

Oleg Klimov

List of Publications by Year in descending order

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107
papers

1,372
citations

331259

21
h-index

433756

31
g-index

108
all docs

108
docs citations

108
times ranked

847
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-Mo catalysts for ultra-deep HDS of diesel fuels prepared via synthesis of bimetallic surface compounds. <i>Journal of Molecular Catalysis A</i> , 2010, 322, 80-89.	4.8	79
2	Activity and sulfidation behavior of the CoMo/Al ₂ O ₃ hydrotreating catalyst: The effect of drying conditions. <i>Catalysis Today</i> , 2010, 149, 19-27.	2.2	68
3	Hydrocracking of vacuum gas oil over NiMo/zeolite-Al ₂ O ₃ : Influence of zeolite properties. <i>Fuel</i> , 2019, 237, 178-190.	3.4	56
4	Hydrocracking of vacuum gas oil over NiMo/Y-Al ₂ O ₃ : Effect of mesoporosity introduced by zeolite Y recrystallization. <i>Catalysis Today</i> , 2018, 305, 117-125.	2.2	50
5	Influence of boron addition to alumina support by kneading on morphology and activity of HDS catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 23-32.	10.8	47
6	Influence of USY zeolite recrystallization on physicochemical properties and catalytic performance of NiMo/USY-Al ₂ O ₃ hydrocracking catalysts. <i>Catalysis Today</i> , 2019, 329, 108-115.	2.2	43
7	Supported on alumina Co-Mo hydrotreating catalysts: Dependence of catalytic and strength characteristics on the initial AlOOH particle morphology. <i>Catalysis Today</i> , 2014, 220-222, 66-77.	2.2	39
8	CoNiMo/Al ₂ O ₃ catalysts for deep hydrotreatment of vacuum gasoil. <i>Catalysis Today</i> , 2016, 271, 56-63.	2.2	39
9	CoMo/Al ₂ O ₃ hydrotreating catalysts of diesel fuel with improved hydrodenitrogenation activity. <i>Catalysis Today</i> , 2018, 307, 73-83.	2.2	36
10	Bimetallic Co-Mo complexes: A starting material for high active hydrodesulfurization catalysts. <i>Catalysis Today</i> , 2010, 150, 196-206.	2.2	33
11	Comparative study of MWCNT and alumina supported CoMo/Al ₂ O ₃ hydrotreating catalysts prepared with citric acid as chelating agent. <i>Catalysis Today</i> , 2020, 357, 221-230.	2.2	32
12	Composition of stacked bed for VGO hydrocracking with maximum diesel yield. <i>Catalysis Today</i> , 2014, 220-222, 124-132.	2.2	30
13	Novel eco-friendly method for preparation of mesoporous alumina from the product of rapid thermal treatment of gibbsite. <i>Superlattices and Microstructures</i> , 2018, 120, 148-160.	1.4	30
14	Catalysts based on amorphous aluminosilicates for selective hydrotreating of FCC gasoline to produce Euro-5 gasoline with minimum octane number loss. <i>Catalysis Today</i> , 2016, 271, 4-15.	2.2	28
15	Mo/Al ₂ O ₃ Catalysts Prepared via Metal Complex Precursors. <i>Journal of Catalysis</i> , 1993, 139, 134-141.	3.1	27
16	Hydroprocessing of hydrocracker bottom on Pd containing bifunctional catalysts. <i>Catalysis Today</i> , 2016, 271, 154-162.	2.2	26
17	Influence of the phosphorus addition ways on properties of CoMo-catalysts of hydrotreating. <i>Catalysis Today</i> , 2019, 329, 13-23.	2.2	25
18	CoMoB/Al ₂ O ₃ catalysts for hydrotreating of diesel fuel. The effect of the way of the boron addition to a support or an impregnating solution. <i>Catalysis Today</i> , 2018, 305, 192-202.	2.2	24

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19	Guard bed catalysts for silicon removal during hydrotreating of middle distillates. <i>Catalysis Today</i> , 2019, 329, 53-62.	2.2	24
20	The superior activity of the CoMo hydrotreating catalysts, prepared using citric acid: what's the reason?. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 109-116.	1.5	23
21	Amorphous silica-alumina perspective supports for selective hydrotreating of FCC gasoline: Influence of Mg. <i>Applied Catalysis B: Environmental</i> , 2018, 223, 22-35.	10.8	23
22	Silicon doping effect on the properties of the hydrotreating catalysts of FCC feedstock pretreatment. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119415.	10.8	22
23	The influence of B and P in the impregnating solution on the properties of NiMo/Al ₂ O ₃ catalysts for VGO hydrotreating. <i>Catalysis Today</i> , 2019, 329, 2-12.	2.2	21
24	Characterization with ⁹⁵ Mo, ¹⁷ O, ¹ H NMR and EPR of alkylperoxo, alkoxo, peroxo and diolo molybdenum (VI) complexes formed in the course of catalytic epoxidation of cyclohexene with organic hydroperoxides. <i>Journal of Molecular Catalysis</i> , 1993, 83, 329-346.	1.2	20
25	Mo/Al ₂ O ₃ Catalysts Prepared via Metal Complex Precursors. <i>Journal of Catalysis</i> , 1993, 139, 142-152.	3.1	20
26	Reactivation of CoMo/Al ₂ O ₃ Hydrotreating Catalysts by Citric Acid. <i>Catalysis Letters</i> , 2018, 148, 1525-1534.	1.4	20
27	Effect of alumina polymorph on the dehydrogenation activity of supported chromia/alumina catalysts. <i>Journal of Catalysis</i> , 2020, 391, 35-47.	3.1	20
28	Effect of thermal treatment on morphology and catalytic performance of NiW/Al ₂ O ₃ catalysts prepared using citric acid as chelating agent. <i>Catalysis Today</i> , 2018, 305, 162-170.	2.2	19
29	High-active hydrotreating catalysts for heavy petroleum feeds: Intentional synthesis of CoMo sulfide particles with optimal localization on the support surface. <i>Catalysis Today</i> , 2010, 150, 164-170.	2.2	18
30	Hydrocracking of vacuum gas oil in the presence of catalysts NiMo/Al ₂ O ₃ amorphous aluminosilicates and NiW/Al ₂ O ₃ amorphous aluminosilicates. <i>Russian Journal of Applied Chemistry</i> , 2015, 88, 1969-1975.	0.1	17
31	Boosting hydrodesulfurization activity of CoMo/Al ₂ O ₃ catalyst via selective graphitization of alumina surface. <i>Microporous and Mesoporous Materials</i> , 2021, 317, 111008.	2.2	15
32	The effect of Si/Al ratio of zeolite Y in NiW catalyst for second stage hydrocracking. <i>Catalysis Today</i> , 2021, 378, 65-74.	2.2	15
33	Optimal pretreatment conditions for CoMo hydrotreatment catalysts prepared using ethylenediamine as a chelating agent. <i>Catalysis Today</i> , 2014, 220-222, 327-336.	2.2	14
34	A new catalyst for the deep hydrotreatment of vacuum gas oil, a catalytic cracking feedstock. <i>Catalysis in Industry</i> , 2015, 7, 38-46.	0.3	13
35			

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37	Comparison of alumina supports and catalytic activity of CoMoP/γ-Al ₂ O ₃ hydrotreating catalysts obtained using flash calcination of gibbsite and precipitation method. <i>Catalysis Today</i> , 2020, 353, 88-98.	2.2	12
38	Influence of alumina precursor on silicon capacity of NiMo/γ-Al ₂ O ₃ guard bed catalysts for gas oil hydrotreating. <i>Catalysis Today</i> , 2020, 353, 53-62.	2.2	12
39	Influence of zeolite content in NiW/Y-ASA-Al ₂ O ₃ catalyst for second stage hydrocracking. <i>Catalysis Today</i> , 2021, 377, 50-58.	2.2	12
40	Catalysts for metathesis of olefins, prepared by anchoring of MoO ₂ (acac) ₂ to Al ₂ O ₃ . <i>Reaction Kinetics and Catalysis Letters</i> , 1991, 43, 19-23.	0.6	11
41	Optimizing the Properties of an Alumina Support of Hydrotreating Catalysts by Introducing Boron and Sulfur at the Stage of Obtaining Pseudoboehmite by Hydrothermal Treatment of the Product Produced by Flash Calcination of Gibbsite. <i>Catalysis in Industry</i> , 2019, 11, 301-312.	0.3	11
42	A new method for preparation of Mo/Al ₂ O ₃ catalysts for olefin metathesis. <i>Reaction Kinetics and Catalysis Letters</i> , 1990, 41, 121-125.	0.6	10
43	Influence of the heat treatment conditions on the activity of the CoMo/Al ₂ O ₃ catalyst for deep hydrodesulfurization of diesel fractions. <i>Kinetics and Catalysis</i> , 2008, 49, 812-820.	0.3	10
44	Effect of citric acid and triethylene glycol addition on the reactivation of CoMo/γ-Al ₂ O ₃ hydrotreating catalysts. <i>Catalysis Today</i> , 2019, 329, 35-43.	2.2	10
45	Influence of hydrotreatment depth on product composition of fluid catalytic cracking process for light olefins production. <i>Catalysis Today</i> , 2021, 378, 2-9.	2.2	10
46	Effect of Organic Additives on the Structure and Hydrotreating Activity of a CoMoS/Multiwalled Carbon Nanotube Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 20612-20623.	1.8	9
47	Peptization of alumina by ammonia to adjust catalytic properties of NiMo/B-Al ₂ O ₃ hydrotreating catalysts. <i>Catalysis Today</i> , 2021, 375, 377-392.	2.2	9
48	Effect of rare earths on acidity of high-silica ultrastable REY zeolites and catalytic performance of NiMo/REY+Al ₂ O ₃ catalysts in vacuum gas oil hydrocracking. <i>Microporous and Mesoporous Materials</i> , 2022, 329, 111547.	2.2	9
49	Modification of HDT catalysts of FCC feedstock by adding silica to the kneading paste of alumina support: Advantages and disadvantages. <i>Fuel</i> , 2022, 324, 124555.	3.4	9
50	Study of reduced Mo/Al ₂ O ₃ metathesis catalysts prepared via metal complexes. <i>Reaction Kinetics and Catalysis Letters</i> , 1995, 56, 143-150.	0.6	8
51	Complexes forming from ammonium paramolybdate, orthophosphoric acid, cobalt or nickel nitrate, and carbamide in solution and their use in the preparation of diesel fuel hydrodesulfurization catalysts. <i>Kinetics and Catalysis</i> , 2009, 50, 867-873.	0.3	8
52	Textural characteristics of sulphided hydrotreatment catalysts prepared using Co-Mo complex compounds. <i>Adsorption</i> , 2013, 19, 723-731.	1.4	8
53	Optimization of grading guard systems for trapping of particulates to prevent pressure drop buildup in gas oil hydrotreater. <i>Fuel</i> , 2021, 285, 119149.	3.4	8
54	Is it possible to reactivate hydrotreating catalyst poisoned by silicon?. <i>Catalysis Today</i> , 2021, 378, 43-56.	2.2	8

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55	XPS studies of γ -Al ₂ O ₃ -supported molybdenum complexes. Reaction Kinetics and Catalysis Letters, 1991, 43, 301-305.	0.6	7
56	Thiophene conversion in the BIMF process. Reaction Kinetics and Catalysis Letters, 2004, 83, 187-194.	0.6	7
57	Effect of boron on acid and catalytic properties of Pd-ZSM-23/Al ₂ O ₃ catalysts in the reaction of diesel fuel hydroisomerization. Russian Journal of Applied Chemistry, 2015, 88, 1827-1838.	0.1	7
58	Effect of the ZSM-23 Synthesis Method on the Properties of Pt/ZSM-23/Al ₂ O ₃ Catalysts in n-Decane Conversion. Petroleum Chemistry, 2020, 60, 212-218.	0.4	7
59	Peculiarities of propylene metathesis over catalysts prepared by anchoring of Mo(V) oxalate to γ -Al ₂ O ₃ . Reaction Kinetics and Catalysis Letters, 1990, 41, 135-139.	0.6	6
60	Catalysts for metathesis of olefins obtained through [Mo ₃ O ₄ (C ₂ O ₄) ₃ (H ₂ O) ₃] ²⁺ coordinated to γ -Al ₂ O ₃ . Reaction Kinetics and Catalysis Letters, 1990, 42, 95-100.	0.6	6
61	Deactivation and oxidative regeneration of last-generation catalysts for deep hydrofining of diesel fuel: Comparison of properties of fresh and deactivated IK-GO-1 catalysts. Russian Journal of Applied Chemistry, 2010, 83, 2144-2151.	0.1	6
62	Use of Re(C ₅ H ₇ O ₂) in preparation of catalysts for olefin metathesis. Catalysis Letters, 1993, 19, 189-195.	1.4	5
63	EXAFS study of Cu/C catalysts. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 448, 318-322.	0.7	5
64	EXAFS study of oxide precursors of the high active Co-Mo hydrotreating catalysts: Effect of drying conditions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 603, 119-121.	0.7	5
65	Bimetallic Co-Mo-complexes with optimal localization on the support surface: A way for highly active hydrodesulfurization catalysts preparation for different petroleum distillates. Studies in Surface Science and Catalysis, 2010, , 509-512.	1.5	5
66	Synthesis of NiW/Al ₂ O ₃ hydrotreating catalysts from ammonium paratungstate using chelating agents. Russian Journal of Applied Chemistry, 2015, 88, 1458-1463.	0.1	5
67	A new method for reactivating the supported deep hydrotreatment CoMo/Al ₂ O ₃ and NiMo/Al ₂ O ₃ catalysts after oxidative regeneration. Catalysis in Industry, 2015, 7, 214-220.	0.3	5
68	Influence of the conditions of hydrogenation treatment of black oil on the yield and properties of the products obtained. Russian Journal of Applied Chemistry, 2016, 89, 254-262.	0.1	5
69	Hydrocracking of Vacuum Gasoil on NiMoW/AAS-Al ₂ O ₃ Trimetallic Catalysts: Effect of the W : Mo Ratio. Catalysis in Industry, 2018, 10, 20-28.	0.3	5
70	Influence of the order of the catalysts in the stacked bed of VGO hydrotreating catalysts. Fuel, 2021, 306, 121672.	3.4	5
71	Synthesis and characterization of lanthanum-modified pseudoboehmite - The precursor of alumina supports and catalysts. Microporous and Mesoporous Materials, 2022, 335, 111800.	2.2	5
72	Catalyst for selective hydrotreating of catalytic cracking gasoline without preliminary fractionation. Catalysis in Industry, 2017, 9, 230-238.	0.3	4

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73	Reactivation of CoMo/Al ₂ O ₃ hydrotreating catalysts with chelating agents. Russian Journal of Applied Chemistry, 2017, 90, 1425-1432.	0.1	4
74	Hydroconversion of Oil Shale on Natural Mineral Matrices. Petroleum Chemistry, 2017, 57, 1169-1172.	0.4	4
75	Effect of Method of Boron Introduction into NiMo/Al ₂ O ₃ Protective-Layer Catalysts on the Removal of Silicon from Diesel Fractions. Russian Journal of Applied Chemistry, 2018, 91, 2022-2029.	0.1	4
76	The Effect of Transition Alumina (γ-Al ₂ O ₃) on the Activity and Stability of Chromia/Alumina Catalysts. Part I: Model Catalysts and Aging Conditions. Energy Technology, 2019, 7, 1800735.	1.8	4
77	Structure of surface species in Mo/Al ₂ O ₃ catalysts prepared through Mo(V) oxalate. Reaction Kinetics and Catalysis Letters, 1990, 41, 339-344.	0.6	3
78	The use of X-ray absorption spectroscopy for developing new-generation Co-Mo catalysts of hydrotreating of diesel fuel. Doklady Physical Chemistry, 2009, 424, 35-39.	0.2	3
79	Deactivation and oxidative regeneration of modern catalysts for deep hydropurification of diesel fuel: Oxidative regeneration of IK-GO-1 catalyst. Russian Journal of Applied Chemistry, 2011, 84, 95-102.	0.1	3
80	Synthesis and characterisation of Co-Mo complexes containing the [Co(C ₂ H ₈ N ₂) ₃] ²⁺ cation and [MoO ₇ L] ⁴⁻ anion, where L is an oxalic, tartaric, citric or nitrilotriacetic acid residue. Polyhedron, 2012, 47, 65-72.	1.0	3
81	Hydrocracking of Vacuum Gasoil on NiMo/AAS-Al ₂ O ₃ Catalysts Prepared from Citric Acid: Effect of the Catalyst Heat Treatment Temperature. Catalysis in Industry, 2018, 10, 29-40.	0.3	3
82	Development of Catalysts for Hydroprocesses in Oil Refining. Kataliz V Promyshlennosti, 2020, 20, 391-406.	0.2	3
83	Investigation of the regeneration of NiMoP/Al ₂ O ₃ hydrotreating catalysts. Applied Catalysis A: General, 2022, 630, 118447.	2.2	3
84	New bifunctional zeolite-based catalyst for high octane gasoline production from hydrocarbon feedstocks with high content of sulfur. Studies in Surface Science and Catalysis, 2005, , 1779-1786.	1.5	2
85	Influence of the texture and acid-base properties of the alumina-containing support on the formation of Co(Ni)-Mo catalysts for deep hydrodesulfurization of the diesel fraction. Kinetics and Catalysis, 2008, 49, 791-801.	0.3	2
86	Modern catalysts of deep hydrotreatment in the production of low-sulfur diesel fuels at Russian oil refineries according to Euro-3 and Euro-4 standards. Catalysis in Industry, 2010, 2, 101-107.	0.3	2
87	Effect of Composition and Texture Characteristics of NiMo/Al ₂ O ₃ Guard-Bed Catalysts on Silicon Removal from Diesel Fractions. Petroleum Chemistry, 2017, 57, 1165-1168.	0.4	2
88	The Effect of Transition Alumina (γ-Al ₂ O ₃) on the Activity and Stability of Chromia/Alumina Catalysts. Part II: Industrial-Like Catalysts and Real Plant Aging Conditions. Energy Technology, 2019, 7, 1800736.	1.8	2
89	Effect of Steam-Air Treatment of Alumina-Chromia Dehydrogenation Catalysts on Their Physicochemical and Catalytic Characteristics. Russian Journal of Applied Chemistry, 2021, 94, 1283-1291.	0.1	2
90	Vacuum gasoil hydrocracking over three-layered packages consisting of supported sulfide NiMo and NiW catalysts. Catalysis in Industry, 2014, 6, 320-328.	0.3	1

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91	Reactivation of an industrial batch of CoMo/Al ₂ O ₃ catalyst for the deep hydrotreatment of oil fractions. <i>Catalysis in Industry</i> , 2017, 9, 136-145.	0.3	1
92	Influence of Temperature on the Hydrogenation of Oil Shale from the Kashpir Deposit. <i>Solid Fuel Chemistry</i> , 2018, 52, 26-29.	0.2	1
93	Conversion of Oil Shale Hydroconversion Products in the Presence of Supported Nickel-Molybdenum Sulfide Catalysts. <i>Petroleum Chemistry</i> , 2020, 60, 744-750.	0.4	1
94	Development of Catalysts for Hydroprocesses in Oil Refining. <i>Catalysis in Industry</i> , 2021, 13, 187-202.	0.3	1
95	NiMo/USY-Alumina Catalysts with Different Zeolite Content for Vacuum Gas Oil Hydrocracking Over Stacked Beds. , 2018, , 319-328.		1
96	Characterization and Hydroisomerization Performance of Mg-Promoted, Pt/ZSM-23-Based Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	1.0	1
97	Effect of alumina surface chemistry on chromia dispersion and dehydrogenation activity of CrOx/Al ₂ O ₃ catalysts with high Cr content. <i>Molecular Catalysis</i> , 2022, 521, 112180.	1.0	1
98	Deactivation of hydrotreating catalysts (A review). <i>Kataliz V Promyshlennosti</i> , 2022, 22, 38-65.	0.2	1
99	Oxidative Addition of Hydrogen in Reduced Mo/Al ₂ O ₃ Catalysts. <i>Doklady Physical Chemistry</i> , 2003, 391, 174-177.	0.2	0
100	Oxidative addition of hydrogen in the reduced Mo/Al ₂ O ₃ catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 2003, 80, 97-103.	0.6	0
101	The BIMF process in a low-tonnage unit. <i>Chemistry and Technology of Fuels and Oils</i> , 2004, 40, 364-369.	0.2	0
102	Manufacture of Motor Fuels on IK-30-BIMT Catalyst. <i>Chemistry and Technology of Fuels and Oils</i> , 2005, 41, 357-361.	0.2	0
103	Screening of Granulated Catalysts for the Dehydrogenation of Light C4 Paraffins. <i>Catalysis in Industry</i> , 2018, 10, 110-114.	0.3	0
104	Hydrogenation of Bituminous Sand. <i>Solid Fuel Chemistry</i> , 2018, 52, 110-115.	0.2	0
105	Catalysts and Selective Hydrotreating Processes of Catalytic Cracking Gasoline. <i>Ecology and Industry of Russia</i> , 2016, 20, 40-46.	0.2	0
106	Catalysts and Selective Hydrotreating Processes of Catalytic Cracking Gasoline. <i>Ecology and Industry of Russia</i> , 2016, 20, 50-53.	0.2	0
107	Catalytic Oxidative Cleaning of Gases from Toxic Nitrogen-Containing Compounds. <i>Ecology and Industry of Russia</i> , 2017, 21, 12-16.	0.2	0