

Pavel Nikulshin

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92
papers

1,315
citations

21
h-index

33
g-index

96
ext. papers

1,529
ext. citations

4.3
avg, IF

4.72
L-index

#	Paper	IF	Citations
92	Effects of composition and morphology of active phase of CoMo/Al ₂ O ₃ catalysts prepared using Co ₂ Mo ₁₀ heteropolyacid and chelating agents on their catalytic properties in HDS and HYD reactions. <i>Journal of Catalysis</i> , 2014 , 312, 152-169	7.3	157
91	Relationship between active phase morphology and catalytic properties of the carbon/alumina-supported Co(Ni)Mo catalysts in HDS and HYD reactions. <i>Journal of Catalysis</i> , 2014 , 309, 386-396	7.3	124
90	Genesis of HDT catalysts prepared with the use of Co ₂ Mo ₁₀ HPA and cobalt citrate: Study of their gas and liquid phase sulfidation. <i>Applied Catalysis B: Environmental</i> , 2014 , 158-159, 161-174	21.8	54
89	Investigation of co-effect of 12-tungstophosphoric heteropolyacid, nickel citrate and carbon-coated alumina in preparation of NiW catalysts for HDS, HYD and HDN reactions. <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 374-384	21.8	46
88	Investigation into the effect of the intermediate carbon carrier on the catalytic activity of the HDS catalysts prepared using heteropolycompounds. <i>Catalysis Today</i> , 2010 , 149, 82-90	5.3	46
87	Investigation of co-promotion effect in NiCoMoS/Al ₂ O ₃ catalysts based on Co ₂ Mo ₁₀ -heteropolyacid and nickel citrate. <i>Catalysis Today</i> , 2016 , 271, 80-90	5.3	46
86	CoMo/Al ₂ O ₃ catalysts prepared on the basis of Co ₂ Mo ₁₀ -heteropolyacid and cobalt citrate: Effect of Co/Mo ratio. <i>Fuel</i> , 2012 , 100, 24-33	7.1	45
85	Comparable investigation of unsupported MoS ₂ hydrodesulfurization catalysts prepared by different techniques: Advantages of support leaching method. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 498-508	21.8	41
84	Comparison of citric acid and glycol effects on the state of active phase species and catalytic properties of CoPMo/Al ₂ O ₃ hydrotreating catalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 205, 93-103	21.8	37
83	The use of CoMoS catalysts supported on carbon-coated alumina for hydrodeoxygenation of guaiacol and oleic acid. <i>Catalysis Today</i> , 2016 , 271, 45-55	5.3	35
82	NiWS/Al ₂ O ₃ hydrotreating catalysts prepared with 12-tungstophosphoric heteropolyacid and nickel citrate: Effect of Ni/W ratio. <i>Applied Catalysis A: General</i> , 2015 , 505, 456-466	5.1	35
81	Effect of the second metal of Anderson type heteropolycompounds on hydrogenation and hydrodesulfurization properties of XMo ₆ (S)/Al ₂ O ₃ and Ni ₃ -XMo ₆ (S)/Al ₂ O ₃ catalysts. <i>Applied Catalysis A: General</i> , 2011 , 393, 146-152	5.1	34
80	Investigation of spillover effect in hydrotreating catalysts based on Co ₂ Mo ₁₀ heteropolyanion and cobalt sulphide species. <i>Applied Catalysis B: Environmental</i> , 2015 , 168-169, 396-407	21.8	30
79	On the dynamic model of promoted molybdenum sulfide catalysts. <i>Catalysis Today</i> , 2010 , 149, 224-231	5.3	30
78	Relation between composition and morphology of K(Co)MoS active phase species and their performances in hydrotreating of model FCC gasoline. <i>Catalysis Today</i> , 2016 , 271, 16-27	5.3	29
77	Potassium effect in K-Ni(Co)PW/Al ₂ O ₃ catalysts for selective hydrotreating of model FCC gasoline. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 237-246	21.8	27
76	Influence of the composition and morphology of nanosized transition metal sulfides prepared using the Anderson-type heteropoly compounds [X(OH) ₆ Mo ₆ O ₁₈] _n [X = Co, Ni, Mn, Zn] and [Co ₂ Mo ₁₀ O ₃₈ H ₄] ₆ ⁻ⁿ on their catalytic properties. <i>Kinetics and Catalysis</i> , 2012 , 53, 620-631	1.5	27

75	Selective hydrotreating of FCC gasoline over KCoMoP/Al ₂ O ₃ catalysts prepared with H ₃ PMo ₁₂ O ₄₀ : Effect of metal loading. <i>Fuel</i> , 2016 , 182, 632-639	7.1	25
74	Hydroprocessing catalysts based on transition metal sulfides prepared from Anderson and dimeric Co ₂ Mo ₁₀ -heteropolyanions. A review. <i>Comptes Rendus Chimie</i> , 2016 , 19, 1276-1285	2.7	25
73	MoW synergetic effect supported by HAADF for alumina based catalysts prepared from mixed Si ₄ Mo ₁₂ -n heteropolyacids. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 951-959	21.8	25
72	Beneficial role of carbon in Co(Ni)MoS catalysts supported on carbon-coated alumina for co-hydrotreating of sunflower oil with straight-run gas oil. <i>Catalysis Today</i> , 2017 , 292, 110-120	5.3	22
71	Experimental and computational study of syngas and ethanol conversion mechanisms over K-modified transition metal sulfide catalysts. <i>Journal of Catalysis</i> , 2016 , 344, 841-853	7.3	20
70	Modern concepts on catalysis of hydroprocessing and synthesis of alcohols from syngas by transition metal sulfides. <i>Russian Chemical Bulletin</i> , 2014 , 63, 332-345	1.7	18
69	Co-hydrotreating of straight-run diesel fraction and vegetable oil on Co(Ni)-PMo/Al ₂ O ₃ catalysts. <i>Petroleum Chemistry</i> , 2016 , 56, 56-61	1.1	17
68	Molecular approach to prepare mixed MoW alumina supported hydrotreatment catalysts using H ₄ Si ₄ Mo ₁₂ O ₄₀ heteropolyacids. <i>Catalysis Science and Technology</i> , 2018 , 8, 5557-5572	5.5	17
67	Enhancing the hydrodesulfurization of 4,6-dimethyldibenzothiophene through the use of mixed MoWS ₂ phase evidenced by HAADF. <i>Catalysis Today</i> , 2019 , 329, 24-34	5.3	14
66	Activity of Co(Ni)MoS/Al ₂ O ₃ catalysts, derived from cobalt(nickel) salts of H ₆ [Co ₂ Mo ₁₀ O ₃₈ H ₄], in hydrogenolysis of thiophene and hydrogen treatment of diesel fraction. <i>Petroleum Chemistry</i> , 2012 , 52, 41-48	1.1	13
65	CoMo Hydrotreating Catalysts Supported on Al ₂ O ₃ , SiO ₂ and SBA-15 Prepared from Single Co ₂ Mo ₁₀ -Heteropolyacid: In Search of Self-Promotion Effect. <i>Catalysis Letters</i> , 2018 , 148, 2869-2879	2.8	12
64	Comparable investigation of spillover and cobalt promoter effects in CoMoS/Co _x /SiO ₂ catalysts for selective hydrotreating of model FCC gasoline. <i>Fuel Processing Technology</i> , 2017 , 156, 98-106	7.2	12
63	A review of furfural derivatives as promising octane boosters. <i>Russian Journal of Applied Chemistry</i> , 2017 , 90, 1402-1411	0.8	12
62	Hydrogen spillover effect in the presence of CoS _x /Al ₂ O ₃ and bulk MoS ₂ in hydrodesulfurization, hydrodenitrogenation and hydrodeoxygenation. <i>Russian Journal of Applied Chemistry</i> , 2013 , 86, 718-726	0.8	11
61	Influence of the nature of molybdenum compounds on the activity of Mo/Al ₂ O ₃ and NiMo/Al ₂ O ₃ hydrotreating catalysts. <i>Kinetics and Catalysis</i> , 2008 , 49, 653-662	1.5	11
60	Selective hydrodesulfurization of model fluid catalytic cracking gasoline over sulfided Al ₂ O ₃ -supported Anderson heteropolyoxomolybdate-based catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016 , 119, 615-627	1.6	11
59	Computational and experimental study of the second metal effect on the structure and properties of bi-metallic MeMoS-sites in transition metal sulfide catalysts. <i>Catalysis Today</i> , 2018 , 305, 19-27	5.3	11
58	CoMo/Al ₂ O ₃ hydrotreating catalysts prepared from single Co ₂ Mo ₁₀ -heteropolyacid at extremely high metal loading. <i>Catalysis Communications</i> , 2019 , 127, 51-57	3.2	10

57	Assessment of the chemical stability of furfural derivatives and the mixtures as fuel components. <i>Fuel</i> , 2020 , 271, 117594	7.1	10
56	Active phase transformation in industrial CoMo/Al ₂ O ₃ hydrotreating catalyst during its deactivation and rejuvenation with organic chemicals treatment. <i>Fuel Processing Technology</i> , 2018 , 173, 56-65	7.2	10
55	Hydrotreating of Middle-Distillate Fraction on Sulfide Catalysts Containing Crystalline Porous Aluminosilicates. <i>Petroleum Chemistry</i> , 2017 , 57, 1151-1155	1.1	9
54	Effect of the composition and acidity of supported sulfide catalysts on their activity and deactivation in guaiacol hydrodeoxygenation. <i>Catalysis in Industry</i> , 2014 , 6, 338-347	0.8	9
53	Influence of mesostructured alumina on the morphology of the active phase in NiWS/Al ₂ O ₃ catalysts and their activity in hydrotreating of SRGO and VGO. <i>Fuel Processing Technology</i> , 2018 , 181, 44-52	7.2	9
52	Catalysts based on molybdenum and tungsten heteropoly compounds for the hydrotreatment of oil fractions. <i>Catalysis in Industry</i> , 2015 , 7, 30-37	0.8	8
51	Thiophene hydrodesulfurization and diesel fuel hydrorefining activities of XMo ₆ (S)/EAl ₂ O ₃ and Ni-XMo ₆ (S)/EAl ₂ O ₃ (X = Al, Ga, In, Fe, Co, and Ni) catalysts. <i>Kinetics and Catalysis</i> , 2009 , 50, 220-227	1.5	8
50	Toward HYD/DEC selectivity control in hydrodeoxygenation over supported and unsupported Co(Ni)-MoS ₂ catalysts. A key to effective dual-bed catalyst reactor for co-hydroprocessing of diesel and vegetable oil. <i>Catalysis Today</i> , 2020 , 357, 556-564	5.3	8
49	Trimetallic Hydrotreating Catalysts CoMoW/Al ₂ O ₃ and NiMoW/Al ₂ O ₃ Prepared on the Basis of Mixed Mo-W Heteropolyacid: Difference in Synergistic Effects. <i>Petroleum Chemistry</i> , 2018 , 58, 1198-1205	1.1	7
48	Supercritical fluid CO ₂ -extraction regeneration of nickel/molybdenum catalyst for hydrotreatment. <i>Catalysis in Industry</i> , 2017 , 9, 31-38	0.8	6
47	The effect of carrier in KCoMoS-supported catalysts for hydro-upgrading of model FCC gasoline. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118041	21.8	6
46	Furfural Derivatives as Fuel Components. <i>Chemistry and Technology of Fuels and Oils</i> , 2020 , 55, 720-725	0.4	6
45	Trimetallic NiMoW/Al ₂ O ₃ hydrotreating catalyst based on H ₄ SiMo ₃ W ₉ O ₄₀ mixed heteropoly acid. <i>Russian Journal of Applied Chemistry</i> , 2017 , 90, 1122-1129	0.8	6
44	Selective hydrotreating of cat-cracked gasoline over a KCoMoS/Al ₂ O ₃ catalyst. <i>Kinetics and Catalysis</i> , 2015 , 56, 747-757	1.5	6
43	Use of (NH ₄) ₄ [Ni(OH) ₆ Mo ₆ O ₁₈]·nH ₂ O heteropoly compound in fabrication of sulfide catalysts for hydropurification of diesel fractions. <i>Russian Journal of Applied Chemistry</i> , 2009 , 82, 86-93	0.8	5
42	Influence of the Pore Structure of a Catalyst for Demetallization of Petroleum Feedstock on the Process Results. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 1392-1398	0.8	5
41	Furfural Dipropyl Acetal as a New Fuel Additive: Synthesis and Properties. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 1968-1973	0.8	5
40	Hydrogen treatment of vacuum gas oil on sulfide catalysts: Influence of composition and porous structure. <i>Petroleum Chemistry</i> , 2014 , 54, 431-437	1.1	4

39	Promoter nature effect on the sensitivity of NiMo/Al ₂ O ₃ , CoMo/Al ₂ O ₃ , and NiCoMo/Al ₂ O ₃ catalysts to dodecanoic acid in the co-hydrotreating of dibenzothiophene and naphthalene. <i>Kinetics and Catalysis</i> , 2017 , 58, 463-470	1.5	4
38	Inhibiting HDS and HYD reactions with quinoline on Co(Ni)WMo(W)/Al ₂ O ₃ catalysts: Effect of active phase composition on stability in the hydrotreatment of a model petroleum raw material. <i>Catalysis in Industry</i> , 2017 , 9, 146-155	0.8	4
37	Mono- and Bimetallic Mo(W)S ₂ /Al ₂ O ₃ and Mo(W)S ₂ /SBA-15 Hydrotreating Catalysts Based on SiMo ₁₂ and SiW ₁₂ Heteropoly Acids. <i>Petroleum Chemistry</i> , 2017 , 57, 1058-1064	1.1	4
36	Application of Heteropolyacid H ₄ SiMo ₃ W ₉ O ₄₀ for the Preparation of Bimetallic MoWS ₂ /Al ₂ O ₃ Hydrotreatment Catalysts. <i>Kinetics and Catalysis</i> , 2017 , 58, 825-832	1.5	4
35	Genesis of active phase in MoW/Al ₂ O ₃ hydrotreating catalysts monitored by HAADF and in situ QEXAFS combined to MCR-ALS analysis. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118766	21.8	4
34	Effect of Quinoline on Hydrodesulfurization and Hydrogenation on Bi- and Trimetallic NiMo(W)/Al ₂ O ₃ Hydrotreating Catalysts. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 105-112	0.8	3
33	Effect of carrier properties on the activity of supported KCoMoS catalysts in the synthesis of alcohol from syngas. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 127, 301-314	1.6	3
32	Hydrodeoxygenation of Oleic Acid on Supported and Unsupported MoS ₂ and NiMoS ₂ Catalysts for the Production of Green Diesel Fuel. <i>Chemistry and Technology of Fuels and Oils</i> , 2019 , 54, 686-697	0.4	3
31	Production of Low -Sulfur Marine Fuel. <i>Chemistry and Technology of Fuels and Oils</i> , 2020 , 55, 704-711	0.4	3
30	Ni-Based Nanoparticles on Mesoporous Silica Supports for Single-Stage Arsenic and Chlorine Removal during Diesel Fraction Hydrotreating. <i>ACS Omega</i> , 2020 , 5, 6611-6618	3.9	3
29	Effect of Support of W Catalysts on Hydrodeoxygenation of Guaiacol as a Model Compound of Biopetroleum. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 270-279	0.8	3
28	Hydrodeoxygenation of glycerol into propanols over a Ni/WO ₃ /TiO ₂ catalyst. <i>Mendeleev Communications</i> , 2020 , 30, 119-120	1.9	2
27	Hydrotreating of Vacuum Gas Oil on NiW/Al ₂ O ₃ Catalysts Prepared with the Use of Chelating Agents. <i>Petroleum Chemistry</i> , 2017 , 57, 1161-1164	1.1	2
26	The effect of the Mo/W ratio on the catalytic properties of alumina supported hydrotreating catalysts prepared from mixed SiMo ₆ W ₆ and SiMo ₉ W ₃ heteropolyacids. <i>Catalysis Today</i> , 2021 , 377, 100-113	5.3	2
25	Evaluation of the Hydrodesulfurization Activity in Development of Catalysts for Demetallization of Heavy Petroleum Feedstock. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 2046-2051	0.8	2
24	NiWS/Al ₂ O ₃ Diesel Fraction Deep Hydrotreating Catalyst Synthesized Using Mesoporous Aluminum Hydroxide. <i>Petroleum Chemistry</i> , 2018 , 58, 1186-1191	1.1	2
23	Hydrotreating of Straight-Run Diesel Fraction over Mixed NiMoWS/Al ₂ O ₃ Sulfide Catalysts. <i>Petroleum Chemistry</i> , 2019 , 59, 529-534	1.1	1
22	Effect of the Texture and Acidity of a Zeolite-Containing Support on the Activity and Selectivity of NiMoS Catalysts in Hydrogenation and Hydrocracking Reactions. <i>Petroleum Chemistry</i> , 2019 , 59, 511-517	1.1	1

21	Furfuralacetal Compositions as Complex Additives to Diesel Fuels. <i>Chemistry and Technology of Fuels and Oils</i> , 2020 , 55, 726-732	0.4	1
20	Prospects for the Use of Furfural Derivatives in Gasoline. <i>Chemistry and Technology of Fuels and Oils</i> , 2018 , 53, 830-834	0.4	1
19	Recovery of the diesel fraction of oil sludge by engaging in the deep hydrotreating process for manufacturing ultraclean diesel fuels. <i>Petroleum Chemistry</i> , 2013 , 53, 164-170	1.1	1
18	Regeneration of CoMo Sulfide Exhaustive Hydrofining Catalysts Using Organic Reagents. <i>Chemistry and Technology of Fuels and Oils</i> , 2017 , 53, 654-665	0.4	1
17	Recent Advances in Biodegradable Lubricating Materials (A Review). <i>Petroleum Chemistry</i> , 2021 , 61, 697-710	1.1	1
16	Influence of Oxygen-Containing Compounds on Conversion and Selectivity of Dibenzothiophene and Naphthalene on Bulk and Supported Co(Ni)MoS ₂ Catalysts. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 1761-1771	0.8	1
15	Highly Active Bulk Mo(W)S ₂ Hydrotreating Catalysts Synthesized by Etching out of the Carrier from Supported Mono- and Bimetallic Sulfides. <i>Petroleum Chemistry</i> , 2019 , 59, S53-S59	1.1	1
14	Activity of Mo(W)S ₂ /SBA-15 Catalysts Synthesized from SiMoW Heteropoly Acids in 4,6-Dimethyldibenzothiophene Hydrodesulfurization. <i>Petroleum Chemistry</i> , 2019 , 59, 1293-1299	1.1	1
13	Production of Low-Sulfur High-Viscosity Marine Fuel by Hydrotreatment of Oil Residues. <i>Chemistry and Technology of Fuels and Oils</i> , 2019 , 54, 669-675	0.4	0
12	($\text{NiMo}/\text{WO}_4^{2-}/\text{ZrO}_2$)-Zeolite-Containing Hydrodearomatization Catalyst for Improving the Operating and Environmental Characteristics of Diesel Fuel. <i>Chemistry and Technology of Fuels and Oils</i> , 2019 , 55, 389-394	0.4	0
11	Use of Modifying Additives in Solvent Dewaxing. <i>Chemistry and Technology of Fuels and Oils</i> , 2020 , 56, 535-549	0.4	0
10	Inhibiting Effect of Quinoline on the Hydroconversion of Dibenzothiophene and Naphthalene on Trimetallic NiCoMoS Catalysts Supported on Al ₂ O ₃ , SiO ₂ , and SBA-15. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 1789-1796	0.8	0
9	Bulk hydrotreating MonW _{12-n} S ₂ catalysts based on SiMonW _{12-n} heteropolyacids prepared by alumina elimination method. <i>Catalysis Today</i> , 2021 , 377, 26-37	5.3	0
8	Effect of Carbonization on CoMoS Catalyst supports in the Hydrodeoxygenation of Guaiacol as a Model Bio-Oil Compound. <i>Chemistry and Technology of Fuels and Oils</i> , 2019 , 54, 698-711	0.4	
7	New Bimetallic Hydrotreating Catalyst MoWS ₂ Based on Heteropoly Acid SiMo ₃ W ₉ and Mesostructured Silicate COK-12. <i>Petroleum Chemistry</i> , 2020 , 60, 616-621	1.1	
6	Pyrolysis of Vegetal Feedstock [Feasibility of Producing Motor Fuel Components. <i>Chemistry and Technology of Fuels and Oils</i> , 2018 , 53, 817-822	0.4	
5	Crystal structure of pentafluoroacetanilide. <i>Journal of Structural Chemistry</i> , 2015 , 56, 1201-1204	0.9	
4	Computer-Aided Modeling and Additive Manufacturing of Promising Protective Layer Materials for Catalytic Reactors. <i>Petroleum Chemistry</i> , 1	1.1	

- 3 Development of Technologies and Prospects for the Introduction of Aviation Biofuels. *Biotekhnologiya*, **2020**, 36, 13-30 0.4
- 2 Hydrovisbreaking of Mazut Heavy Oil on Inert Packing with Cellular Structure. *Chemistry and Technology of Fuels and Oils*, **2020**, 56, 333-340 0.4
- 1 The Current State of Development of Greases. *Chemistry and Technology of Fuels and Oils*, **2021**, 57, 279 0.4