## Andrey Saraev

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Platinum deposition onto g-C3N4 with using of labile nitratocomplex for generation of the highly active hydrogen evolution photocatalysts. International Journal of Hydrogen Energy, 2022, 47, 11326-11340.	7.1	14
2	Mechanistic study of methanol oxidation on Pt(1 1 1) single crystal. Applied Surface Science, 2022, 579, 152140.	6.1	8
3	Promoting effect of Zn in high-loading Zn/Ni-SiO <sub>2</sub> catalysts for selective hydrogen evolution from methylcyclohexane. Dalton Transactions, 2022, 51, 6068-6085.	3.3	10
4	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, , .	7.1	0
5	Low Temperature Multilayer Adsorption of Methanol and Ethanol on Platinum. Applied Spectroscopy, 2022, , 000370282210856.	2.2	2
6	Broadening the Action Spectrum of TiO2-Based Photocatalysts to Visible Region by Substituting Platinum with Copper. Nanomaterials, 2022, 12, 1584.	4.1	8
7	Highly efficient hydrogen production under visible light over g-C3N4-based photocatalysts with low platinum content. Chemical Engineering Journal, 2022, 445, 136721.	12.7	30
8	A Study of the Photocatalytic and Photovoltaic Properties of Photocatalysts Based on Carbon Nitride, Cobalt Phosphide, and Cobalt Phosphate. Kinetics and Catalysis, 2022, 63, 248-260.	1.0	2
9	Influence of Thermal Activation of Titania on Photoreactivity of Pt/TiO2 in Hydrogen Production. Catalysis Letters, 2021, 151, 748-754.	2.6	10
10	Spinel-type MnxCr3-xO4-based catalysts for ethanol steam reforming. Applied Catalysis B: Environmental, 2021, 283, 119656.	20.2	16
11	Multilayer adsorption of methanol on platinum at low temperatures. Applied Surface Science, 2021, 535, 147717.	6.1	4
12	Comparative study of photoreforming of glycerol on Pt/TiO2 and CuOx/TiO2 photocatalysts under UV light. Materials Letters, 2021, 283, 128901.	2.6	27
13	CO oxidation over titania-supported gold catalysts obtained using polyoxometalate. Reaction Kinetics, Mechanisms and Catalysis, 2021, 132, 171-185.	1.7	2
14	Self-sustained oscillations in oxidation of methane over palladium: the nature of "low-active―and "highly active―states. Catalysis Science and Technology, 2021, 11, 4392-4397.	4.1	8
15	In Situ X-Ray Absorption Spectroscopy Studies of Carbon Monoxide Oxidation in the Presence of Nanocomposite Cu–Fe–Al Oxide Catalysts. Kinetics and Catalysis, 2021, 62, 160-171.	1.0	1
16	The Formation of Mn-Ce Oxide Catalysts for CO Oxidation by Oxalate Route: The Role of Annealing Conditions. Catalysis Letters, 2021, 151, 2906-2918.	2.6	8
17	The Formation of Mn-Ce Oxide Catalysts for CO Oxidation by Oxalate Route: The Role of Manganese Content. Nanomaterials, 2021, 11, 988.	4.1	7
18	CHEMICAL STRUCTURE AND FUNCTIONAL PROPERTIES OF AMORPHOUS BORON CARBONITRIDE FILMS. Journal of Structural Chemistry, 2021, 62, 1309-1324.	1.0	2

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19	Ni–Cu High-Loaded Sol–Gel Catalysts for Dehydrogenation of Liquid Organic Hydrides: Insights into Structural Features and Relationship with Catalytic Activity. Nanomaterials, 2021, 11, 2017.	4.1	10
20	Investigation of the Structure and Interface Features of Ni/Ce <sub>1–<i>x</i></sub> Zr <sub><i>x</i></sub> O <sub>2</sub> Catalysts for CO and CO <sub>2</sub> Methanation. Journal of Physical Chemistry C, 2021, 125, 20538-20550.	3.1	20
21	<i>In Situ</i> Study of Reduction of Mn <i><sub>x</sub></i> Co <sub>3–<i>x</i></sub> O <sub>4</sub> Mixed Oxides: The Role of Manganese Content. Inorganic Chemistry, 2021, 60, 16518-16528.	4.0	7
22	Atomic Structure of Pd-, Pt-, and PdPt-Based Catalysts of Total Oxidation of Methane: In Situ EXAFS Study. Catalysts, 2021, 11, 1446.	3.5	4
23	CuFeAl-composite catalysts of oxidation of gasification products of solid fuels: In situ XAS and XRD study. Radiation Physics and Chemistry, 2020, 175, 108071.	2.8	6
24	3D, covalent and noncovalent hybrid materials based on 3-phenylcoumarin derivatives and single walled carbon nanotubes as gas sensing layers. Applied Surface Science, 2020, 504, 144276.	6.1	15
25	Hydroprocessing of Maya vacuum residue using a NiMo catalyst supported on Cr-doped alumina. Fuel, 2020, 263, 116717.	6.4	13
26	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.	4.3	15
27	Effect of Temperature on the Hydrotreatment of Sewage Sludge-Derived Pyrolysis Oil and Behavior of Ni-Based Catalyst. Catalysts, 2020, 10, 1273.	3.5	9
28	Coupling Hydrogenation of Guaiacol with In Situ Hydrogen Production by Glycerol Aqueous Reforming over Ni/Al2O3 and Ni-X/Al2O3 (X = Cu, Mo, P) Catalysts. Nanomaterials, 2020, 10, 1420.	4.1	10
29	New titania-based photocatalysts for hydrogen production from aqueous-alcoholic solutions of methylene blue. RSC Advances, 2020, 10, 34137-34148.	3.6	9
30	Effect of Calcination Temperature on Activity of Fe2O3–Al2O3 Nanocomposite Catalysts in CO Oxidation. Catalysis Letters, 2020, 150, 3377-3385.	2.6	7
31	CuFeAl Nanocomposite Catalysts for Coal Combustion in Fluidized Bed. Nanomaterials, 2020, 10, 1002.	4.1	11
32	Kinetic and mechanistic study of CO oxidation over nanocomposite Cuâ^'Feâ^'Al oxide catalysts. ChemCatChem, 2020, 12, 4911-4921.	3.7	16
33	The Structure of Mixed Mn–Co Oxide Catalysts for CO Oxidation. Topics in Catalysis, 2020, 63, 75-85.	2.8	9
34	High Photocatalytic Activity Under Visible Light of Sandwich Structures Based on Anodic TiO2/CdS Nanoparticles/Sol–Gel TiO2. Topics in Catalysis, 2020, 63, 130-138.	2.8	17
35	Self-sustained Oscillations in Oxidation of Propane Over Nickel: Experimental Study and Mathematical Modelling. Topics in Catalysis, 2020, 63, 33-48.	2.8	1
36	Oscillatory Behavior in Oxidation of Propane Over Nickel Foil and Films. Topics in Catalysis, 2020, 63, 24-32.	2.8	5

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37	The crystal structure of solid solutions formed in the HfO2-Sc2O3 nanoscale system. Journal of Crystal Growth, 2019, 523, 125156.	1.5	2
38	A Mechanistic Study of Dehydrogenation of Propane over Vanadia–Titania Catalysts. Journal of Physical Chemistry C, 2019, 123, 19668-19680.	3.1	33
39	The surface study of the Pd-Ga/Sibunit catalysts for acetylene hydrogenation. AIP Conference Proceedings, 2019, , .	0.4	0
40	Studying the Effect of Promotion with Copper on the Activity of the Ni/Al2O3 Catalyst in the Process of Ester Hydrotreatment. Catalysis in Industry, 2019, 11, 198-207.	0.7	7
41	Optical properties and charge transport of textured Sc2O3 thin films obtained by atomic layer deposition. Applied Surface Science, 2019, 478, 690-698.	6.1	14
42	Hydrotreatment of Anisole and Furfural as Model Compounds of Bioâ€oil over Chromium Modified Nickelâ€Based Catalysts. ChemistrySelect, 2019, 4, 7317-7326.	1.5	4
43	NAP-XPS and in situ XRD study of the stability of Bi-modified MoVNbTeO catalysts for oxidative dehydrogenation of ethane. Applied Catalysis A: General, 2019, 579, 141-150.	4.3	21
44	Influence of calcination on photocatalytic properties of nonstoichiometric titanium dioxide nanotubes. Journal of Alloys and Compounds, 2019, 796, 293-299.	5.5	31
45	Nonclassical Adsorption of Methanol on Palladium: The Competition between Adsorption of Single Molecules and Clusters. Journal of Physical Chemistry C, 2019, 123, 7259-7265.	3.1	5
46	The Influence of Cu and Al Additives on Reduction of Iron(III) Oxide: <i>In Situ</i> XRD and XANES Study. Inorganic Chemistry, 2019, 58, 4842-4850.	4.0	20
47	Highly Active CuFeAl-containing Catalysts for Selective Hydrogenation of Furfural to Furfuryl Alcohol. Catalysts, 2019, 9, 816.	3.5	18
48	Phenanthrene catalytic cracking in supercritical water: effect of the reaction medium on NiMo/SiO2 catalysts. Catalysis Today, 2019, 329, 197-205.	4.4	19
49	In Situ Study of Self-sustained Oscillations in Propane Oxidation and Propane Steam Reforming with Oxygen Over Nickel. Catalysis Letters, 2019, 149, 313-321.	2.6	11
50	<i>In Situ</i> NAP-XPS and Mass Spectrometry Study of the Oxidation of Propylene over Palladium. Journal of Physical Chemistry C, 2018, 122, 4315-4323.	3.1	16
51	<i>In situ</i> formation of the active sites in Pd–Au bimetallic nanocatalysts for CO oxidation: NAP (near ambient pressure) XPS and MS study. Faraday Discussions, 2018, 208, 255-268.	3.2	45
52	Nonstoichiometric oxygen in Mn–Ga–O spinels: reduction features of the oxides and their catalytic activity. RSC Advances, 2018, 8, 11598-11607.	3.6	22
53	The Reasons for Nonlinear Phenomena in Oxidation of Methane over Nickel. Kinetics and Catalysis, 2018, 59, 810-819.	1.0	5
54	Studying the Effect of Magnesium on the Activity of a Deep Oxidation Catalyst for a Fluidized Bed in Methane and CO Oxidation Reactions. Catalysis in Industry, 2018, 10, 237-243.	0.7	4

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55	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.	1.0	5
56	Structure and Chemistry of Cu–Fe–Al Nanocomposite Catalysts for CO Oxidation. Catalysis Letters, 2018, 148, 3715-3722.	2.6	14
57	Nonstoichiometric titanium dioxide nanotubes with enhanced catalytical activity under visible light. Scientific Reports, 2018, 8, 9607.	3.3	50
58	Selective oxidation of ethanol over vanadia-based catalysts: The influence of support material and reaction mechanism. Catalysis Today, 2017, 279, 95-106.	4.4	43
59	The Nature of Defects Responsible for Transport in a Hafnia-Based Resistive Random Access Memory Element. , 2017, , 493-504.		1
60	Influence of reaction conditions and kinetic analysis of the selective hydrogenation of oleic acid toward fatty alcohols on Ru-Sn-B/Al2O3 in the flow reactor. Applied Catalysis B: Environmental, 2017, 209, 611-620.	20.2	27
61	δ-Alumina supported cobalt catalysts promoted by ruthenium for Fischer-Tropsch synthesis. Applied Catalysis A: General, 2017, 539, 48-58.	4.3	26
62	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.	1.0	11
63	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.	4.1	25
64	Nickel molybdenum carbides: Synthesis, characterization, and catalytic activity in hydrodeoxygenation of anisole and ethyl caprate. Journal of Catalysis, 2017, 354, 61-77.	6.2	70
65	Design of micro-shell Cu–Al porous ceramometals as catalysts for the water–gas shift reaction. RSC Advances, 2017, 7, 42443-42454.	3.6	11
66	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.	7.8	9
67	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.	2.5	8
68	Photocatalytic hydrogen production using Me/Cd0.3Zn0.7S (Me = Au, Pt, Pd) catalysts: Transformation of the metallic catalyst under the action of the reaction medium. Kinetics and Catalysis, 2017, 58, 431-440.	1.0	5
69	Evolution of the state of copper-based co-catalysts of the Cd0.3Zn0.7S photocatalyst at the photoproduction of hydrogen under action of visible light. International Journal of Hydrogen Energy, 2017, 42, 30067-30075.	7.1	8
70	The atomic and electronic structure of oxygen polyvacancies in anatase. Technical Physics Letters, 2016, 42, 601-604.	0.7	4
71	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.	1.9	23
72	Electronic Structure of Oxygen Deficient Noncentrosymmetric Orthorhombic Hf0.5Zr0.5O2. ECS Transactions, 2016, 75, 227-233.	0.5	2

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73	Thermal stability of Ag–Au, Cu–Au, and Ag–Cu bimetallic nanoparticles supported on highly oriented pyrolytic graphite. Kinetics and Catalysis, 2016, 57, 704-711.	1.0	4
74	Yakutites: Are they impact diamonds from the Popigai crater?. Lithos, 2016, 265, 278-291.	1.4	14
75	Synthesis of Pt/Zn(OH)2/Cd0.3Zn0.7S for the Photocatalytic Hydrogen Evolution from Aqueous Solutions of Organic and Inorganic Electron Donors Under Visible Light. Topics in Catalysis, 2016, 59, 1297-1304.	2.8	30
76	Furfural Hydrogenation to Furfuryl Alcohol over Bimetallic Ni–Cu Sol–Gel Catalyst: A Model Reaction for Conversion of Oxygenates in Pyrolysis Liquids. Topics in Catalysis, 2016, 59, 1413-1423.	2.8	46
77	Active component of supported vanadium catalysts in the selective oxidation of methanol. Kinetics and Catalysis, 2016, 57, 82-94.	1.0	23
78	Redox mechanism for selective oxidation of ethanol over monolayer V2O5/TiO2 catalysts. Journal of Catalysis, 2016, 338, 82-93.	6.2	70
79	Structure, chemistry and luminescence properties of dielectric La Hf1-O films. Materials Chemistry and Physics, 2016, 175, 200-205.	4.0	10
80	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.	4.3	48
81	Novel photocatalysts Pt/Cd 1â^'x Zn x S/ZnO/Zn(OH) 2 : Activation during hydrogen evolution from aqueous solutions of ethanol under visible light. Applied Catalysis B: Environmental, 2016, 183, 197-205.	20.2	48
82	Evolution of self-sustained kinetic oscillations in the catalytic oxidation of propane over a nickel foil. Journal of Catalysis, 2016, 334, 23-33.	6.2	58
83	Origin of temperature oscillations of nickel catalyst occurring in methane oxidation. Kinetics and Catalysis, 2015, 56, 598-604.	1.0	21
84	Effect of Titania Regular Macroporosity on the Photocatalytic Hydrogen Evolution on Cd <sub>1â^'<i>x</i></sub> Zn <sub><i>x</i></sub> S/TiO <sub>2</sub> Catalysts under Visible Light. ChemCatChem, 2015, 7, 4108-4117.	3.7	32
85	Oxidation of propylene over Pd(5 5 1): Temperature hysteresis induced by carbon deposition and oxygen adsorption. Catalysis Today, 2015, 244, 29-35.	4.4	33
86	Photoactivity of TiO2/CdS and SiO2/CdS hybrid nanostructured systems in the partial oxidation of ethanol under irradiation with visible light. Kinetics and Catalysis, 2015, 56, 515-522.	1.0	4
87	Reduction of mixed Mn–Zr oxides: in situ XPS and XRD studies. Dalton Transactions, 2015, 44, 15499-15507.	3.3	92
88	Photocatalytic hydrogen evolution from aqueous solutions of Na2S/Na2SO3 under visible light irradiation on CuS/Cd0.3Zn0.7S and Ni Cd0.3Zn0.7S1+. Chemical Engineering Journal, 2015, 262, 146-155.	12.7	64
89	Advanced passivation techniques for Si solar cells with high-κ dielectric materials. Applied Physics Letters, 2014, 105, .	3.3	14
90	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.	1.0	27

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91	Growth, chemical composition, and structure of thin La x Hf1 â^ x O y films on Si. Inorganic Materials, 2014, 50, 158-164.	0.8	3
92	The origin of 2.7 eV luminescence and 5.2 eV excitation band in hafnium oxide. Applied Physics Letters, 2014, 104, 071904.	3.3	40
93	Selective oxidation of methanol to form dimethoxymethane and methyl formate over a monolayer V2O5/TiO2 catalyst. Journal of Catalysis, 2014, 311, 59-70.	6.2	114
94	Anisole hydrodeoxygenation over Ni–Cu bimetallic catalysts: The effect of Ni/Cu ratio on selectivity. Applied Catalysis A: General, 2014, 470, 261-270.	4.3	147
95	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.	1.0	2
96	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.	7.1	32
97	Electronic Structure of Noncentrosymmetric α-GeO2 with Oxygen Vacancy: Ab Initio Calculations and Comparison with Experiment. Journal of Physical Chemistry C, 2014, 118, 3644-3650.	3.1	24
98	In situ XPS study of self-sustained oscillations in catalytic oxidation of propane over nickel. Surface Science, 2013, 609, 113-118.	1.9	82
99	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.	3.1	49
100	Electronic structure of oxygen vacancies in hafnium oxide. Microelectronic Engineering, 2013, 109, 21-23.	2.4	53
101	Ni-based sol–gel catalysts as promising systems for crude bio-oil upgrading: Guaiacol hydrodeoxygenation study. Applied Catalysis B: Environmental, 2012, 113-114, 296-307.	20.2	353
102	X-ray Photoelectron Spectroscopy Depth Profiling of La <sub>2</sub> O <sub>3</sub> /Si Thin Films Deposited by Reactive Magnetron Sputtering. ACS Applied Materials & Interfaces, 2011, 3, 4370-4373.	8.0	118
103	Effect of calcination temperature on the physicochemical and catalytic properties of FeSO4/SiO2 in hydrogen sulfide oxidation. Kinetics and Catalysis, 2011, 52, 896-906.	1.0	3
104	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