

# Andrei Boronin

## List of Publications by Year in descending order

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215  
papers

6,745  
citations

61945

43  
h-index

82499

72  
g-index

217  
all docs

217  
docs citations

217  
times ranked

7300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-support interactions in Pt/Al <sub>2</sub> O <sub>3</sub> and Pd/Al <sub>2</sub> O <sub>3</sub> catalysts for CO oxidation. Applied Catalysis B: Environmental, 2010, 97, 57-71.	10.8	343
2	Structure and electrical conductivity of nitrogen-doped carbon nanofibers. Carbon, 2009, 47, 1922-1929.	5.4	330
3	In Situ XRD, XPS, TEM, and TPR Study of Highly Active in CO Oxidation CuO Nanopowders. Journal of Physical Chemistry C, 2013, 117, 14588-14599.	1.5	186
4	Low-temperature CO oxidation by Pd/CeO <sub>2</sub> catalysts synthesized using the coprecipitation method. Applied Catalysis B: Environmental, 2015, 166-167, 91-103.	10.8	167
5	Investigation of palladium interaction with cerium oxide and its state in catalysts for low-temperature CO oxidation. Catalysis Today, 2009, 144, 201-211.	2.2	161
6	X-ray photoelectron spectroscopy study of Pd oxidation by RF discharge in oxygen. Applied Surface Science, 2009, 255, 9248-9254.	3.1	151
7	Highly Oxidized Palladium Nanoparticles Comprising Pd <sup>4+</sup> Species: Spectroscopic and Structural Aspects, Thermal Stability, and Reactivity. Journal of Physical Chemistry C, 2012, 116, 19342-19348.	1.5	129
8	Pt nanoclusters stabilized by N-doped carbon nanofibers for hydrogen production from formic acid. Journal of Catalysis, 2013, 307, 94-102.	3.1	126
9	Highly active PdCeO composite catalysts for low-temperature CO oxidation, prepared by plasma-arc synthesis. Applied Catalysis B: Environmental, 2014, 147, 132-143.	10.8	119
10	In situ preparation and investigation of Pd/CeO <sub>2</sub> catalysts for the low-temperature oxidation of CO. Applied Catalysis A: General, 2012, 439-440, 41-50.	2.2	115
11	XPS and UPS study of oxygen states on silver. Journal of Electron Spectroscopy and Related Phenomena, 1998, 96, 43-51.	0.8	113
12	Stages in the Modification of a Silver Surface for Catalysis of the Partial Oxidation of Ethylene. Journal of Catalysis, 1994, 150, 262-267.	3.1	104
13	The investigation of oxidized silver nanoparticles prepared by thermal evaporation and radio-frequency sputtering of metallic silver under oxygen. Applied Surface Science, 2010, 257, 404-413.	3.1	87
14	Protective ceramic multilayer coatings for carbon fibers. Surface and Coatings Technology, 2006, 201, 2313-2319.	2.2	85
15	The local structure of Pd <sub>x</sub> Ce <sub>1-x</sub> O <sub>2</sub> solid solutions. Physical Chemistry Chemical Physics, 2014, 16, 13523-13539.	1.3	84
16	Investigation of oxygen states and reactivities on a nanostructured cupric oxide surface. Applied Surface Science, 2011, 257, 8542-8549.	3.1	83
17	Ruthenium nanoparticles supported on nitrogen-doped carbon nanofibers for the catalytic wet air oxidation of phenol. Applied Catalysis B: Environmental, 2014, 146, 177-185.	10.8	83
18	CO oxidation activity of Pt/CeO <sub>2</sub> catalysts below 0 °C: platinum loading effects. Applied Catalysis B: Environmental, 2021, 286, 119931.	10.8	83

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19	Performance of Ni/CeO <sub>2</sub> catalysts for selective CO methanation in hydrogen-rich gas. Chemical Engineering Journal, 2014, 238, 189-197.	6.6	82
20	Nitrogen doped carbon nanotubes and nanofibers: Composition, structure, electrical conductivity and capacity properties. Carbon, 2017, 122, 475-483.	5.4	82
21	XPS Study of Nanostructured Rhodium Oxide Film Comprising Rh <sup>4+</sup> Species. Journal of Physical Chemistry C, 2016, 120, 19142-19150.	1.5	81
22	Effect of dispersion of supported palladium on its electronic and catalytic properties in the hydrogenation of vinylacetylene. Applied Catalysis, 1988, 42, 131-141.	1.1	78
23	On the nature of the interaction of H <sub>2</sub> PdCl <sub>4</sub> with the surface of graphite-like carbon materials. Carbon, 1997, 35, 73-82.	5.4	78
24	XPS and UPS studies of oxygen adsorption over clean and carbon-modified silver surfaces. Surface Science, 1988, 201, 195-210.	0.8	75
25	Metal-support interaction in Pd/CeO <sub>2</sub> model catalysts for CO oxidation: from pulsed laser-ablated nanoparticles to highly active state of the catalyst. Catalysis Science and Technology, 2016, 6, 6650-6666.	2.1	74
26	Stages in the Modification of a Silver Surface for Catalysis of the Partial Oxidation of Ethylene. Journal of Catalysis, 1994, 150, 268-273.	3.1	73
27	Effect of Pd/C dispersion on its catalytic properties in acetylene and vinylacetylene hydrogenation. Applied Catalysis, 1989, 54, 277-288.	1.1	70
28	The Thermal Stability of Nanodiamond Surface Groups and Onset of Nanodiamond Graphitization. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 557-564.	1.0	70
29	Structural Insight into Strong Pt-CeO <sub>2</sub> Interaction: From Single Pt Atoms to Pt Clusters. Journal of Physical Chemistry C, 2019, 123, 1320-1334.	1.5	69
30	Study of cupric oxide nanopowders as efficient catalysts for low-temperature CO oxidation. Journal of Molecular Catalysis A, 2013, 368-369, 95-106.	4.8	68
31	An XPS investigation of the chemisorption of oxygen on the iridium (111) surface. Surface Science, 1976, 61, 25-36.	0.8	66
32	Carbon films grown on Pt(111) as supports for model gold catalysts. Surface Science, 2006, 600, 2688-2695.	0.8	64
33	Ruthenium Clusters on Carbon Nanofibers for Formic Acid Decomposition: Effect of Doping the Support with Nitrogen. ChemCatChem, 2015, 7, 2910-2917.	1.8	64
34	Highly Oxidized Platinum Nanoparticles Prepared through Radio-Frequency Sputtering: Thermal Stability and Reaction Probability towards CO. ChemPhysChem, 2015, 16, 3318-3324.	1.0	63
35	Microwave assisted synthesis of CuS-reduced graphene oxide nanocomposite with efficient photocatalytic activity towards azo dye degradation. Journal of Environmental Chemical Engineering, 2016, 4, 4600-4611.	3.3	61
36	Structural and chemical states of palladium in Pd/Al <sub>2</sub> O <sub>3</sub> catalysts under self-sustained oscillations in reaction of CO oxidation. Applied Catalysis A: General, 2011, 401, 83-97.	2.2	60

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37	XPS, UPS, and STM studies of nanostructured CuO films. <i>Journal of Structural Chemistry</i> , 2008, 49, 341-347.	0.3	59
38	An XPS and UPS study of the kinetics of carbon monoxide oxidation over Ag(111). <i>Surface Science</i> , 1982, 118, 369-386.	0.8	57
39	Oxidation of the polycrystalline gold foil surface and XPS study of oxygen states in oxide layers. <i>Moscow University Chemistry Bulletin</i> , 2007, 62, 343-349.	0.2	54
40	Associative oxygen species on the oxidized silver surface formed under O <sub>2</sub> microwave excitation. <i>Applied Surface Science</i> , 2000, 165, 9-14.	3.1	49
41	Studies of the mechanism of ammonia oxidation into nitrous oxide over Mn <sup>2+</sup> -Bi <sup>3+</sup> -O <sup>2-</sup> -Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Journal of Catalysis</i> , 2004, 222, 129-142.	3.1	46
42	Interface interactions and CO oxidation activity of Ag/CeO <sub>2</sub> catalysts: A new approach using model catalytic systems. <i>Applied Catalysis A: General</i> , 2019, 570, 51-61.	2.2	46
43	Structural properties of Pd catalysts supported on Al <sub>2</sub> O <sub>3</sub> -La <sub>2</sub> O <sub>3</sub> prepared by sol-gel method. <i>Applied Catalysis B: Environmental</i> , 1998, 17, 221-231.	10.8	45
44	Mechanisms of Pd(110) surface reconstruction and oxidation: XPS, LEED and TDS study. <i>Surface Science</i> , 2006, 600, 4119-4125.	0.8	45
45	Two oxygen states and the role of carbon in partial oxidation of ethylene over silver. <i>Surface Science</i> , 1990, 232, L205-L209.	0.8	43
46	A new approach to the mechanism of heterogeneously catalysed reactions: the oxydehydrogenation of ammonia at a Cu(111) surface. <i>Catalysis Letters</i> , 1992, 16, 345-350.	1.4	43
47	Thermal activation of Pd/CeO <sub>2</sub> -SnO <sub>2</sub> catalysts for low-temperature CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119275.	10.8	43
48	Transformation of a Pt-CeO <sub>2</sub> Mechanical Mixture of Pulsed-Laser Ablated Nanoparticles to a Highly Active Catalyst for Carbon Monoxide Oxidation. <i>ChemCatChem</i> , 2018, 10, 2232-2247.	1.8	41
49	Deep desulphurization of diesel fuels on bifunctional monolithic nanostructured Pt-zeolite catalysts. <i>Catalysis Today</i> , 2009, 144, 235-250.	2.2	39
50	Active surface formation and catalytic activity of phosphorous-promoted electrolytic silver in the selective oxidation of ethylene glycol to glyoxal. <i>Applied Catalysis A: General</i> , 2008, 344, 142-149.	2.2	38
51	Palladium Nanoparticles Supported on Nitrogen-Doped Carbon Nanofibers: Synthesis, Microstructure, Catalytic Properties, and Self-Sustained Oscillation Phenomena in Carbon Monoxide Oxidation. <i>ChemCatChem</i> , 2014, 6, 2115-2128.	1.8	38
52	Insight into the Nature of Active Species of Pt/Al <sub>2</sub> O <sub>3</sub> Catalysts for low Temperature NH <sub>3</sub> Oxidation. <i>ChemCatChem</i> , 2020, 12, 867-880.	1.8	38
53	Ultradisperse Pt nanoparticles anchored on defect sites in oxygen-free few-layer graphene and their catalytic properties in CO oxidation. <i>Carbon</i> , 2015, 89, 290-299.	5.4	37
54	Study of active surface centers of Pt/CeO <sub>2</sub> catalysts prepared using radio-frequency plasma sputtering technique. <i>Surface Science</i> , 2019, 679, 273-283.	0.8	37

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55	An XPS study of the composition of iridium films obtained by MO CVD. <i>Surface Science</i> , 1992, 275, 323-331.	0.8	36
56	State of palladium in palladium-aluminosilicate catalysts as studied by XPS and the catalytic activity of the catalysts in the deep oxidation of methane. <i>Kinetics and Catalysis</i> , 2007, 48, 728-734.	0.3	36
57	Structure and State of Copper Oxide Species Supported on Ytria-Stabilized Zirconia. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21368-21375.	1.5	36
58	Low-temperature catalytic CO oxidation over mixed silver-copper oxide Ag <sub>2</sub> Cu <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis A: General</i> , 2016, 510, 64-73.	2.2	36
59	Decomposition of ethylene and a mechanism of graphite formation on the Pt(110) surface. <i>Surface Science</i> , 1991, 258, 289-301.	0.8	35
60	Effect of Fe/Ni catalyst composition on nitrogen doping and field emission properties of carbon nanotubes. <i>Carbon</i> , 2008, 46, 864-869.	5.4	35
61	Platinum nanoparticles supported on nitrogen-containing carbon nanofibers. <i>Catalysis Today</i> , 2012, 186, 42-47.	2.2	33
62	Nitric oxide adsorption and decomposition on the (111) and (110) surfaces of iridium*1. <i>Journal of Catalysis</i> , 1979, 60, 93-99.	3.1	32
63	Redox and Catalytic Properties of Rh <sub>x</sub> Ce <sub>1-x</sub> O <sub>2</sub> Solid Solution. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26925-26938.	1.5	31
64	Oxygen species on the silver surface oxidized by MW-discharge. <i>Surface Science</i> , 2010, 604, 1185-1192.	0.8	30
65	Spectroscopic study of nitrogen distribution in N-doped carbon nanotubes and nanofibers synthesized by catalytic ethylene-ammonia decomposition. <i>Applied Surface Science</i> , 2018, 435, 1273-1284.	3.1	30
66	Defect induced lowering of work function in graphite-like materials. <i>Diamond and Related Materials</i> , 2002, 11, 813-818.	1.8	29
67	Gas-phase synthesis of nitrogen-containing carbon nanotubes and their electronic properties. <i>Physics of the Solid State</i> , 2002, 44, 652-655.	0.2	29
68	The structure and catalytic properties of Rh-doped CeO <sub>2</sub> catalysts. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31883-31897.	1.3	29
69	Platinum state in highly active Pt/CeO <sub>2</sub> catalysts from the X-ray photoelectron spectroscopy data. <i>Journal of Structural Chemistry</i> , 2017, 58, 1152-1159.	0.3	29
70	Carbon monoxide oxidation by nitric oxide on iridium (111) studied by x-ray and uv-photoelectron spectroscopy. <i>Applications of Surface Science</i> , 1977, 1, 25-32.	1.0	27
71	The yttria-stabilized zirconia and interfacial coating on Nicalon <sup>®</sup> fiber. <i>Journal of the European Ceramic Society</i> , 2006, 26, 1725-1736.	2.8	27
72	Self-sustained oscillations in CO oxidation reaction on PdO/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Chemical Engineering Science</i> , 2012, 83, 149-158.	1.9	27

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73	Synthesis, Properties, and Dispersion of Few-Layer Graphene Fluoride. Chemistry - an Asian Journal, 2013, 8, 2015-2022.	1.7	27
74	An XPS and UPS investigation of the chemisorption of CO on Ir(111).. Chemical Physics Letters, 1976, 44, 528-532.	1.2	26
75	The chemisorption of carbon monoxide on iridium and platinum studied by UV- and X-Ray photoelectron spectroscopy. Surface Science, 1978, 71, 267-278.	0.8	26
76	Study of high-temperature oxygen states on the silver surface by XPS and UPS. Catalysis Letters, 1997, 47, 111-117.	1.4	26
77	Physicochemical and catalytic properties of glass crystal catalysts for the oxidation of methane. Journal of Molecular Catalysis A, 2000, 158, 209-214.	4.8	26
78	Phase transformations in the thermoactivated MnOx-Al <sub>2</sub> O <sub>3</sub> catalytic system. Journal of Molecular Catalysis A, 2002, 179, 213-220.	4.8	26
79	Thermally Induced Structural Evolution of Palladium-Ceria Catalysts. Implication for CO Oxidation. ChemCatChem, 2019, 11, 3505-3521.	1.8	26
80	<i>In situ</i> probing of Pt/TiO <sub>2</sub> activity in low-temperature ammonia oxidation. Catalysis Science and Technology, 2021, 11, 250-263.	2.1	26
81	A correlation between structural changes in a Ni-Cu catalyst during decomposition of ethylene/ammonia mixture and properties of nitrogen-doped carbon nanofibers. Journal of Energy Chemistry, 2013, 22, 270-278.	7.1	25
82	Highly active and durable Pd/Fe <sub>2</sub> O <sub>3</sub> catalysts for wet CO oxidation under ambient conditions. Catalysis Science and Technology, 2016, 6, 3918-3928.	2.1	25
83	Novel microdesign of oxidation catalysts. Part 2. The influence of fluorination on the catalytic properties of glass crystal microspheres. Catalysis Today, 1998, 42, 273-277.	2.2	24
84	Pt/CeO <sub>2</sub> and Pt/CeSnO <sub>x</sub> Catalysts for Low-Temperature CO Oxidation Prepared by Plasma-Arc Technique. Frontiers in Chemistry, 2019, 7, 114.	1.8	24
85	Thermal Behavior of Fluorinated Double-Walled Carbon Nanotubes. Chemistry of Materials, 2006, 18, 4967-4971.	3.2	23
86	Reactivity and thermal stability of oxidized copper clusters on the tantalum(V) oxide surface. Kinetics and Catalysis, 2013, 54, 497-504.	0.3	23
87	Ceria-Zirconia Nanoparticles Doped with La or Gd: Effect of the Doping Cation on the Real Structure. Solid State Phenomena, 2007, 128, 81-88.	0.3	22
88	Investigation of active metal species formation in Pd-promoted sulfated zirconia isomerization catalyst. Applied Catalysis A: General, 2010, 387, 5-12.	2.2	22
89	Observation of the superstructural diffraction peak in the nitrogen doped carbon nanotubes: Simulation of the structure. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 520-530.	1.0	22
90	Encapsulation of molecular nitrogen in multiwall CN <sub>x</sub> nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4078-4081.	0.7	21

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91	Terbium oxide films grown by chemical vapor deposition from terbium(III) dipivaloylmethanate. <i>Inorganic Materials</i> , 2014, 50, 379-386.	0.2	21
92	Influence of the nitrogen-doped carbon nanofibers on the catalytic properties of supported metal and oxide nanoparticles. <i>Catalysis Today</i> , 2018, 301, 125-133.	2.2	21
93	Surface dynamics of mixed silver-copper oxide AgCuO <sub>2</sub> during X-ray photoelectron spectroscopy study. <i>Applied Surface Science</i> , 2019, 463, 300-309.	3.1	21
94	XPS and STM study of carbon deposits at the surface of platinum (110). <i>Applied Surface Science</i> , 1997, 120, 239-242.	3.1	20
95	TDS and XPS study of oxygen diffusion into subsurface layers of Pd(110). <i>Reaction Kinetics and Catalysis Letters</i> , 2005, 86, 371-379.	0.6	20
96	Chaotic dynamics in the three-variable kinetic model of CO oxidation on platinum group metals. <i>Chemical Engineering Journal</i> , 2009, 154, 82-87.	6.6	20
97	Characterization of alumina-supported uranium oxide catalysts in methane oxidation. <i>Catalysis Today</i> , 2010, 157, 217-222.	2.2	20
98	An active phase transformation on surface of Ni-Au/Al <sub>2</sub> O <sub>3</sub> catalyst during partial oxidation of methane to synthesis gas. <i>Kinetics and Catalysis</i> , 2010, 51, 573-578.	0.3	20
99	Low temperature hydrogen purification from CO for fuel cell application over copper-ceria catalysts supported on different oxides. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1271-1275.	3.8	20
100	Oxidizing Properties of the Polysulfide Surfaces of Patronite VS <sub>4</sub> and NbS <sub>3</sub> Induced by (S <sub>2</sub> ) <sup>2+</sup> Groups: Unusual Formation of Ag <sub>2</sub> S Nanoparticles. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700999.	1.9	19
101	Effect of Pd-precursor and support acid properties on the Pd electronic state and the hydrodesulfurization activity of Pd-zeolite catalysts. <i>Catalysis Today</i> , 2019, 323, 257-270.	2.2	19
102	From highly dispersed Rh <sup>3+</sup> to nanoclusters and nanoparticles: Probing the low-temperature NO+CO activity of Rh-doped CeO <sub>2</sub> catalysts. <i>Applied Surface Science</i> , 2019, 493, 1055-1066.	3.1	19
103	Nitrogen Doped Carbon Nanotubes and Nanofibers for Green Hydrogen Production: Similarities in the Nature of Nitrogen Species, Metal-Nitrogen Interaction, and Catalytic Properties. <i>Energies</i> , 2019, 12, 3976.	1.6	19
104	The Effects of Platinum Dispersion and Pt State on Catalytic Properties of Pt/Al <sub>2</sub> O <sub>3</sub> in NH <sub>3</sub> Oxidation. <i>ChemCatChem</i> , 2021, 13, 313-327.	1.8	19
105	Structural and catalytic properties of Pd/Al <sub>2</sub> O <sub>3</sub> -La <sub>2</sub> O <sub>3</sub> catalysts. <i>Catalysis Today</i> , 2000, 55, 301-309.	2.2	18
106	Effect of Pd deposition procedure on activity of Pd/Ce <sub>0.5</sub> Sn <sub>0.5</sub> O <sub>2</sub> catalysts for low-temperature CO oxidation. <i>Catalysis Communications</i> , 2016, 73, 34-38.	1.6	18
107	The decomposition of mixed oxide Ag <sub>2</sub> Cu <sub>2</sub> O <sub>3</sub> : Structural features and the catalytic properties in CO and C <sub>2</sub> H <sub>4</sub> oxidation. <i>Applied Surface Science</i> , 2018, 427, 363-374.	3.1	18
108	Influence of Titania Synthesized by Pulsed Laser Ablation on the State of Platinum during Ammonia Oxidation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4699.	1.3	18



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109	Probing of Pd <sup>4+</sup> Species in a PdO/CeO <sub>2</sub> System by X-Ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20845-20854.	1.5	18
110	ARXPS-based concentration profiles restoration applied to adsorbate/metal systems. <i>Surface Science</i> , 1992, 271, 493-500.	0.8	17
111	Quasimolecular stable forms of oxygen on silver surface. Theoretical analysis by the density functional theory method. <i>Journal of Molecular Catalysis A</i> , 2000, 154, 257-270.	4.8	17
112	Low-temperature oxidation of carbon monoxide on Pd(Pt)/CeO <sub>2</sub> catalysts prepared from complex salts. <i>Kinetics and Catalysis</i> , 2011, 52, 282-295.	0.3	17
113	An XPS and TPD study of gold oxide films obtained by exposure to RF-activated oxygen. <i>Journal of Structural Chemistry</i> , 2015, 56, 557-565.	0.3	17
114	Mixed silver-nickel oxide AgNiO <sub>2</sub> : Probing by CO during XPS study. <i>Journal of Chemical Physics</i> , 2020, 152, 044707.	1.2	16
115	Influence of an interaction of PdCl <sub>2</sub> with carbon support on state and catalytic properties of Pd/C catalysts. <i>Studies in Surface Science and Catalysis</i> , 1995, 91, 977-987.	1.5	15
116	In situ IR Spectroscopic and XPS Study of Surface Complexes and Their Transformations during Ammonia Oxidation to Nitrous Oxide over an Mn-Bi-O/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Kinetics and Catalysis</i> , 2005, 46, 555-564.	0.3	15
117	Design and characterization of LSM/ScCeSZ nanocomposite as mixed ionic-electronic conducting material for functionally graded cathodes of solid oxide fuel cells. <i>Solid State Ionics</i> , 2011, 192, 540-546.	1.3	15
118	Physicochemical investigation of nanopowders prepared by laser ablation of crystalline silicon in water. <i>Advanced Powder Technology</i> , 2015, 26, 478-486.	2.0	15
119	Features of the interaction of a CO + O <sub>2</sub> mixture with silver under high pressure. <i>Surface Science</i> , 1993, 293, L826-L829.	0.8	14
120	Physicochemical investigation of the copper and silver catalysts of the ethylene glycol oxidation. <i>Journal of Molecular Catalysis A</i> , 2000, 158, 381-387.	4.8	14
121	Copper-cerium oxide catalysts for the selective oxidation of carbon monoxide in hydrogen-containing mixtures: I. Catalytic activity. <i>Kinetics and Catalysis</i> , 2007, 48, 439-447.	0.3	14
122	Effect of preparation procedure on the properties of CeO <sub>2</sub> . <i>Kinetics and Catalysis</i> , 2010, 51, 143-148.	0.3	14
123	(CuO-CeO <sub>2</sub> )/glass cloth catalysts for selective CO oxidation in the presence of H <sub>2</sub> : The effect of the nature of the fuel component used in their surface self-propagating high-temperature synthesis on their properties. <i>Kinetics and Catalysis</i> , 2013, 54, 59-68.	0.3	14
124	The State of Platinum and Structural Features of Pt/Al <sub>2</sub> O <sub>3</sub> Catalysts in the Reaction of NH <sub>3</sub> Oxidation. <i>Journal of Structural Chemistry</i> , 2019, 60, 919-931.	0.3	14
125	Observation of surface acoustic phonon resonances: applications to the CO+O <sub>2</sub> oscillatory reaction on Pt{100}. <i>Chemical Physics Letters</i> , 1992, 191, 379-384.	1.2	13
126	Low temperature synthesis of Ru-Cu alloy nanoparticles with the compositions in the miscibility gap. <i>Journal of Solid State Chemistry</i> , 2014, 212, 42-47.	1.4	13



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127	Catalytic and capacity properties of nanocomposites based on cobalt oxide and nitrogen-doped carbon nanofibers. <i>Chinese Journal of Catalysis</i> , 2014, 35, 960-969.	6.9	13
128	Highly Oxidized Gold Nanoparticles: In Situ Synthesis, Electronic Properties, and Reaction Probability Toward CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2523-2529.	1.5	13
129	Influence of the Copper(II) Oxide Dispersion on its Catalytic Properties in Carbon Monoxide Oxidation: A Comparative Study by Using Two Types of Catalytic Reactors. <i>ChemCatChem</i> , 2016, 8, 3546-3555.	1.8	13
130	Enhanced Thermal Stability of Pd/Ce-Sn-O Catalysts for CO Oxidation Prepared by Plasma-Arc Synthesis. <i>Topics in Catalysis</i> , 2017, 60, 898-913.	1.3	13
131	Comparison of growth mechanisms of undoped and nitrogen-doped carbon nanofibers on nickel-containing catalysts. <i>Chinese Journal of Catalysis</i> , 2016, 37, 169-176.	6.9	12
132	Oxygen states during thermal decomposition of Ag <sub>2</sub> O: XPS and UPS study. <i>Reaction Kinetics and Catalysis Letters</i> , 1998, 63, 291-296.	0.6	11
133	Role of phosphates in promotion of silver catalysts for partial oxidation: II. Formation of active sites in the structure of silver phosphate under the action of a reductive medium. <i>Kinetics and Catalysis</i> , 2005, 46, 151-156.	0.3	11
134	Copper-cerium oxide catalysts for the selective oxidation of carbon monoxide in hydrogen-containing mixtures: II. Physicochemical characterization of the catalysts. <i>Kinetics and Catalysis</i> , 2007, 48, 448-456.	0.3	11
135	Synthesis and physicochemical characterization of palladium-cerium oxide catalysts for the low-temperature oxidation of carbon monoxide. <i>Kinetics and Catalysis</i> , 2009, 50, 819-823.	0.3	11
136	Structural and electron transport properties of CaFe <sub>2</sub> O <sub>4</sub> synthesized in air and in helium atmosphere. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153073.	2.8	11
137	Carbon on the Pt(110) surface: a scanning tunneling microscopy study. <i>Surface Science</i> , 1997, 382, 187-192.	0.8	10
138	XPS study of carbon species at the surface of platinum single crystal planes. <i>Journal of Molecular Catalysis A</i> , 2000, 158, 297-300.	4.8	10
139	Effect of the microstructure of Pt/CeO <sub>2</sub> -TiO <sub>2</sub> catalysts on their catalytic properties in CO oxidation. <i>Kinetics and Catalysis</i> , 2008, 49, 271-278.	0.3	10
140	Low-temperature oxidation of carbon monoxide over (Mn <sup>1-x</sup> M <sup>x</sup> )O <sub>2</sub> (M = Co, Pd) catalysts. <i>Kinetics and Catalysis</i> , 2013, 54, 81-94.	0.3	10
141	Inverse temperature hysteresis and self-sustained oscillations in CO oxidation over Pd at elevated pressures of reaction mixture: Experiment and mathematical modeling. <i>Chemical Engineering Science</i> , 2020, 212, 115312.	1.9	10
142	An XPS investigation of CO titration of oxygen from an Ir(111) surface. <i>Applications of Surface Science</i> , 1979, 3, 145-160.	1.0	9
143	La <sub>0.8</sub> Sr <sub>0.2</sub> Ni <sub>0.4</sub> Fe <sub>0.6</sub> O <sub>3</sub> -Ce <sub>0.8</sub> Gd <sub>0.2</sub> O <sub>2</sub> Nanocomposite as Mixed Ionic-Electronic Conducting Material for SOFC Cathode and Oxygen Permeable Membranes: Synthesis and Properties. <i>Composite Interfaces</i> , 2009, 16, 407-431.	1.3	9
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