Alexey Vakhin

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4870143/publications.pdf Version: 2024-02-01



Διεχέν Πλαμινι

#	Article	IF	CITATIONS
1	Development of a catalyst based on mixed iron oxides for intensification the production of heavy hydrocarbon feedstocks. Fuel, 2022, 312, 123005.	3.4	12
2	Transformation of the Organic Matter of Low-Permeability Domanik Rock in Supercritical Water and 1-Propanol (A Review). Petroleum Chemistry, 2022, 62, 62-82.	0.4	3
3	Hydrocarbon Composition of Products Formed by Transformation of the Organic Matter of Rocks from Tatarstan Domanik Deposits in Supercritical Water. Petroleum Chemistry, 2022, 62, 199-213.	0.4	4
4	Thermal Decomposition of Kerogen in High-Carbon Domanic Rock of the Romashkino Oilfield in Sub- and Supercritical Water. Energy & Fuels, 2022, 36, 3549-3562.	2.5	10
5	Microelemental Composition of Petroleum Extracts and Asphaltenes from Rocks of High-Carbon Domanik Sediments of Tatarstan. Petroleum Chemistry, 2022, 62, 383-396.	0.4	2
6	Thermal Behavior of Heavy Oil Catalytic Pyrolysis and Aquathermolysis. Catalysts, 2022, 12, 449.	1.6	19
7	Changes in Heavy Oil Saturates and Aromatics in the Presence of Microwave Radiation and Iron-Based Nanoparticles. Catalysts, 2022, 12, 514.	1.6	15
8	Thermogravimetric Study on Peat Catalytic Pyrolysis for Potential Hydrocarbon Generation. Processes, 2022, 10, 974.	1.3	3
9	Influence of High-Molecular <i>n</i> -Alkane Associates on Rheological Behavior of the Crude Oil Residue. Energy & Fuels, 2022, 36, 6755-6770.	2.5	4
10	In Situ Combustion of Heavy, Medium, and Light Crude Oils: Low-Temperature Oxidation in Terms of a Chain Reaction Approach. Energy & Fuels, 2022, 36, 7710-7721.	2.5	22
11	Iron oxide nanoparticles impact on improving reservoir rock minerals catalytic effect on heavy oil aquathermolysis. Fuel, 2022, 327, 124956.	3.4	22
12	Application of Aromatic and Industrial Solvents for Enhancing Heavy Oil Recovery from the Ashalcha Field. Energy & Fuels, 2021, 35, 374-385.	2.5	25
13	Catalytic Hydrothermal Conversion of Heavy Oil in the Porous Media. Energy & Fuels, 2021, 35, 1297-1307.	2.5	20
14	Extra-Heavy Oil Aquathermolysis Using Nickel-Based Catalyst: Some Aspects of In-Situ Transformation of Catalyst Precursor. Catalysts, 2021, 11, 189.	1.6	35
15	The Role of Nanodispersed Catalysts in Microwave Application during the Development of Unconventional Hydrocarbon Reserves: A Review of Potential Applications. Processes, 2021, 9, 420.	1.3	23
16	Investigation of Structural-Phase Conversion of an Iron-Containing Catalyst by Mössbauer Spectroscopy (Part 2). Journal of Applied Spectroscopy, 2021, 88, 92-96.	0.3	3
17	Transformation of Carbon-Rich Organic Components of a Domanik Rock in Sub- and Supercritical Aqueous Fluids. Petroleum Chemistry, 2021, 61, 608-623.	0.4	7
18	Molecular Dynamics and Proton Hyperpolarization via Synthetic and Crude Oil Porphyrin Complexes in Solid and Solution States. Langmuir, 2021, 37, 6783-6791.	1.6	14

#	Article	IF	CITATIONS
19	Composition and Distribution of Microelements in Rocks, Extracts, and Asphaltenes from Domanik Deposits of Various Lithologo-Facial Types of Romashkino Oilfield. Petroleum Chemistry, 2021, 61, 576-587.	0.4	3
20	Transformation of Resinous Components of the Ashalcha Field Oil during Catalytic Aquathermolysis in the Presence of a Cobalt-Containing Catalyst Precursor. Catalysts, 2021, 11, 745.	1.6	13
21	Features of the Isotope–Geochemical Carbon Composition of Oil in Fields at the South Tatar Arch. Geochemistry International, 2021, 59, 548-558.	0.2	0
22	Hydrothermal Impact on Hydrocarbon Generation from Low-Permeable Domanic Sedimentary Rocks with Different Lithofacies. Energy & Fuels, 2021, 35, 11223-11238.	2.5	6
23	Influence of Naphthenic Hydrocarbons and Polar Solvents on the Composition and Structure of Heavy-Oil Aquathermolysis Products. Industrial & Engineering Chemistry Research, 2021, 60, 13191-13203.	1.8	6
24	Catalytic Oxidation of Heavy Residual Oil by Pulsed Nuclear Magnetic Resonance. Processes, 2021, 9, 158.	1.3	5
25	In-Situ Heavy Oil Aquathermolysis in the Presence of Nanodispersed Catalysts Based on Transition Metals. Processes, 2021, 9, 127.	1.3	45
26	Deep Insights into Heavy Oil Upgrading Using Supercritical Water by a Comprehensive Analysis of GC, GC–MS, NMR, and SEM–EDX with the Aid of EPR as a Complementary Technical Analysis. ACS Omega, 2021, 6, 135-147.	1.6	25
27	A Review on the Role of Amorphous Aluminum Compounds in Catalysis: Avenues of Investigation and Potential Application in Petrochemistry and Oil Refining. Processes, 2021, 9, 1811.	1.3	14
28	Effect of Ligand Structure on the Kinetics of Heavy Oil Oxidation: Toward Biobased Oil-Soluble Catalytic Systems for Enhanced Oil Recovery. Industrial & Engineering Chemistry Research, 2021, 60, 14713-14727.	1.8	19
29	Composition of Oil after Hydrothermal Treatment of Cabonate-Siliceous and Carbonate Domanic Shale Rocks. Processes, 2021, 9, 1798.	1.3	3
30	Underground Upgrading of the Heavy Crude Oil in Content-Saturated Sandstone with Aquathermolysis in the Presence of an Iron Based Catalyst. Catalysts, 2021, 11, 1255.	1.6	7
31	Conversion of Organic Matter of Carbonate Deposits in the Hydrothermal Fluid. Processes, 2021, 9, 1893.	1.3	0
32	Resonator Method for Studying Dielectric Characteristics of Ðjaustobiolithes. Journal of Siberian Federal University: Chemistry, 2021, 14, 315-324.	0.1	1
33	A Thermal Study on Peat Oxidation Behavior in the Presence of an Iron-Based Catalyst. Catalysts, 2021, 11, 1344.	1.6	4
34	Microwave Radiation Impact on Heavy Oil Upgrading from Carbonate Deposits in the Presence of Nano-Sized Magnetite. Processes, 2021, 9, 2021.	1.3	11
35	Aquathermolysis of high-viscosity oil terrigenic sediments in the presence of iron oxide (II, III). , 2021, 3, 75-81.		0
36	Features of the elemental, structural-group, and microelement composition of asphaltenes from natural bitumens of the Permian deposits of Tatarstan. Petroleum Science and Technology, 2020, 38, 18-23.	0.7	0

#	Article	IF	CITATIONS
37	Thermal Study on Stabilizing the Combustion Front via Bimetallic Mn@Cu Tallates during Heavy Oil Oxidation. Energy & Fuels, 2020, 34, 5121-5127.	2.5	19
38	Conversion of High-Carbon Domanic Shale in Sub- and Supercritical Waters. Energy & Fuels, 2020, 34, 1329-1336.	2.5	25
39	Transformation of Organic Matter of Domanik Rock from the Romashkino Oilfield in Sub- and Supercritical Water. Petroleum Chemistry, 2020, 60, 683-692.	0.4	10
40	Heavy Oil Hydrocarbons and Kerogen Destruction of Carbonate–Siliceous Domanic Shale Rock in Sub- and Supercritical Water. Processes, 2020, 8, 800.	1.3	14
41	Corrigendum to "The Oil-Bearing Strata of Permian Deposits of the Ashal'cha Oil Field Depending on the Content, Composition, and Thermal Effects of Organic Matter Oxidation in the Rocks― Geofluids, 2020, 2020, 1-1.	0.3	0
42	Investigation of Structural Phase Conversions of an Iron-Containing Catalyst by Mossbauer Spectroscopy (Part 1). Journal of Applied Spectroscopy, 2020, 87, 680-684.	0.3	3
43	The Oil-Bearing Strata of Permian Deposits of the Ashal'cha Oil Field Depending on the Content, Composition, and Thermal Effects of Organic Matter Oxidation in the Rocks. Geofluids, 2020, 2020, 1-19.	0.3	2
44	Hydrothermal Transformations of Organic Matter of Carbon-Rich Domanik Rock in Carbon Dioxide Environment at Different Temperatures. Petroleum Chemistry, 2020, 60, 278-290.	0.4	6
45	Catalytic Aquathermolysis of Boca de Jaruco Heavy Oil with Nickel-Based Oil-Soluble Catalyst. Processes, 2020, 8, 532.	1.3	35
46	The Composition and Structure of Ultra-Dispersed Mixed Oxide (II, III) Particles and Their Influence on In-Situ Conversion of Heavy Oil. Catalysts, 2020, 10, 114.	1.6	32
47	Comparative Kinetic Study on Heavy Oil Oxidation in the Presence of Nickel Tallate and Cobalt Tallate. Energy & Fuels, 2019, 33, 9107-9113.	2.5	19
48	Impact of Iron Tallate on the Kinetic Behavior of the Oxidation Process of Heavy Oils. Energy & Fuels, 2019, 33, 7678-7683.	2.5	24
49	Native Vanadyl Complexes in Crude Oil as Polarizing Agents for In Situ Proton Dynamic Nuclear Polarization. Energy & Fuels, 2019, 33, 10923-10932.	2.5	29
50	Comparative Study of Changes in the Composition of Organic Matter of Rocks from Different Sampling-Depth Intervals of Domanik and Domankoid Deposits of the Romashkino Oilfield. Petroleum Chemistry, 2019, 59, 1124-1137.	0.4	7
51	Composition features of hydrocarbons and rocks of Domanic deposits of different oil fields in the Tatarstan territory. Petroleum Science and Technology, 2019, 37, 374-381.	0.7	9
52	The composition of aromatic destruction products of Domanic shale kerogen after aquathermolysis. Petroleum Science and Technology, 2019, 37, 390-395.	0.7	24
53	The material balance of organic matter of Domanic shale formation after thermal treatment. Petroleum Science and Technology, 2019, 37, 756-762.	0.7	14
54	A new approach for measuring rheology of polymer solutions in reservoir conditions. Journal of Petroleum Science and Engineering, 2019, 181, 106160.	2.1	2

#	Article	IF	CITATIONS
55	Composition of Hydrothermal–Catalytic Conversion Products of Asphaltite from the Spiridonovskoe Oilfield. Petroleum Chemistry, 2019, 59, 48-56.	0.4	5
56	Effect of the Natural Minerals Pyrite and Hematite on the Transformation of Domanik Rock Organic Matter in Hydrothermal Processes. Petroleum Chemistry, 2019, 59, 24-33.	0.4	15
57	The aquathermolysis of heavy oil from Riphean-Vendian complex with iron-based catalyst: FT-IR spectroscopy data. Petroleum Science and Technology, 2019, 37, 1410-1416.	0.7	11
58	Changes in the subfractional composition of heavy oil asphaltenes under aquathermolysis with oil-soluble CO-based catalyst. Petroleum Science and Technology, 2019, 37, 1589-1595.	0.7	17
59	Influence of nanosized iron oxides (II, III) on conversion of biodegradated oil. Petroleum Science and Technology, 2019, 37, 971-976.	0.7	12
60	Hydrothermal transformation of heavy oil and organic matter from carbonate rocks of oil fields of Tatarstan. Petroleum Science and Technology, 2019, 37, 528-534.	0.7	3
61	Effects of calcite and dolomite on conversion of heavy oil under subcritical condition. Petroleum Science and Technology, 2019, 37, 687-693.	0.7	35
62	Kinetic Study on Heavy Oil Oxidation by Copper Tallates. Energy & Fuels, 2019, 33, 12690-12695.	2.5	18
63	Aquathermolysis of heavy oil in the presence of bimetallic catalyst that form in-situ from the mixture of oil-soluble iron and cobalt precursors. Georesursy, 2019, 21, 62-67.	0.3	5
64	Intensification of oil production by hydraulic fracturing method from terrigenous reservoirs in depleting oil field. Petroleum Science and Technology, 2018, 36, 591-596.	0.7	1
65	The transformation of high-viscosity oil of carbonate rock in the presence of CO[AcAc] ₃ catalyst in a vapor-air medium. Petroleum Science and Technology, 2018, 36, 1001-1006.	0.7	13
66	Influence of the Nature of Metals and Modifying Additives on Changes in the Structure of Heavy Oil in a Catalytic Aquathermolysis System. Petroleum Chemistry, 2018, 58, 190-196.	0.4	17
67	Catalytic Aquathermolysis of High-Viscosity Oil Using Iron, Cobalt, and Copper Tallates. Chemistry and Technology of Fuels and Oils, 2018, 53, 905-912.	0.2	30
68	Influence of Hydrothermal and Pyrolysis Processes on the Transformation of Organic Matter of Dense Low-Permeability Rocks from Domanic Formations of the Romashkino Oil Field. Geofluids, 2018, 2018, 1-14.	0.3	24
69	On Certain Characteristics of Ultrasound Attenuation in Suspensions of High-Molecular Oil Components. Acoustical Physics, 2018, 64, 567-571.	0.2	4
70	Intraformation Transformation of Heavy Oil by Mixed Fe(II, III) Oxides. Chemistry and Technology of Fuels and Oils, 2018, 54, 574-580.	0.2	21
71	Aquathermolysis of heavy oil in reservoir conditions with the use of oil-soluble catalysts: part II – changes in composition of aromatic hydrocarbons. Petroleum Science and Technology, 2018, 36, 1850-1856.	0.7	30
72	Aquathermolysis of heavy oil in reservoir conditions with the use of oil-soluble catalysts: part III – changes in composition resins and asphaltenes. Petroleum Science and Technology, 2018, 36, 1857-1863.	0.7	35

#	Article	IF	CITATIONS
73	Peculiarities of Hydrocarbon Generation in Procsses of Transformation of Organic Matter of Domanikovian Rocks in Various Media of Hydrothermal System. Chemistry and Technology of Fuels and Oils, 2018, 54, 446-456.	0.2	2
74	Composition of aquathermolysis catalysts forming in situ from oil-soluble catalyst precursor mixtures. Journal of Petroleum Science and Engineering, 2018, 169, 44-50.	2.1	45
75	Composition of Shale Oil from Poorly Permeable Carbonate Rocks of Domanikovian Deposits of Dankov-Lebedyan Horizon of Romashkino Field. Chemistry and Technology of Fuels and Oils, 2018, 54, 173-186.	0.2	4
76	The influence of transition metals – Fe, Co, Cu on transformation of organic matters from Domanic rocks in hydrothermal catalytic system. Petroleum Science and Technology, 2018, 36, 1382-1388.	0.7	8
77	Conversion of Heavy Oil with Different Chemical Compositions under Catalytic Aquathermolysis with an Amphiphilic Fe-Co-Cu Catalyst and Kaolin. Energy & Fuels, 2018, 32, 6488-6497.	2.5	41
78	Study of Fractional Composition of Asphaltenes in Hydrocarbon Material. Chemistry and Technology of Fuels and Oils, 2018, 54, 44-50.	0.2	12
79	Change in the structural-group composition of bitumen asphaltenes upon thermal bitumen recovery. Petroleum Chemistry, 2017, 57, 198-202.	0.4	24
80	Conversion of the Organic Matter of Domanic Shale and Permian Bituminous Rocks in Hydrothermal Catalytic Processes. Energy & Fuels, 2017, 31, 7789-7799.	2.5	33
81	Mössbauer study of products of the thermocatalytic treatment of kerogen-containing rocks. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 817-821.	0.1	17
82	Transformations of hydrocarbons of Ashal'hinskoe heavy oil under catalytic aquathermolysis conditions. Petroleum Chemistry, 2017, 57, 657-665.	0.4	44
83	Aquathermolysis of High-Viscosity Oil in the Presence of an Oil-Soluble Iron-Based Catalyst. Chemistry and Technology of Fuels and Oils, 2017, 53, 666-674.	0.2	22
84	Road bitumen's based on the vacuum residue of heavy oil and natural asphaltite: Part II – physical and mechanical properties. Petroleum Science and Technology, 2017, 35, 1687-1691.	0.7	7
85	Influence of the Structure of Heavy Oil Disperse System on its Rheological Properties Under Steam-Heat Treatment Conditions. Chemistry and Technology of Fuels and Oils, 2017, 53, 470-479.	0.2	2
86	Road bitumen's based on the vacuum residue of heavy oil and natural asphaltite: Part I – chemical composition. Petroleum Science and Technology, 2017, 35, 1680-1686.	0.7	6
87	Change in the Hydrocarbon and Component Compositions of Heavy Crude Ashalchinsk Oil Upon Catalytic Aquathermolysis. Chemistry and Technology of Fuels and Oils, 2017, 53, 173-180.	0.2	3
88	Thermal Transformation of the Mobile-Hydrocarbon Composition of Domanik Deposits of Volga-Ural Oil-and Gas-Bearing Province. Chemistry and Technology of Fuels and Oils, 2017, 53, 511-519.	0.2	15
89	Chemical evaluation and kinetics of Siberian, north regions of Russia and Republic of Tatarstan crude oils. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 1031-1038.	1.2	28
90	Characteristic features of the hydrocarbon composition of Spiridonovskoe (Tatarstan) and Pitch Lake (Trinidad and Tobago) asphaltites. Petroleum Chemistry, 2016, 56, 572-579.	0.4	13

#	Article	IF	CITATIONS
91	Generation of Hydrocarbons by Hydrothermal Transformation of Organic Matter of Domanik Rocks. Chemistry and Technology of Fuels and Oils, 2016, 52, 149-161.	0.2	33
92	Changes of Asphaltenes' Structural Phase Characteristics in the Process of Conversion of Heavy Oil in the Hydrothermal Catalytic System. Energy & Fuels, 2016, 30, 773-783.	2.5	51
93	Influence of rock-forming and catalytic additives on transformation of highly viscous heavy oil. Petroleum Chemistry, 2016, 56, 21-26.	0.4	17
94	Aquathermolysis of crude oils and natural bitumen: chemistry, catalysts and prospects for industrial implementation. Russian Chemical Reviews, 2015, 84, 1145-1175.	2.5	59
95	Application of Thermal Investigation Methods in Developing Heavy-Oil Production Technologies. Chemistry and Technology of Fuels and Oils, 2015, 50, 569-578.	0.2	11
96	Contribution of thermal analysis and kinetics of Siberian and Tatarstan regions crude oils for in situ combustion process. Journal of Thermal Analysis and Calorimetry, 2015, 122, 1375-1384.	2.0	42
97	Study of the Rheological Properties of Heat-Treatment Products of Asphaltic Oils in the Presence of Rock-Forming Minerals. Chemistry and Technology of Fuels and Oils, 2015, 51, 133-139.	0.2	12
98	Conversion of extra-heavy Ashal'chinskoe oil in hydrothermal catalytic system. Petroleum Chemistry, 2015, 55, 104-111.	0.4	23
99	Composition of Oils of Carbonate Reservoirs in Current and Ancient Water—Oil Contact Zones. Chemistry and Technology of Fuels and Oils, 2015, 51, 117-126.	0.2	13
100	Conversion Processes for High-Viscosity Heavy Crude Oil in Catalytic and Noncatalytic Aquathermolysis. Chemistry and Technology of Fuels and Oils, 2014, 50, 315-326.	0.2	38
101	Promising Aspects of Heavy Oil and Native Asphalt Conversion Under Field Conditions. Chemistry and Technology of Fuels and Oils, 2014, 50, 185-188.	0.2	11
102	Electron Paramagnetic Resonance Study of Rotational Mobility of Vanadyl Porphyrin Complexes in Crude Oil Asphaltenes: Probing the Effect of Thermal Treatment of Heavy Oils. Energy & Fuels, 2014, 28, 6683-6687.	2.5	44
103	Oils and lubricants based on high-viscosity heavy crude oil from the Ashal'chinskoe field. Chemistry and Technology of Fuels and Oils, 2013, 49, 333-341.	0.2	4
104	Hydrogenation processes for white-oil production from Ashal'cha heavy crude. Chemistry and Technology of Fuels and Oils, 2012, 48, 262-272.	0.2	2
105	Hydrothermal transformations of asphaltenes. Petroleum Chemistry, 2012, 52, 5-14.	0.4	23
106	Composition of the high-molecular-mass components of oil- and bitumen-bearing rocks and their hydrothermal transformation products. Petroleum Chemistry, 2011, 51, 231-242.	0.4	12
107	Detection of biomarkers in the organic matter of rocks from the Romashkinskoe oil field using gas chromatography-mass spectrometry. Journal of Analytical Chemistry, 2010, 65, 438-444.	0.4	3
108	Transformation of residual oil in producing formations of the Romashkino oil field during hydrothermal treatment. Petroleum Chemistry, 2007, 47, 318-330.	0.4	6

#	Article	IF	CITATIONS
109	Differentiation of Romashkino crude oils according to biomarker hydrocarbon parameters. Petroleum Chemistry, 2006, 46, 314-323.	0.4	8
110	Petroleum crudes and products — Soil pollutants. Attempted classification based on biodegradation. Chemistry and Technology of Fuels and Oils, 1999, 35, 315-324.	0.2	1