# Pavel Nikulshin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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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 | Recent Advances in Biodegradable Lubricating Materials (A Review). *Petroleum Chemistry*, **2021**, 61, 697-710 | 1.1 | 1 |
| 91 | The Current State of Development of Greases. *Chemistry and Technology of Fuels and Oils*, **2021**, 57, 279 | 0.4 | |
| 90 | Bulk hydrotreating MonW12-nS2 catalysts based on SiMonW12-n heteropolyacids prepared by alumina elimination method. *Catalysis Today*, **2021**, 377, 26-37 | 5.3 | 0 |
| 89 | The effect of the Mo/W ratio on the catalytic properties of alumina supported hydrotreating catalysts prepared from mixed SiMo6W6 and SiMo9W3 heteropolyacids. *Catalysis Today*, **2021**, 377, 100-113 | 5.3 | 2 |
| 88 | New Bimetallic Hydrotreating Catalyst MoWS2 Based on Heteropoly Acid SiMo3W9 and Mesostructured Silicate COK-12. *Petroleum Chemistry*, **2020**, 60, 616-621 | 1.1 | |
| 87 | Production of Low -Sulfur Marine Fuel. *Chemistry and Technology of Fuels and Oils*, **2020**, 55, 704-711 | 0.4 | 3 |
| 86 | Ni-Based Nanoparticles on Mesoporous Silica Supports for Single-Stage Arsenic and Chlorine Removal during Diesel Fraction Hydrotreating. *ACS Omega*, **2020**, 5, 6611-6618 | 3.9 | 3 |
| 85 | Hydrodeoxygenation of glycerol into propanols over a Ni/WO3TiO2 catalyst. *Mendeleev Communications*, **2020**, 30, 119-120 | 1.9 | 2 |
| 84 | Assessment of the chemical stability of furfural derivatives and the mixtures as fuel components. *Fuel*, **2020**, 271, 117594 | 7.1 | 10 |
| 83 | Furfural Derivatives as Fuel Components. *Chemistry and Technology of Fuels and Oils*, **2020**, 55, 720-725 | 0.4 | 6 |
| 82 | Furfuralacetal Compositions as Complex Additives to Diesel Fuels. *Chemistry and Technology of Fuels and Oils*, **2020**, 55, 726-732 | 0.4 | 1 |
| 81 | Development of Technologies and Prospects for the Introduction of Aviation Biofuels. *Biotekhnologiya*, **2020**, 36, 13-30 | 0.4 | |
| 80 | Genesis of active phase in MoW/Al2O3 hydrotreating catalysts monitored by HAADF and in situ QEXAFS combined to MCR-ALS analysis. *Applied Catalysis B: Environmental*, **2020**, 269, 118766 | 21.8 | 4 |
| 79 | Hydrovisbreaking of Mazut Heavy Oil on Inert Packing with Cellular Structure. *Chemistry and Technology of Fuels and Oils*, **2020**, 56, 333-340 | 0.4 | |
| 78 | Use of Modifying Additives in Solvent Dewaxing. *Chemistry and Technology of Fuels and Oils*, **2020**, 56, 535-549 | 0.4 | 0 |
| 77 | Toward HYD/DEC selectivity control in hydrodeoxygenation over supported and unsupported Co(Ni)-MoS2 catalysts. A key to effective dual-bed catalyst reactor for co-hydroprocessing of diesel and vegetable oil. *Catalysis Today*, **2020**, 357, 556-564 | 5.3 | 8 |
| 76 | The effect of carrier in KCoMoS-supported catalysts for hydro-upgrading of model FCC gasoline. *Applied Catalysis B: Environmental*, **2019**, 259, 118041 | 21.8 | 6 |

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| 75 | Hydrotreating of Straight-Run Diesel Fraction over Mixed NiMoWS/Al2O3 Sulfide Catalysts. *Petroleum Chemistry*, **2019**, 59, 529-534 | 1.1 | 1 |
| 74 | Effect of the Texture and Acidity of a Zeolite-Containing Support on the Activity and Selectivity of NiMoS Catalysts in Hydrogenation and Hydrocracking Reactions. *Petroleum Chemistry*, **2019**, 59, 511-517 | 1.1 | 1 |
| 73 | CoMo/Al2O3 hydrotreating catalysts prepared from single Co2Mo10-heteropolyacid at extremely high metal loading. *Catalysis Communications*, **2019**, 127, 51-57 | 3.2 | 10 |
| 72 | Effect of Carbonization on CoMoS Catalyst supports in the Hydrodeoxygenation of Guaiacol as a Model Bio-Oil Compound. *Chemistry and Technology of Fuels and Oils*, **2019**, 54, 698-711 | 0.4 | |
| 71 | Effect of Quinoline on Hydrodesulfurization and Hydrogenation on Bi- and Trimetallic NiMo(W)/Al2O3 Hydrotreating Catalysts. *Russian Journal of Applied Chemistry*, **2019**, 92, 105-112 | 0.8 | 3 |
| 70 | Effect of carrier properties on the activity of supported KCoMoS catalysts in the synthesis of alcohol from syngas. *Reaction Kinetics, Mechanisms and Catalysis*, **2019**, 127, 301-314 | 1.6 | 3 |
| 69 | Hydrodeoxygenation of Oleic Acid on Supported and Unsupported MoS2 and NiMoS2 Catalysts for the Production of Green Diesel Fuel. *Chemistry and Technology of Fuels and Oils*, **2019**, 54, 686-697 | 0.4 | 3 |
| 68 | Production of Low-Sulfur High-Viscosity Marine Fuel by Hydrotreatment of Oil Residues. *Chemistry and Technology of Fuels and Oils*, **2019**, 54, 669-675 | 0.4 | 0 |
| 67 | ( mathrm{NiMo}/{mathrm{WO}}_4^{2-}/{mathrm{ZrO}}_2 ),-Zeolite-Containing Hydrodearomatization Catalyst for Improving the Operating and Environmental Characteristics of Diesel Fuel. *Chemistry and Technology of Fuels and Oils*, **2019**, 55, 389-394 | 0.4 | 0 |
| 66 | Influence of Oxygen-Containing Compounds on Conversion and Selectivity of Dibenzotiophene and Naphthaline on Bulk and Supplied Co(Ni)MoS2 Catalysts. *Russian Journal of Applied Chemistry*, **2019**, 92, 1761-1771 | 0.8 | 1 |
| 65 | Inhibiting Effect of Quinoline on the Hydroconversion of Dibenzothiophene and Naphthalene on Trimetallic NiCoMoS Catalysts Supported on Al2O3, SiO2, and SBA-15. *Russian Journal of Applied Chemistry*, **2019**, 92, 1789-1796 | 0.8 | 0 |
| 64 | Highly Active Bulk Mo(W)S2 Hydrotreating Catalysts Synthesized by Etching out of the Carrier from Supported Mono- and Bimetallic Sulfides. *Petroleum Chemistry*, **2019**, 59, S53-S59 | 1.1 | 1 |
| 63 | Activity of Mo(W)S2/SBA-15 Catalysts Synthesized from SiMoW Heteropoly Acids in 4,6-Dimethyldibenzothiophene Hydrodesulfurization. *Petroleum Chemistry*, **2019**, 59, 1293-1299 | 1.1 | 1 |
| 62 | Influence of the Pore Structure of a Catalyst for Demetallization of Petroleum Feedstock on the Process Results. *Russian Journal of Applied Chemistry*, **2019**, 92, 1392-1398 | 0.8 | 5 |
| 61 | Enhancing the hydrodesulfurization of 4,6-dimethyldibenzothiophene through the use of mixed MoWS2 phase evidenced by HAADF. *Catalysis Today*, **2019**, 329, 24-34 | 5.3 | 14 |
| 60 | Active phase transformation in industrial CoMo/Al 2 O 3 hydrotreating catalyst during its deactivation and rejuvenation with organic chemicals treatment. *Fuel Processing Technology*, **2018**, 173, 56-65 | 7.2 | 10 |
| 59 | Comparable investigation of unsupported MoS2 hydrodesulfurization catalysts prepared by different techniques: Advantages of support leaching method. *Applied Catalysis B: Environmental*, **2018**, 238, 498-508 | 21.8 | 41 |
| 58 | Effect of Support of  Catalysts on Hydrodeoxygenation of Guaiacol as a Model Compound of Biopetroleum. *Russian Journal of Applied Chemistry*, **2018**, 91, 270-279 | 0.8 | 3 |

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| 57 | Prospects for the Use of Furfural Derivatives in Gasoline. *Chemistry and Technology of Fuels and Oils* , **2018**, 53, 830-834 | 0.4 | 1 |
| 56 | CoMo Hydrotreating Catalysts Supported on Al2O3, SiO2 and SBA-15 Prepared from Single Co2Mo10-Heteropolyacid: In Search of Self-Promotion Effect. *Catalysis Letters*, **2018**, 148, 2869-2879 | 2.8 | 12 |
| 55 | Pyrolysis of Vegetal Feedstock Feasibility of Producing Motor Fuel Components. *Chemistry and Technology of Fuels and Oils*, **2018**, 53, 817-822 | 0.4 | |
| 54 | MoW synergetic effect supported by HAADF for alumina based catalysts prepared from mixed SiMonW12-n heteropolyacids. *Applied Catalysis B: Environmental*, **2018**, 224, 951-959 | 21.8 | 25 |
| 53 | Computational and experimental study of the second metal effect on the structure and properties of bi-metallic MeMoS-sites in transition metal sulfide catalysts. *Catalysis Today*, **2018**, 305, 19-27 | 5.3 | 11 |
| 52 | Furfural Dipropyl Acetal as a New Fuel Additive: Synthesis and Properties. *Russian Journal of Applied Chemistry*, **2018**, 91, 1968-1973 | 0.8 | 5 |
| 51 | Evaluation of the Hydrodesulfurization Activity in Development of Catalysts for Demetallization of Heavy Petroleum Feedstock. *Russian Journal of Applied Chemistry*, **2018**, 91, 2046-2051 | 0.8 | 2 |
| 50 | Trimetallic Hydrotreating Catalysts CoMoW/Al2O3 and NiMoW/Al2O3 Prepared on the Basis of Mixed Mo-W Heteropolyacid: Difference in Synergistic Effects. *Petroleum Chemistry*, **2018**, 58, 1198-1205 | 1.1 | 7 |
| 49 | NiWS/Al2O3 Diesel Fraction Deep Hydrotreating Catalyst Synthesized Using Mesostructured Aluminum Hydroxide. *Petroleum Chemistry*, **2018**, 58, 1186-1191 | 1.1 | 2 |
| 48 | Influence of mesostructured alumina on the morphology of the active phase in NiWS/Al2O3 catalysts and their activity in hydrotreating of SRGO and VGO. *Fuel Processing Technology*, **2018**, 181, 44-52 | 7.2 | 9 |
| 47 | Molecular approach to prepare mixed MoW alumina supported hydrotreatment catalysts using H4SiMonW12O40 heteropolyacids. *Catalysis Science and Technology*, **2018**, 8, 5557-5572 | 5.5 | 17 |
| 46 | Supercritical fluid CO2-extraction regeneration of nickel molybdenum catalyst for hydrotreatment. *Catalysis in Industry*, **2017**, 9, 31-38 | 0.8 | 6 |
| 45 | Comparison of citric acid and glycol effects on the state of active phase species and catalytic properties of CoPMo/Al2O3 hydrotreating catalysts. *Applied Catalysis B: Environmental*, **2017**, 205, 93-103 | 21.8 | 37 |
| 44 | Promoter nature effect on the sensitivity of NiMo/Al2O3, CoMo/Al2O3, and NiCoMo/Al2O3 catalysts to dodecanoic acid in the co-hydrotreating of dibenzothiophene and naphthalene. *Kinetics and Catalysis*, **2017**, 58, 463-470 | 1.5 | 4 |
| 43 | Inhibiting HDS and HYD reactions with quinoline on Co(Ni)PMo(W)/Al2O3 catalysts: Effect of active phase composition on stability in the hydrotreatment of a model petroleum raw material. *Catalysis in Industry*, **2017**, 9, 146-155 | 0.8 | 4 |
| 42 | Comparable investigation of spillover and cobalt promoter effects in CoMoS/CoSx/SiO2 catalysts for selective hydrotreating of model FCC gasoline. *Fuel Processing Technology*, **2017**, 156, 98-106 | 7.2 | 12 |
| 41 | Potassium effect in K-Ni(Co)PW/Al2O3 catalysts for selective hydrotreating of model FCC gasoline. *Applied Catalysis B: Environmental*, **2017**, 203, 237-246 | 21.8 | 27 |
| 40 | 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. *Catalysis Today*, **2017**, 292, 110-120 | 5.3 | 22 |

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| 39 | Mono- and Bimetallic Mo(W)S2/Al2O3 and Mo(W)S2/SBA-15 Hydrotreating Catalysts Based on SiMo12 and SiW12 Heteropoly Acids. *Petroleum Chemistry*, **2017**, 57, 1058-1064 | 1.1 | 4 |
| 38 | Regeneration of CoMo Sulfide Exhaustive Hydrofining Catalysts Using Organic Reagents. *Chemistry and Technology of Fuels and Oils*, **2017**, 53, 654-665 | 0.4 | 1 |
| 37 | A review of furfural derivatives as promising octane boosters. *Russian Journal of Applied Chemistry*, **2017**, 90, 1402-1411 | 0.8 | 12 |
| 36 | Application of Heteropolyacid H4SiMo3W9O40 for the Preparation of Bimetallic MoWS2/Al2O3 Hydrotreatment Catalysts. *Kinetics and Catalysis*, **2017**, 58, 825-832 | 1.5 | 4 |
| 35 | Hydrotreating of Vacuum Gas Oil on NiW/Al2O3 Catalysts Prepared with the Use of Chelating Agents. *Petroleum Chemistry*, **2017**, 57, 1161-1164 | 1.1 | 2 |
| 34 | Hydrotreating of Middle-Distillate Fraction on Sulfide Catalysts Containing Crystalline Porous Aluminosilicates. *Petroleum Chemistry*, **2017**, 57, 1151-1155 | 1.1 | 9 |
| 33 | Trimetallic NiMoW/Al2O3 hydrotreating catalyst based on H4SiMo3W9O40 mixed heteropoly acid. *Russian Journal of Applied Chemistry*, **2017**, 90, 1122-1129 | 0.8 | 6 |
| 32 | The use of CoMoS catalysts supported on carbon-coated alumina for hydrodeoxygenation of guaiacol and oleic acid. *Catalysis Today*, **2016**, 271, 45-55 | 5.3 | 35 |
| 31 | Experimental and computational study of syngas and ethanol conversion mechanisms over K-modified transition metal sulfide catalysts. *Journal of Catalysis*, **2016**, 344, 841-853 | 7.3 | 20 |
| 30 | Selective hydrotreating of FCC gasoline over KCoMoP/Al2O3 catalysts prepared with H3PMo12O40: Effect of metal loading. *Fuel*, **2016**, 182, 632-639 | 7.1 | 25 |
| 29 | Hydroprocessing catalysts based on transition metal sulfides prepared from Anderson and dimeric Co2Mo10-heteropolyanions. A review. *Comptes Rendus Chimie*, **2016**, 19, 1276-1285 | 2.7 | 25 |
| 28 | Co-hydrotreating of straight-run diesel fraction and vegetable oil on Co(Ni)-PMo/Al2O3 catalysts. *Petroleum Chemistry*, **2016**, 56, 56-61 | 1.1 | 17 |
| 27 | Selective hydrodesulfurization of model fluid catalytic cracking gasoline over sulfided Al2O3-supported Anderson heteropolyoxomolybdate-based catalysts. *Reaction Kinetics, Mechanisms and Catalysis*, **2016**, 119, 615-627 | 1.6 | 11 |
| 26 | Investigation of co-promotion effect in NiCoMoS/Al2O3 catalysts based on Co2Mo10-heteropolyacid and nickel citrate. *Catalysis Today*, **2016**, 271, 80-90 | 5.3 | 46 |
| 25 | Relation between composition and morphology of K(Co)MoS active phase species and their performances in hydrotreating of model FCC gasoline. *Catalysis Today*, **2016**, 271, 16-27 | 5.3 | 29 |
| 24 | Catalysts based on molybdenum and tungsten heteropoly compounds for the hydrotreatment of oil fractions. *Catalysis in Industry*, **2015**, 7, 30-37 | 0.8 | 8 |
| 23 | 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. *Applied Catalysis B: Environmental*, **2015**, 176-177, 374-384 | 21.8 | 46 |
| 22 | NiWS/Al2O3 hydrotreating catalysts prepared with 12-tungstophosphoric heteropolyacid and nickel citrate: Effect of Ni/W ratio. *Applied Catalysis A: General*, **2015**, 505, 456-466 | 5.1 | 35 |

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| 21 | Crystal structure of pentafluoroacetanilide. *Journal of Structural Chemistry*, **2015**, 56, 1201-1204 | 0.9 | |
| 20 | Selective hydrotreating of cat-cracked gasoline over a K□CoMoS/Al2O3 catalyst. *Kinetics and Catalysis*, **2015**, 56, 747-757 | 1.5 | 6 |
| 19 | Investigation of spillover effect in hydrotreating catalysts based on Co2Mo10□heteropolyanion and cobalt sulphide species. *Applied Catalysis B: Environmental*, **2015**, 168-169, 396-407 | 21.8 | 30 |
| 18 | Relationship between active phase morphology and catalytic properties of the carbon□lumina-supported Co(Ni)Mo catalysts in HDS and HYD reactions. *Journal of Catalysis*, **2014**, 309, 386-396 | 7.3 | 124 |
| 17 | Effects of composition and morphology of active phase of CoMo/Al2O3 catalysts prepared using Co2Mo10□heteropolyacid and chelating agents on their catalytic properties in HDS and HYD reactions. *Journal of Catalysis*, **2014**, 312, 152-169 | 7.3 | 157 |
| 16 | Hydrogen treatment of vacuum gas oil on sulfide catalysts: Influence of composition and porous structure. *Petroleum Chemistry*, **2014**, 54, 431-437 | 1.1 | 4 |
| 15 | Effect of the composition and acidity of supported sulfide catalysts on their activity and deactivation in guaiacol hydrodeoxygenation. *Catalysis in Industry*, **2014**, 6, 338-347 | 0.8 | 9 |
| 14 | Modern concepts on catalysis of hydroprocessing and synthesis of alcohols from syngas by transition metal sulfides. *Russian Chemical Bulletin*, **2014**, 63, 332-345 | 1.7 | 18 |
| 13 | Genesis of HDT catalysts prepared with the use of Co2Mo10HPA and cobalt citrate: Study of their gas and liquid phase sulfidation. *Applied Catalysis B: Environmental*, **2014**, 158-159, 161-174 | 21.8 | 54 |
| 12 | Recovery of the diesel fraction of oil sludge by engaging in the deep hydrotreating process for manufacturing ultraclean diesel fuels. *Petroleum Chemistry*, **2013**, 53, 164-170 | 1.1 | 1 |
| 11 | Hydrogen spillover effect in the presence of CoS x /Al2O3 and bulk MoS2 in hydrodesulfurization, hydrodenitrogenation and hydrodeoxygenation. *Russian Journal of Applied Chemistry*, **2013**, 86, 718-726 | 0.8 | 11 |
| 10 | Activity of Co(Ni)MoS/Al2O3 catalysts, derived from cobalt(nickel) salts of H6[Co2Mo10O38H4], in hydrogenolysis of thiophene and hydrogen treatment of diesel fraction. *Petroleum Chemistry*, **2012**, 52, 41-48 | 1.1 | 13 |
| 9 | CoMo/Al2O3 catalysts prepared on the basis of Co2Mo10-heteropolyacid and cobalt citrate: Effect of Co/Mo ratio. *Fuel*, **2012**, 100, 24-33 | 7.1 | 45 |
| 8 | Influence of the composition and morphology of nanosized transition metal sulfides prepared using the Anderson-type heteropoly compounds [X(OH)6Mo6O18]n□(X = Co, Ni, Mn, Zn) and [Co2Mo10O38H4]6□on their catalytic properties. *Kinetics and Catalysis*, **2012**, 53, 620-631 | 1.5 | 27 |
| 7 | Effect of the second metal of Anderson type heteropolycompounds on hydrogenation and hydrodesulphurization properties of XMo6(S)/Al2O3 and Ni3-XMo6(S)/Al2O3 catalysts. *Applied Catalysis A: General*, **2011**, 393, 146-152 | 5.1 | 34 |
| 6 | On the dynamic model of promoted molybdenum sulfide catalysts. *Catalysis Today*, **2010**, 149, 224-231 | 5.3 | 30 |
| 5 | Investigation into the effect of the intermediate carbon carrier on the catalytic activity of the HDS catalysts prepared using heteropolycompounds. *Catalysis Today*, **2010**, 149, 82-90 | 5.3 | 46 |
| 4 | Thiophene hydrodesulfurization and diesel fuel hydrorefining activities of XMo6(S)/□Al2O3 and Ni-XMo6(S)/□Al2O3 (X = Al, Ga, In, Fe, Co, and Ni) catalysts. *Kinetics and Catalysis*, **2009**, 50, 220-227 | 1.5 | 8 |

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| 3 | Use of (NH4)4[Ni(OH)6Mo6O18]·nH2O heteropoly compound in fabrication of sulfide catalysts for hydropurification of diesel fractions. *Russian Journal of Applied Chemistry*, **2009**, 82, 86-93 | 0.8 | 5 |
| 2 | Influence of the nature of molybdenum compounds on the activity of Mo/γ-Al2O3 and NiMo/γ-Al2O3 hydrotreating catalysts. *Kinetics and Catalysis*, **2008**, 49, 653-662 | 1.5 | 11 |
| 1 | Computer-Aided Modeling and Additive Manufacturing of Promising Protective Layer Materials for Catalytic Reactors. *Petroleum Chemistry*,1 | 1.1 | |