates in the hydrogenation of carboxylic acids over Pt-ReOx/TiO2 catalyst. Kataliz V Promyshlennosti, 2022, 22, 18-24.	0.2	0
8	Electrochemical Synthesis-Dependent Photoelectrochemical Properties of Tungsten Oxide Powders. ChemEngineering, 2022, 6, 31.	1.0	4
9	Self-sustained oscillations in oxidation of methane over palladium: Experimental study and mathematical modeling. Journal of Chemical Physics, 2022, 157, .	1.2	2
10	Influence of Thermal Activation of Titania on Photoreactivity of Pt/TiO2 in Hydrogen Production. Catalysis Letters, 2021, 151, 748-754.	1.4	10
11	Structured catalysts with mesoporous nanocomposite active components for transformation of biogas/biofuels into syngas. Catalysis Today, 2021, 379, 166-180.	2.2	13
12	Multilayer adsorption of methanol on platinum at low temperatures. Applied Surface Science, 2021, 535, 147717.	3.1	4
13	Comparative study of photoreforming of glycerol on Pt/TiO2 and CuOx/TiO2 photocatalysts under UV light. Materials Letters, 2021, 283, 128901.	1.3	27
14	CO oxidation over titania-supported gold catalysts obtained using polyoxometalate. Reaction Kinetics, Mechanisms and Catalysis, 2021, 132, 171-185.	0.8	2
15	The Influence of Reaction Conditions on the Rate of Hydrogen Evolution in Aqueous Solutions of Glycerol over Pt/TiO2 Photocatalysts. Kinetics and Catalysis, 2021, 62, 62-67.	0.3	3
16	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.	2.1	8
17	In Situ X-Ray Absorption Spectroscopy Studies of Carbon Monoxide Oxidation in the Presence of Nanocomposite Cuâ€“Feâ€“Al Oxide Catalysts. Kinetics and Catalysis, 2021, 62, 160-171.	0.3	1
18	Niâ€“Cu High-Loaded Solâ€“Gel Catalysts for Dehydrogenation of Liquid Organic Hydrides: Insights into Structural Features and Relationship with Catalytic Activity. Nanomaterials, 2021, 11, 2017.	1.9	10

#	Article	IF	Citations
19	In Situ Study of Reduction of Mn_xCo_{3â€“x}O₄ Mixed Oxides: The Role of Manganese Content. Inorganic Chemistry, 2021, 60, 16518-16528.	1.9	7
20	Atomic Structure of Pd-, Pt-, and PdPt-Based Catalysts of Total Oxidation of Methane: In Situ EXAFS Study. Catalysts, 2021, 11, 1446.	1.6	4
21	CuFeAl-composite catalysts of oxidation of gasification products of solid fuels: In situ XAS and XRD study. Radiation Physics and Chemistry, 2020, 175, 108071.	1.4	6
22	Hydroprocessing of Maya vacuum residue using a NiMo catalyst supported on Cr-doped alumina. Fuel, 2020, 263, 116717.	3.4	13
23	Chemical and texture promoters in Cu-Fe-Al oxide nanocomposite catalysts for combustion of solid fuel gasification products. Applied Catalysis A: General, 2020, 590, 117364.	2.2	15
24	Structural, Textural, and Catalytic Properties of Ni-CexZr1â^'xO2 Catalysts for Methane Dry Reforming Prepared by Continuous Synthesis in Supercritical Isopropanol. Energies, 2020, 13, 3728.	1.6	6
25	New titania-based photocatalysts for hydrogen production from aqueous-alcoholic solutions of methylene blue. RSC Advances, 2020, 10, 34137-34148.	1.7	9
26	SiC_xN_yO_z Coatings Enhance Endothelialization and Bactericidal activity and Reduce Blood Cell Activation. ACS Biomaterials Science and Engineering, 2020, 6, 5571-5587.	2.6	9
27	Effect of Calcination Temperature on Activity of Fe2O3â€“Al2O3 Nanocomposite Catalysts in CO Oxidation. Catalysis Letters, 2020, 150, 3377-3385.	1.4	7
28	CuFeAl Nanocomposite Catalysts for Coal Combustion in Fluidized Bed. Nanomaterials, 2020, 10, 1002.	1.9	11
29	Kinetic and mechanistic study of CO oxidation over nanocomposite Cuâ^'Feâ^'Al oxide catalysts. ChemCatChem, 2020, 12, 4911-4921.	1.8	16
30	The Structure of Mixed Mnâ€“Co Oxide Catalysts for CO Oxidation. Topics in Catalysis, 2020, 63, 75-85.	1.3	9
31	Self-sustained Oscillations in Oxidation of Propane Over Nickel: Experimental Study and Mathematical Modelling. Topics in Catalysis, 2020, 63, 33-48.	1.3	1
32	Oscillatory Behavior in Oxidation of Propane Over Nickel Foil and Films. Topics in Catalysis, 2020, 63, 24-32.	1.3	5
33	SYNTHESIS OF MAGNETIC NANOCOMPOSITE FILMS SiCxNyFez BY PLASMA-ENHANCED CHEMICAL DECOMPOSITION OF A GASEOUS MIXTURE OF 1,1,1,3,3,3-HEXAMETHYLDISILAZANE, FERROCENE, AND HELIUM. Journal of Structural Chemistry, 2020, 61, 1865-1875.	0.3	2
34	A Mechanistic Study of Dehydrogenation of Propane over Vanadiaâ€“Titania Catalysts. Journal of Physical Chemistry C, 2019, 123, 19668-19680.	1.5	33
35	Nonclassical Adsorption of Methanol on Palladium: The Competition between Adsorption of Single Molecules and Clusters. Journal of Physical Chemistry C, 2019, 123, 7259-7265.	1.5	5
36	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.	1.9	20

#	Article	IF	Citations
37	NiCuMo-SiO2 catalyst for pyrolysis oil upgrading: Model acidic treatment study. Applied Catalysis A: General, 2019, 573, 1-12.	2.2	22
38	In Situ Study of Self-sustained Oscillations in Propane Oxidation and Propane Steam Reforming with Oxygen Over Nickel. Catalysis Letters, 2019, 149, 313-321.	1.4	11
39	SIMULATION OF VANADIUM OXIDE STRUCTURE ON ANATASE SURFACE BY DENSITY FUNCTIONAL THEORY. ChemChemTech, 2019, 62, 82-86.	0.1	0
40	In Situ NAP-XPS and Mass Spectrometry Study of the Oxidation of Propylene over Palladium. Journal of Physical Chemistry C, 2018, 122, 4315-4323.	1.5	16
41	Photoluminescence of oxygen vacancies in nanostructured Al2O3. Optical Materials, 2018, 75, 757-763.	1.7	32
42	Nonstoichiometric oxygen in Mnâ€“Gaâ€“O spinels: reduction features of the oxides and their catalytic activity. RSC Advances, 2018, 8, 11598-11607.	1.7	22
43	Temperature Hysteresis in the Reaction of Methane Oxidation on a Palladium-Doped Manganese Hexaaluminate Catalyst. Kinetics and Catalysis, 2018, 59, 70-82.	0.3	2
44	Structural features and surface composition of epitaxial Î±-FeSi2 films obtained by CVD. Materials and Design, 2018, 137, 422-429.	3.3	9
45	The Reasons for Nonlinear Phenomena in Oxidation of Methane over Nickel. Kinetics and Catalysis, 2018, 59, 810-819.	0.3	5
46	Structure of the Mo-Containing Dispersed Catalyst During Heavy Oil Upgrading in the Presence of Steam And Hydrogen. Journal of Structural Chemistry, 2018, 59, 1308-1316.	0.3	5
47	Structure and Chemistry of Cuâ€“Feâ€“Al Nanocomposite Catalysts for CO Oxidation. Catalysis Letters, 2018, 148, 3715-3722.	1.4	14
48	Hydrotreatment of 2â€Methoxyphenol over High Niâ€Loaded Solâ€Gel Catalysts: The Influence of Mo on Catalyst Activity and Reaction Pathways. ChemistrySelect, 2018, 3, 5153-5164.	0.7	15
49	A study on structural features of bimetallic Pd-M/C (M: Zn, Ga, Ag) catalysts for liquid-phase selective hydrogenation of acetylene. Applied Catalysis A: General, 2018, 563, 18-27.	2.2	44
50	Selective oxidation of ethanol over vanadia-based catalysts: The influence of support material and reaction mechanism. Catalysis Today, 2017, 279, 95-106.	2.2	43
51	The Nature of Defects Responsible for Transport in a Hafnia-Based Resistive Random Access Memory Element. , 2017, , 493-504.		1
52	Î´-Alumina supported cobalt catalysts promoted by ruthenium for Fischer-Tropsch synthesis. Applied Catalysis A: General, 2017, 539, 48-58.	2.2	26
53	Effect of the nature of sulfur compounds on their reactivity in the oxidative desulfurization of hydrocarbon fuels with oxygen over a modified CuZnAlO catalyst. Kinetics and Catalysis, 2017, 58, 58-72.	0.3	11
54	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.	2.1	25

#	Article	IF	Citations
55	Nickel molybdenum carbides: Synthesis, characterization, and catalytic activity in hydrodeoxygenation of anisole and ethyl caprate. Journal of Catalysis, 2017, 354, 61-77.	3.1	70
56	Design of micro-shell Cuâ€“Al porous ceramometals as catalysts for the waterâ€“gas shift reaction. RSC Advances, 2017, 7, 42443-42454.	1.7	11
57	Reversible Bulk Oxidation of Ni Foil During Oscillatory Catalytic Oxidation of Propane: A Novel Type of Spatiotemporal Self-Organization. Physical Review Letters, 2017, 119, 026001.	2.9	9
58	Size-Dependence of the Adsorption Energy of CO on Pt Nanoparticles: Tracing Two Intersecting Trends by DFT Calculations. Journal of Physical Chemistry C, 2017, 121, 17371-17377.	1.5	39
59	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.	1.1	8
60	Catalytic Abatement of VOC Over Novel Pt Fiberglass Catalysts. Topics in Catalysis, 2017, 60, 73-82.	1.3	16
61	Effect of Pt addition on sulfur dioxide and water vapor tolerance of Pd-Mn-hexaaluminate catalysts for high-temperature oxidation of methane. Applied Catalysis B: Environmental, 2017, 204, 89-106.	10.8	71
62	The Synthesis of Ce1 â€“ xZr x O2 Oxides in Supercritical Alcohols and Catalysts for Carbon Dioxide Reforming of Methane on Their Basis. Russian Journal of Physical Chemistry B, 2017, 11, 1312-1321.	0.2	6
63	Ni-loaded nanocrystalline ceria-zirconia solid solutions prepared via modified Pechini route as stable to coking catalysts of CH4 dry reforming. Open Chemistry, 2016, 14, 363-376.	1.0	23
64	Electrodeposited non-stoichiometric tungstic acid for electrochromic applications: film growth modes, crystal structure, redox behavior and stability. Applied Surface Science, 2016, 388, 786-793.	3.1	9
65	Thermal stability of Agâ€“Au, Cuâ€“Au, and Agâ€“Cu bimetallic nanoparticles supported on highly oriented pyrolytic graphite. Kinetics and Catalysis, 2016, 57, 704-711.	0.3	4
66	Synthesis of Siâ€“Câ€“Nâ€“Fe films from volatile organosilicon substances-precursors and ferrocene. Part II. Properties of SiC x N y Fe z films obtained by thermal decomposition of tris(diethylamino)silane and ferrocene. Glass Physics and Chemistry, 2016, 42, 490-496.	0.2	4
67	Yakutites: Are they impact diamonds from the Popigai crater?. Lithos, 2016, 265, 278-291.	0.6	14
68	CoMoNi Catalyst Texture and Surface Properties in Heavy Oil Processing. Part II: Macroporous Sepiolite-Like Mineral. Industrial & Engineering Chemistry Research, 2016, 55, 9129-9139.	1.8	5
69	Structure and properties of Pdâ€“Mn hexaaluminate catalysts modified with platinum for the high-temperature oxidation of methane. Kinetics and Catalysis, 2016, 57, 528-539.	0.3	5
70	Furfural Hydrogenation to Furfuryl Alcohol over Bimetallic Niâ€“Cu Solâ€“Gel Catalyst: A Model Reaction for Conversion of Oxygenates in Pyrolysis Liquids. Topics in Catalysis, 2016, 59, 1413-1423.	1.3	46
71	Gold nanoparticles supported on nanoscale amine-functionalized MIL-101(Cr) as a highly active catalyst for epoxidation of styrene. RSC Advances, 2016, 6, 106856-106865.	1.7	22
72	Mathematical modeling of self-oscillations in ethane oxidation over nickel. Kinetics and Catalysis, 2016, 57, 113-124.	0.3	3

#	Article	IF	Citations
73	Active component of supported vanadium catalysts in the selective oxidation of methanol. Kinetics and Catalysis, 2016, 57, 82-94.	0.3	23
74	Approaching better cycleability of LiCoPO4 by vanadium modification. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 213, 105-113.	1.7	13
75	Redox mechanism for selective oxidation of ethanol over monolayer V2O5/TiO2 catalysts. Journal of Catalysis, 2016, 338, 82-93.	3.1	70
76	Structure, chemistry and luminescence properties of dielectric La Hf1-O films. Materials Chemistry and Physics, 2016, 175, 200-205.	2.0	10
77	The composition of Ni-Mo phases obtained by NiMoOx-SiO2 reduction and their catalytic properties in anisole hydrogenation. Applied Catalysis A: General, 2016, 514, 224-234.	2.2	48
78	CoMoNi Catalyst Texture and Surface Properties in Heavy Oil Processing. Part I: Hierarchical Macro/Mesoporous Alumina Support. Industrial & Engineering Chemistry Research, 2016, 55, 3535-3545.	1.8	30
79	Evolution of self-sustained kinetic oscillations in the catalytic oxidation of propane over a nickel foil. Journal of Catalysis, 2016, 334, 23-33.	3.1	58
80	Theoretical Study of the Methanol Dehydrogenation on Platinum Nanocluster. Journal of Siberian Federal University: Chemistry, 2016, 9, 430-442.	0.1	3
81	Influence of the surface layer of hydrated silicon on the stabilization of Co²⁺ cations in Zrâ€“Si fiberglass materials according to XPS, UV-Vis DRS, and differential dissolution phase analysis. RSC Advances, 2015, 5, 79898-79905.	1.7	33
82	Origin of temperature oscillations of nickel catalyst occurring in methane oxidation. Kinetics and Catalysis, 2015, 56, 598-604.	0.3	21
83	Effect of Titania Regular Macroporosity on the Photocatalytic Hydrogen Evolution on Cd_{1â^'x}Zn_xS/TiO₂ Catalysts under Visible Light. ChemCatChem, 2015, 7, 4108-4117.	1.8	32
84	Synthesis of Siâ€“Câ€“Nâ€“Fe layers from volatile organosilicon precursors and ferrocene. part I. synthesis, chemical and phase composition of iron-containing layers prepared by thermal decomposition of ferrocene. Glass Physics and Chemistry, 2015, 41, 630-636.	0.2	4
85	Oxidation of propylene over Pd(5 5 1): Temperature hysteresis induced by carbon deposition and oxygen adsorption. Catalysis Today, 2015, 244, 29-35.	2.2	33
86	Oxidative dehydrogenation of propane by molecular chlorine. Applied Catalysis A: General, 2015, 505, 441-446.	2.2	10
87	Reduction of mixed Mnâ€“Zr oxides: in situ XPS and XRD studies. Dalton Transactions, 2015, 44, 15499-15507.	1.6	92
88	Synthesis and solar light catalytic properties of titaniaâ€“cadmium sulfide hybrid nanostructures. Catalysis Communications, 2015, 68, 61-66.	1.6	38
89	Selective hydrogenation of acetylene over Pd/Fiberglass catalysts: Kinetic and isotopic studies. Applied Catalysis A: General, 2015, 506, 197-205.	2.2	20
90	Mesoporous niobium-silicates prepared by evaporation-induced self-assembly as catalysts for selective oxidations with aqueous H2O2. Journal of Catalysis, 2015, 332, 138-148.	3.1	43

#	Article	IF	Citations
91	The nature of active sites in Ptâ€“ReO X /TiO 2 catalysts for selective hydrogenation of carboxylic acids to alcohols. Journal of Energy Chemistry, 2015, 24, 646-654.	7.1	27
92	Propane ammoxidation on Bi promoted MoVTeNbOx oxide catalysts: Effect of reaction mixture composition. Applied Catalysis A: General, 2015, 506, 109-117.	2.2	26
93	Selective hydrogenation of acetylene over novel Pd/fiberglass catalysts. Catalysis Today, 2015, 245, 139-146.	2.2	36
94	Influence of Mo on catalytic activity of Ni-based catalysts in hydrodeoxygenation of esters. Applied Catalysis B: Environmental, 2015, 163, 531-538.	10.8	103
95	A Novel Plasma-Chemical Process of Metallic Layer Deposition From Small-Size Volatile Metal Complexes. Advanced Materials Research, 2014, 875-877, 246-250.	0.3	1
96	Advanced passivation techniques for Si solar cells with high-Îº dielectric materials. Applied Physics Letters, 2014, 105, .	1.5	14
97	Effect of the Ni/Cu ratio on the composition and catalytic properties of nickel-copper alloy in anisole hydrodeoxygenation. Kinetics and Catalysis, 2014, 55, 69-78.	0.3	27
98	Growth, chemical composition, and structure of thin La x Hf1 â^' x O y films on Si. Inorganic Materials, 2014, 50, 158-164.	0.2	3
99	Selective oxidation of formaldehyde to formic acid over supported vanadia catalysts. Applied Catalysis A: General, 2014, 475, 98-108.	2.2	25
100	The origin of 2.7 eV luminescence and 5.2 eV excitation band in hafnium oxide. Applied Physics Letters, 2014, 104, 071904.	1.5	40
101	Thermalâ€•and Plasmaâ€Enhanced Copper Film Deposition via a Combined Synthesisâ€Transport CVD Technique. Chemical Vapor Deposition, 2014, 20, 170-176.	1.4	4
102	Selective oxidation of methanol to form dimethoxymethane and methyl formate over a monolayer V2O5/TiO2 catalyst. Journal of Catalysis, 2014, 311, 59-70.	3.1	114
103	Anisole hydrodeoxygenation over Niâ€“Cu bimetallic catalysts: The effect of Ni/Cu ratio on selectivity. Applied Catalysis A: General, 2014, 470, 261-270.	2.2	147
104	Decomposition and oxidation of methanol on platinum: A study by in situ X-ray photoelectron spectroscopy and mass spectrometry. Kinetics and Catalysis, 2014, 55, 509-519.	0.3	10
105	Effect of doping a cadmium sulfide-zinc sulfide solid solution with copper ions on its physicochemical properties and catalytic activity in hydrogen recovery from aqueous solutions under the action of visible radiation. Kinetics and Catalysis, 2014, 55, 528-533.	0.3	2
106	Novel photocatalysts based on Cd1â^'Zn S/Zn(OH)2 for the hydrogen evolution from water solutions of ethanol. International Journal of Hydrogen Energy, 2014, 39, 18758-18769.	3.8	32
107	Electronic Structure of Noncentrosymmetric Î±-GeO2 with Oxygen Vacancy: Ab Initio Calculations and Comparison with Experiment. Journal of Physical Chemistry C, 2014, 118, 3644-3650.	1.5	24
108	Mechanistic Study of Methanol Decomposition and Oxidation on Pt(111). Journal of Physical Chemistry C, 2013, 117, 8189-8197.	1.5	76

#	Article	IF	Citations
109	In situ XPS study of self-sustained oscillations in catalytic oxidation of propane over nickel. Surface Science, 2013, 609, 113-118.	0.8	82
110	Formation of small volatile complexes during copper film growth by the combined synthesis-transport method. Inorganic Materials, 2013, 49, 775-780.	0.2	2
111	Combined X-ray Absorption Near-Edge Structure and X-ray Photoelectron Study of the Electrocatalytically Active Cobalt(I) Cage Complexes and the Clathrochelate Cobalt(II)- and Cobalt(III)-Containing Precursors and Analogs. Journal of Physical Chemistry C, 2013, 117, 2753-2759.	1.5	49
112	Synthesis and properties of dielectric (HfO2)1 â˜' x (Sc2O3) x films. Inorganic Materials, 2013, 49, 172-178.	0.2	13
113	Atomic and electronic structures of lutetium oxide Lu2O3. Journal of Experimental and Theoretical Physics, 2013, 116, 323-329.	0.2	14
114	Electronic structure of oxygen vacancies in hafnium oxide. Microelectronic Engineering, 2013, 109, 21-23.	1.1	53
115	XPS and cathodoluminescence studies of HfO₂, Sc₂O₃and (HfO₂)1-x(Sc₂O₃)_xfilms. EPJ Applied Physics, 2013, 64, 10302.	0.3	23
116	In situ XPS and MS study of methanol decomposition and oxidation on Pd(111) under millibar pressure range. Surface Science, 2012, 606, 420-425.	0.8	42
117	Structure and composition of the surface layer of Zr-containing fiberglass materials. Journal of Non-Crystalline Solids, 2012, 358, 1053-1058.	1.5	9
118	Structure of HfO2 films and binary oxides on its base. Journal of Structural Chemistry, 2012, 53, 708-714.	0.3	6
119	Steam reforming of methane over Ni-substituted Sr hexaaluminates. Catalysis for Sustainable Energy, 2012, 1, .	0.7	3
120	Photocatalytic oxidation of ethanol vapors under visible light on CdSâ€“TiO2 nanocatalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 250, 103-109.	2.0	48
121	Performance of Ba-containing catalysts in the transesterification reaction of rapeseed oil with methanol under flow conditions. Catalysis Communications, 2012, 18, 156-160.	1.6	8
122	Ni-based solâ€“gel catalysts as promising systems for crude bio-oil upgrading: Guaiacol hydrodeoxygenation study. Applied Catalysis B: Environmental, 2012, 113-114, 296-307.	10.8	353
123	Mathematical simulation of self-oscillations in methane oxidation on nickel: An isothermal model. Kinetics and Catalysis, 2012, 53, 374-383.	0.3	13
124	Study of sorption of platinum and palladium cyanometallate complexes as the key to understanding the mechanism of binding the [Au(CN)2]â˜' anion with carbon adsorbents. Russian Journal of General Chemistry, 2012, 82, 384-397.	0.3	14
125	X-ray Photoelectron Spectroscopy Depth Profiling of La₂O₃/Si Thin Films Deposited by Reactive Magnetron Sputtering. ACS Applied Materials & Interfaces, 2011, 3, 4370-4373.	4.0	118
126	Electronic structure of Î´-Ta2O5 with oxygen vacancy: ab initio calculations and comparison with experiment. Journal of Applied Physics, 2011, 110, .	1.1	94

#	Article	IF	Citations
127	Influence of the method of platinum deposition on activity and stability of Pt/TiO2 photocatalysts in the photocatalytic oxidation of dimethyl methylphosphonate. Catalysis Communications, 2011, 12, 597-601.	1.6	62
128	Iron tetrasulfophthalocyanine immobilized on metal organic framework MIL-101: synthesis, characterization and catalytic properties. Dalton Transactions, 2011, 40, 1441.	1.6	82
129	A study of the structure of (HfO2) x (Al2O3)1â^'x /Si films by X-ray photoelectron spectroscopy. Journal of Structural Chemistry, 2011, 52, 480-487.	0.3	9
130	XPS for in situ study of the mechanisms of heterogeneous catalytic reactions. Journal of Structural Chemistry, 2011, 52, 90-101.	0.3	4
131	Effect of calcination temperature on the physicochemical and catalytic properties of FeSO4/SiO2 in hydrogen sulfide oxidation. Kinetics and Catalysis, 2011, 52, 896-906.	0.3	3
132	Ab initio simulation of the electronic structure of Î´-Ta2O5 with oxygen vacancy and comparison with experiment. Journal of Experimental and Theoretical Physics, 2011, 112, 1035-1041.	0.2	16
133	New technique for heterogeneous vapor-phase synthesis of nanostructured metal layers from low-dimensional volatile metal complexes. Technical Physics, 2011, 56, 1333-1338.	0.2	2
134	Catalytic combustion of methane on substituted strontium ferrites. Fuel, 2011, 90, 1245-1256.	3.4	29
135	From â€˜coreâ€“shellâ€™ to composite mixed cathode materials for rechargeable lithium batteries by mechanochemical process. Solid State Ionics, 2011, 192, 284-288.	1.3	18
136	Electronic structure of aluminum oxide: ab initio simulations ofÎ±andÎ³phases and comparison with experiment for amorphous films. EPJ Applied Physics, 2010, 52, 30501.	0.3	34
137	Formation of thin nanostructured layers during heterogeneous gas-phase synthesis from small-size volatile metal complexes on the surface of semiconductors and dielectrics. Technical Physics Letters, 2010, 36, 265-268.	0.2	1
138	MOCVD and Physicochemical Characterization of (HfO₂)_x(Al₂O₃)_{1â€x} Thin Films. Chemical Vapor Deposition, 2010, 16, 185-190.	1.4	13
139	Interfaces analysis of the HfO2/SiO2/Si structure. Journal of Physics and Chemistry of Solids, 2010, 71, 836-840.	1.9	14
140	Selective catalytic reduction of nitrogen oxide by ammonia on substituted strontium ferrites. Applied Catalysis A: General, 2010, 384, 230-240.	2.2	11
141	Catalytic combustion of methane on ferrites. Studies in Surface Science and Catalysis, 2010, , 355-359.	1.5	5
142	Preparation, active component and catalytic properties of supported vanadium catalysts in the reaction of formaldehyde oxidation to formic acid. Studies in Surface Science and Catalysis, 2010, 175, 463-466.	1.5	13
143	'Core-shell' Cathode Materials for Lithium-ion Batteries Prepared via Mechanochemical Route. ECS Transactions, 2009, 16, 21-29.	0.3	3
144	Structure and Transport Properties of Doped Apatite-type Lanthanum Silicates Prepared via Mechanochemical Route. ECS Transactions, 2009, 25, 1791-1800.	0.3	5

#	Article	IF	Citations
145	The influence of the active component and support nature, gas mixture composition on physicochemical and catalytic properties of catalysts for soot oxidation. Journal of Molecular Catalysis A, 2009, 310, 101-112.	4.8	12
146	Selective catalytic reduction of nitrogen oxide by ammonia on Mn(Fe)-substituted Sr(La) aluminates. Applied Catalysis A: General, 2009, 357, 193-205.	2.2	43
147	LiMn2O4 and LiCoO2 composite cathode materials obtained by mechanical activation. Russian Journal of Electrochemistry, 2009, 45, 277-285.	0.3	17
148	HfO2-High-k Dielectric for Nanoelectronics. ECS Transactions, 2009, 25, 875-880.	0.3	5
149	Thin films of (HfO<inf>2</inf>)<inf>x</inf>(Al<inf>2</inf>O<inf>3</inf>)<inf>1−x</inf> alloys: Preparation, chemical structure and dielectric properties. , 2009, , .		
150	Chapter 4 Xâ€Ray Photoelectron Spectroscopy for Investigation of Heterogeneous Catalytic Processes. Advances in Catalysis, 2009, , 213-272.	0.1	105
151	Chemical vapor deposition and characterization of hafnium oxide films. Journal of Physics and Chemistry of Solids, 2008, 69, 685-687.	1.9	40
152	Surface chemistry study of LiCoO2 coated with alumina. Solid State Ionics, 2008, 179, 1745-1749.	1.3	52
153	Effect of electronic state of ions on the electrochemical properties of layered cathode materials LiNi1âˆ'2x Co x Mn x O2. Russian Journal of Electrochemistry, 2008, 44, 543-549.	0.3	7
154	Composition and structure of hafnia films on silicon. Inorganic Materials, 2008, 44, 965-970.	0.2	27
155	Plasma-chemical deposition of SiCN films from volatile N-bromhexamethyldisilazane. Inorganic Materials, 2008, 44, 1312-1318.	0.2	8
156	Texture and surface properties of carbon-silica nanocomposite materials prepared by the carbonization of high-ash vegetable raw materials in a fluidized catalyst bed. Kinetics and Catalysis, 2008, 49, 305-312.	0.3	12
157	Vanadium-titanium oxides: Sol-gel synthesis and catalytic properties in chlorobenzene oxidation. Kinetics and Catalysis, 2008, 49, 446-450.	0.3	4
158	Mixed layered Niâ€“Mnâ€“Co hydroxides: Crystal structure, electronic state of ions, and thermal decomposition. Journal of Power Sources, 2007, 174, 735-740.	4.0	124
159	LiNi1 âˆ' x âˆ' y Co x Mn y O2 (x = y = 0.1, 0.2, 0.33) cathode materials prepared using mechanical activation: Structure, state of ions, and electrochemical performance. Inorganic Materials, 2007, 43, 185-193.	0.2	9
160	Effect of the calcination temperature on the properties of Fe2O3/SiO2 catalysts for oxidation of hydrogen sulfide. Reaction Kinetics and Catalysis Letters, 2007, 92, 89-97.	0.6	30
161	Optimization of Ni2+/Ni3+ ratio in layered Li(Ni,Mn,Co)O2 cathodes for better electrochemistry. Journal of Power Sources, 2007, 174, 965-969.	4.0	183
162	Structure of the active component and catalytic properties of catalysts prepared by the reduction of layered nickel aluminosilicates. Kinetics and Catalysis, 2006, 47, 412-422.	0.3	6

#	Article	IF	Citations
163	Chemical properties of the surface of nanofibrous carbonaceous materials produced by catalytic methane decomposition. Russian Journal of Physical Chemistry A, 2006, 80, 886-891.	0.1	5
164	X-ray photoelectron spectroscopy as a tool for in-situ study of the mechanisms of heterogeneous catalytic reactions. Topics in Catalysis, 2005, 32, 3-15.	1.3	69
165	Plasma Deposition and Properties of Silicon Carbonitride Films. Inorganic Materials, 2005, 41, 706-712.	0.2	7
166	Preparation and Properties of Thin HfO2 Films. Inorganic Materials, 2005, 41, 1300-1304.	0.2	19
167	Propane oxidation on nickel in a self-oscillation mode. Kinetics and Catalysis, 2005, 46, 251-259.	0.3	20
168	Activation of the C-O bond on the surface of palladium: An In situ study by X-ray photoelectron spectroscopy and sum frequency generation. Kinetics and Catalysis, 2005, 46, 269-281.	0.3	22
169	Mobility and reactivity of lattice oxygen in Gd-doped ceria promoted by Pt. Reaction Kinetics and Catalysis Letters, 2005, 85, 367-374.	0.6	14
170	Mobility and reactivity of the lattice oxygen of Pr-doped ceria promoted with Pt. Reaction Kinetics and Catalysis Letters, 2005, 86, 21-28.	0.6	14
171	Structural and catalytic properties of ultra-dispersed silver powders prepared by metal evaporation with high-power electron beam. 2. Catalytic properties in ethylene epoxidation with molecular oxygen. Reaction Kinetics and Catalysis Letters, 2005, 86, 187-193.	0.6	0
172	Nanostructured, Gd-Doped Ceria Promoted by Pt or Pd:Â Investigation of the Electronic and Surface Structures and Relations to Chemical Properties. Journal of Physical Chemistry B, 2005, 109, 20077-20086.	1.2	74
173	Electronic and Chemical Properties of Nanostructured Cerium Dioxide Doped with Praseodymium. Journal of Physical Chemistry B, 2005, 109, 5728-5738.	1.2	175
174	Câ€“O bond scission on â€œdefect-rich and perfectâ€•Pd(111)?. Surface Science, 2004, 566-568, 1024-1029.	0.8	44
175	CO dissociation and CO hydrogenation on smooth and ion-bombarded Pd(111): SFG and XPS spectroscopy at mbar pressures. Applied Surface Science, 2004, 235, 26-31.	3.1	42
176	Methanol Dehydrogenation and Formation of Carbonaceous Overlayers on Pd(111) Studied by High-Pressure SFG and XPS Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 12955-12961.	1.2	93
177	Title is missing!. Inorganic Materials, 2003, 39, 366-373.	0.2	24
178	In situ study of selective oxidation of methanol to formaldehyde over copper. Reaction Kinetics and Catalysis Letters, 2003, 79, 181-188.	0.6	43
179	The Nature of Electrophilic and Nucleophilic Oxygen Adsorbed on Silver. Kinetics and Catalysis, 2003, 44, 432-440.	0.3	56
180	Title is missing!. Journal of Structural Chemistry, 2003, 44, 169-173.	0.3	10

#	Article	IF	Citations
181	Title is missing!. High Energy Chemistry, 2003, 37, 303-309.	0.2	12
182	In Situ Study of the Selective Oxidation of Methanol to Formaldehyde on Copper. Kinetics and Catalysis, 2003, 44, 662-668.	0.3	23
183	SiCN alloys obtained by remote plasma chemical vapour deposition from novel precursors. Thin Solid Films, 2003, 429, 144-151.	0.8	60
184	Electronic state of cobalt and oxygen ions in stoichiometric and nonstoichiometric Li1+xCoO2 before and after delithiation according to XPS and DRS. Journal of Power Sources, 2003, 119-121, 669-673.	4.0	46
185	Characterization of the nickel-amesite-chlorite-vermiculite system.. Physical Chemistry Chemical Physics, 2003, 5, 4025.	1.3	23
186	High-Pressure Studies of CO Adsorption on Pd(111) by X-ray Photoelectron Spectroscopy and Sum-Frequency Generation. Journal of Physical Chemistry B, 2003, 107, 3522-3527.	1.2	96
187	Atomic oxygen species on silver: Photoelectron spectroscopy and x-ray absorption studies. Physical Review B, 2003, 67, .	1.1	135
188	An Information Measuring System for Thermodesorption Studies. Instruments and Experimental Techniques, 2002, 45, 50-54.	0.1	9
189	Electronic State of Ions in Mechanochemically Prepared Intercalation Lithium-Transition Metal Oxide Compounds. , 2002, , 515-522.		0
190	Silicon carbon nitride films as new materials obtained by plasma chemical vapor deposition from novel precursor. , 2001, 4467, 366.		0
191	Combined application of XANES and XPS to study oxygen species adsorbed on Ag foil. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 470, 302-305.	0.7	10
192	Metalâ€“support interactions in cobalt-aluminum co-precipitated catalysts: XPS and CO adsorption studies. Journal of Molecular Catalysis A, 2001, 175, 189-204.	4.8	245
193	Title is missing!. Catalysis Letters, 2001, 74, 121-125.	1.4	42
194	A Multipurpose UV-Visible Spectroscopic System. Instruments and Experimental Techniques, 2001, 44, 375-380.	0.1	5
195	Title is missing!. Kinetics and Catalysis, 2001, 42, 837-846.	0.3	13
196	The combined application of XPS and TPD to study of oxygen adsorption on graphite-supported silver clusters. Journal of Molecular Catalysis A, 2000, 158, 167-172.	4.8	40
197	XPS study of the silica-supported Fe-containing catalysts for deep or partial H2S oxidation. Journal of Molecular Catalysis A, 2000, 158, 251-255.	4.8	67
198	XPS, UPS, TPD and TPR studies of oxygen species active in silver-catalysed ethylene epoxidation. Catalysis Letters, 1999, 57, 233-239.	1.4	32

#	Article	IF	Citations
199	Oxygen adsorption on Ag(111): X-ray photoelectron spectroscopy (XPS), angular dependent x-ray photoelectron spectroscopy (ADXPS) and temperature-programmed desorption (TPD) studies. Journal of Chemical Physics, 1999, 111, 2169-2175.	1.2	82