# Pavel Nikulshin

List of Publications by Year
in descending order



| 94 | 1,685 | 304368 22 | 315357 38 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 96 | 96 | 96 | 1083 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effects of composition and morphology of active phase of CoMo/Al2O3 catalysts prepared using Co2Mo10â€“heteropolyacid and chelating agents on their catalytic properties in HDS and HYD reactions. Journal of Catalysis, 2014, 312, 152-169. | 3.1 | 188 |
| 2 | Relationship between active phase morphology and catalytic properties of the carbonâ€“alumina-supported Co(Ni)Mo catalysts in HDS and HYD reactions. Journal of Catalysis, 2014, 309, 386-396. | 3.1 | 150 |
| 3 | Comparable investigation of unsupported MoS2 hydrodesulfurization catalysts prepared by different techniques: Advantages of support leaching method. Applied Catalysis B: Environmental, 2018, 238, 498-508. | 10.8 | 65 |
| 4 | 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. | 10.8 | 60 |
| 5 | 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. | 10.8 | 58 |
| 6 | CoMo/Al2O3 catalysts prepared on the basis of Co2Mo10-heteropolyacid and cobalt citrate: Effect of Co/Mo ratio. Fuel, 2012, 100, 24-33. | 3.4 | 54 |
| 7 | Investigation of co-promotion effect in NiCoMoS/Al2O3 catalysts based on Co2Mo10-heteropolyacid and nickel citrate. Catalysis Today, 2016, 271, 80-90. | 2.2 | 54 |
| 8 | 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. | 10.8 | 53 |
| 9 | 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. | 2.2 | 51 |
| 10 | 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. | 2.2 | 43 |
| 11 | The use of CoMoS catalysts supported on carbon-coated alumina for hydrodeoxygenation of guaiacol and oleic acid. Catalysis Today, 2016, 271, 45-55. | 2.2 | 42 |
| 12 | 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. | 2.2 | 37 |
| 13 | Investigation of spillover effect in hydrotreating catalysts based on Co2Mo10â^' heteropolyanion and cobalt sulphide species. Applied Catalysis B: Environmental, 2015, 168-169, 396-407. | 10.8 | 37 |
| 14 | 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. | 2.2 | 36 |
| 15 | Potassium effect in K-Ni(Co)PW/Al2O3 catalysts for selective hydrotreating of model FCC gasoline. Applied Catalysis B: Environmental, 2017, 203, 237-246. | 10.8 | 34 |
| 16 | MoW synergetic effect supported by HAADF for alumina based catalysts prepared from mixed SiMonW12-n heteropolyacids. Applied Catalysis B: Environmental, 2018, 224, 951-959. | 10.8 | 33 |
| 17 | On the dynamic model of promoted molybdenum sulfide catalysts. Catalysis Today, 2010, 149, 224-231. | 2.2 | 32 |
| 18 | Selective hydrotreating of FCC gasoline over KCoMoP/Al2O3 catalysts prepared with H3PMo12O40: Effect of metal loading. Fuel, 2016, 182, 632-639. | 3.4 | 30 |

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|---|---|---|---|
| 19 | Influence of the composition and morphology of nanosized transition metal sulfides prepared using the Anderson-type heteropoly compounds [X(OH)6Mo6O18] nâ¯ (X = Co, Ni, Mn, Zn) and [Co2Mo10O38H4]6â¯ on their catalytic properties. Kinetics and Catalysis, 2012, 53, 620-631. | 0.3 | 29 |
| 20 | Hydroprocessing catalysts based on transition metal sulfides prepared from Anderson and dimeric Co2Mo10-heteropolyanions. A review. Comptes Rendus Chimie, 2016, 19, 1276-1285. | 0.2 | 27 |
| 21 | Experimental and computational study of syngas and ethanol conversion mechanisms over K-modified transition metal sulfide catalysts. Journal of Catalysis, 2016, 344, 841-853. | 3.1 | 26 |
| 22 | 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. | 2.2 | 25 |
| 23 | A review of furfural derivatives as promising octane boosters. Russian Journal of Applied Chemistry, 2017, 90, 1402-1411. | 0.1 | 20 |
| 24 | Molecular approach to prepare mixed MoW alumina supported hydrotreatment catalysts using H<sub>4</sub>SiMo<sub>n</sub>W<sub>12â¯n</sub>O<sub>40</sub>heteropolyacids. Catalysis Science and Technology, 2018, 8, 5557-5572. | 2.1 | 20 |
| 25 | Co-hydrotreating of straight-run diesel fraction and vegetable oil on Co(Ni)-PMo/Al2O3 catalysts. Petroleum Chemistry, 2016, 56, 56-61. | 0.4 | 19 |
| 26 | CoMo/Al2O3 hydrotreating catalysts prepared from single Co2Mo10-heteropolyacid at extremely high metal loading. Catalysis Communications, 2019, 127, 51-57. | 1.6 | 19 |
| 27 | Enhancing the hydrodesulfurization of 4,6-dimethyldibenzothiophene through the use of mixed MoWS2 phase evidenced by HAADF. Catalysis Today, 2019, 329, 24-34. | 2.2 | 19 |
| 28 | Modern concepts on catalysis of hydroprocessing and synthesis of alcohols from syngas by transition metal sulfides. Russian Chemical Bulletin, 2014, 63, 332-345. | 0.4 | 18 |
| 29 | 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. | 3.7 | 18 |
| 30 | 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. | 2.2 | 18 |
| 31 | Active phase transformation in industrial CoMo/Al2O3 hydrotreating catalyst during its deactivation and rejuvenation with organic chemicals treatment. Fuel Processing Technology, 2018, 173, 56-65. | 3.7 | 17 |
| 32 | 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. | 1.4 | 15 |
| 33 | Assessment of the chemical stability of furfural derivatives and the mixtures as fuel components. Fuel, 2020, 271, 117594. | 3.4 | 15 |
| 34 | 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. | 0.4 | 14 |
| 35 | 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. | 0.8 | 14 |
| 36 | The effect of carrier in KCoMoS-supported catalysts for hydro-upgrading of model FCC gasoline. Applied Catalysis B: Environmental, 2019, 259, 118041. | 10.8 | 13 |

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|---|---|---|---|
| 37 | 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. | 2.2 | 13 |
| 38 | 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. | 10.8 | 13 |
| 39 | Influence of the nature of molybdenum compounds on the activity of Mo/Î³-Al2O3 and NiMo/Î³-Al2O3 hydrotreating catalysts. Kinetics and Catalysis, 2008, 49, 653-662. | 0.3 | 12 |
| 40 | 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. | 0.1 | 12 |
| 41 | Catalysts based on molybdenum and tungsten heteropoly compounds for the hydrotreatment of oil fractions. Catalysis in Industry, 2015, 7, 30-37. | 0.3 | 12 |
| 42 | 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. | 0.4 | 12 |
| 43 | 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. | 2.2 | 12 |
| 44 | Hydrotreating of Middle-Distillate Fraction on Sulfide Catalysts Containing Crystalline Porous Aluminosilicates. Petroleum Chemistry, 2017, 57, 1151-1155. | 0.4 | 11 |
| 45 | 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. | 3.7 | 11 |
| 46 | 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. | 0.3 | 10 |
| 47 | Thiophene hydrodesulfurization and diesel fuel hydrorefining activities of XMo6(S)/Î³-Al2O3 and Ni-XMo6(S)/Î³-Al2O3 (X = Al, Ga, In, Fe, Co, and Ni) catalysts. Kinetics and Catalysis, 2009, 50, 220-227. | 0.3 | 9 |
| 48 | Furfural Derivatives as Fuel Components. Chemistry and Technology of Fuels and Oils, 2020, 55, 720-725. | 0.2 | 9 |
| 49 | Furfural Dipropyl Acetal as a New Fuel Additive: Synthesis and Properties. Russian Journal of Applied Chemistry, 2018, 91, 1968-1973. | 0.1 | 8 |
| 50 | 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. | 0.8 | 8 |
| 51 | Study of hydrotreating performance of trimetallic NiMoW/Al2O3 catalysts prepared from mixed MoW Keggin heteropolyanions with various Mo/W ratios. Journal of Catalysis, 2021, 403, 141-159. | 3.1 | 8 |
| 52 | Supercritical fluid CO2-extraction regeneration of nickelâ€“molybdenum catalyst for hydrotreatment. Catalysis in Industry, 2017, 9, 31-38. | 0.3 | 7 |
| 53 | Trimetallic NiMoW/Al2O3 hydrotreating catalyst based on H4SiMo3W9O40 mixed heteropoly acid. Russian Journal of Applied Chemistry, 2017, 90, 1122-1129. | 0.1 | 7 |
| 54 | Selective hydrotreating of cat-cracked gasoline over a Kâ€“CoMoS/Al2O3 catalyst. Kinetics and Catalysis, 2015, 56, 747-757. | 0.3 | 6 |

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|---|---|---|---|
| 55 | Promoter nature effect on the sensitivity of Niâ€“Mo/Al2O3, Coâ€“Mo/Al2O3, and Niâ€“Coâ€“Mo/Al2O3 catalysts to dodecanoic acid in the co-hydrotreating of dibenzothiophene and naphthalene. Kinetics and Catalysis, 2017, 58, 463-470. | 0.3 | 6 |
| 56 | Ni-Based Nanoparticles on Mesoporous Silica Supports for Single-Stage Arsenic and Chlorine Removal during Diesel Fraction Hydrotreating. ACS Omega, 2020, 5, 6611-6618. | 1.6 | 6 |
| 57 | Hydrodeoxygenation of glycerol into propanols over a Ni/WO3â€“TiO2 catalyst. Mendeleev Communications, 2020, 30, 119-120. | 0.6 | 6 |
| 58 | Synthesis of Higher Alcohols from Syngas over a K-Modified CoMoS Catalyst Supported on Novel Powder and Fiber Commercial Activated Carbons. ACS Omega, 2022, 7, 21346-21356. | 1.6 | 6 |
| 59 | Use of (NH4)4[Ni(OH)6Mo6O18]Â·nH2O heteropoly compound in fabrication of sulfide catalysts for hydropurification of diesel fractions. Russian Journal of Applied Chemistry, 2009, 82, 86-93. | 0.1 | 5 |
| 60 | 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. | 0.1 | 5 |
| 61 | 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. | 0.1 | 5 |
| 62 | Hydrogen treatment of vacuum gas oil on sulfide catalysts: Influence of composition and porous structure. Petroleum Chemistry, 2014, 54, 431-437. | 0.4 | 4 |
| 63 | Inhibiting HDS and HYD reactions with quinoline on Co(Ni)â€“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. | 0.3 | 4 |
| 64 | 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. | 0.4 | 4 |
| 65 | Application of Heteropolyacid H4SiMo3W9O40 for the Preparation of Bimetallic MoWS2/Al2O3 Hydrotreatment Catalysts. Kinetics and Catalysis, 2017, 58, 825-832. | 0.3 | 4 |
| 66 | 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. | 0.2 | 4 |
| 67 | Use of Modifying Additives in Solvent Dewaxing. Chemistry and Technology of Fuels and Oils, 2020, 56, 535-549. | 0.2 | 4 |
| 68 | Production of Low -Sulfur Marine Fuel. Chemistry and Technology of Fuels and Oils, 2020, 55, 704-711. | 0.2 | 4 |
| 69 | Bulk hydrotreating MonW12-nS2 catalysts based on SiMonW12-n heteropolyacids prepared by alumina elimination method. Catalysis Today, 2021, 377, 26-37. | 2.2 | 4 |
| 70 | Hydrotreating of Vacuum Gas Oil on NiW/Al2O3 Catalysts Prepared with the Use of Chelating Agents. Petroleum Chemistry, 2017, 57, 1161-1164. | 0.4 | 3 |
| 71 | Effect of Support of Đ¡Đ¾ĐœĐ¾S Catalysts on Hydrodeoxygenation of Guaiacol as a Model Compound of Biopetroleum. Russian Journal of Applied Chemistry, 2018, 91, 270-279. | 0.1 | 3 |
| 72 | Evaluation of the Hydrodesulfurization Activity in Development of Catalysts for Demetallization of Heavy Petroleum Feedstock. Russian Journal of Applied Chemistry, 2018, 91, 2046-2051. | 0.1 | 3 |

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|---|---|---|---|
| 73 | Recent Advances in Biodegradable Lubricating Materials (A Review). Petroleum Chemistry, 2021, 61, 697-710. | 0.4 | 3 |
| 74 | Prospects for the Use of Furfural Derivatives in Gasoline. Chemistry and Technology of Fuels and Oils, 2018, 53, 830-834. | 0.2 | 2 |
| 75 | NiWS/Al2O3 Diesel Fraction Deep Hydrotreating Catalyst Synthesized Using Mesostructured Aluminum Hydroxide. Petroleum Chemistry, 2018, 58, 1186-1191. | 0.4 | 2 |
| 76 | Production of Low-Sulfur High-Viscosity Marine Fuel by Hydrotreatment of Oil Residues. Chemistry and Technology of Fuels and Oils, 2019, 54, 669-675. | 0.2 | 2 |
| 77 | 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. | 0.4 | 1 |
| 78 | Regeneration of CoMo Sulfide Exhaustive Hydrofining Catalysts Using Organic Reagents. Chemistry and Technology of Fuels and Oils, 2017, 53, 654-665. | 0.2 | 1 |
| 79 | $$ mathrm{NiMo}/{mathrm{WO}}_4^{2-}/{mathrm{ZrO}}_2 $$,-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. | 0.2 | 1 |
| 80 | Hydrotreating of Straight-Run Diesel Fraction over Mixed NiMoWS/Al2O3 Sulfide Catalysts. Petroleum Chemistry, 2019, 59, 529-534. | 0.4 | 1 |
| 81 | 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. | 0.4 | 1 |
| 82 | 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. | 0.1 | 1 |
| 83 | 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. | 0.1 | 1 |
| 84 | 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. | 0.4 | 1 |
| 85 | Activity of Mo(W)S2/SBA-15 Catalysts Synthesized from SiMoW Heteropoly Acids in 4,6-Dimethyldibenzothiophene Hydrodesulfurization. Petroleum Chemistry, 2019, 59, 1293-1299. | 0.4 | 1 |
| 86 | Hydrovisbreaking of Mazut Heavy Oil on Inert Packing with Cellular Structure. Chemistry and Technology of Fuels and Oils, 2020, 56, 333-340. | 0.2 | 1 |
| 87 | Furfuralacetal Compositions as Complex Additives to Diesel Fuels. Chemistry and Technology of Fuels and Oils, 2020, 55, 726-732. | 0.2 | 1 |
| 88 | Computer-Aided Modeling and Additive Manufacturing of Promising Protective Layer Materials for Catalytic Reactors. Petroleum Chemistry, 2021, 61, 1207-1216. | 0.4 | 1 |
| 89 | Reactive Adsorption Desulfurization of Olefin-Containing Feedstocks over Ni/ZnOâ€“Al2O3 Adsorbents: Effects of ZnOâ€“Al2O3 Support Composition. Petroleum Chemistry, 0, , . | 0.4 | 1 |
| 90 | Crystal structure of pentafluoroacetanilide. Journal of Structural Chemistry, 2015, 56, 1201-1204. | 0.3 | 0 |

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|---|---|---|---|
| 91 | Pyrolysis of Vegetal Feedstock â€“ Feasibility of Producing Motor Fuel Components. Chemistry and Technology of Fuels and Oils, 2018, 53, 817-822. | 0.2 | 0 |
| 92 | 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. | 0.2 | 0 |
| 93 | New Bimetallic Hydrotreating Catalyst MoWS2 Based on Heteropoly Acid SiMo3W9 and Mesostructured Silicate COK-12. Petroleum Chemistry, 2020, 60, 616-621. | 0.4 | 0 |
| 94 | The Current State of Development of Greases. Chemistry and Technology of Fuels and Oils, 2021, 57, 279. | 0.2 | 0 |