

Alexey G Dedov

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Effect of the oxidizing capacity of ceria-based support on the conversion of methane to syngas. <i>Mendelev Communications</i> , 2022, 32, 129-131.	1.6	3
2	Exsolution-like synthesis of Ni/(Nd ₂ O ₃ ,CaO) nanocomposites from Nd ₂ -xCa _x NiO ₄ precursors for catalytic applications. <i>Journal of Solid State Chemistry</i> , 2022, 312, 123267.	2.9	4
3	Isobutanol conversion to petrochemicals using MFI-based catalysts synthesized by a hydrothermal-microwave method. <i>Catalysis Today</i> , 2021, 367, 199-204.	4.4	5
4	A new method for synthesis of a HMFI/SiC composite. <i>Materials Letters</i> , 2021, 290, 129497.	2.6	1
5	Synthesis and Decomposition of Nd ₂ –yCa _y Co ₁ –xNi _x O ₄ : The Effect of Resynthesis on the Catalytic Performance of Decomposition Products in the Partial Oxidation of Methane. <i>ACS Applied Energy Materials</i> , 2021, 4, 7661-7673.	5.1	5
6	Polyaromatic-terminated iron(ii) clathrochelates as electrocatalysts for efficient hydrogen production in water electrolysis cells with polymer electrolyte membrane. <i>Mendelev Communications</i> , 2021, 31, 20-23.	1.6	8
7	Bioisobutanol as a Promising Feedstock for Production of “Green” Hydrocarbons and Petrochemicals (A Review). <i>Petroleum Chemistry</i> , 2021, 61, 1139-1157.	1.4	9
8	Conversion of ethyl acetate into benzene–toluene–xylene fraction over MFI zeolite-based catalysts. <i>Mendelev Communications</i> , 2020, 30, 459-461.	1.6	2
9	New multifunctional biocomposite material for hydrocarbon detection and reclamation on the surface of water areas. <i>Mendelev Communications</i> , 2020, 30, 527-530.	1.6	2
10	Electrocatalytic hydrogen production using the designed hexaphenanthrene iron, cobalt and ruthenium(II) cage complexes as cathode (pre)catalysts immobilized on carbonaceous substrates. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26206-26216.	7.1	16
11	New types of the hybrid functional materials based on cage metal complexes for (electro) catalytic hydrogen production. <i>Pure and Applied Chemistry</i> , 2020, 92, 1159-1174.	1.9	11
12	Preparation and Electrochemistry of Iron, Ruthenium, and Cobalt(II) Hexaphenanthrene Clathrochelates Designed for Efficient Electrocatalytic Hydrogen Production and Their Physisorption on Carbon Materials. <i>Journal of the Electrochemical Society</i> , 2019, 166, H598-H607.	2.9	7
13	Trimetallic NiCoM catalysts (M = Mn, Fe, Cu) for methane conversion into synthesis gas. <i>Mendelev Communications</i> , 2019, 29, 22-24.	1.6	8
14	New heterogeneous catalytic systems based on highly porous ceramic materials modified with immobilized d-metal cage complexes for H ₂ production from CH ₄ . <i>Mendelev Communications</i> , 2019, 29, 669-671.	1.6	3
15	Molecular design and structural peculiarities of the 3- and 4-pyridylboron-capped tris-glyoximate and tris-dichloroglyoximate iron(II) clathrochelates with apical donor groups. <i>Polyhedron</i> , 2019, 160, 108-114.	2.2	5
16	Immobilization of functionalized iron(II) clathrochelates with terminal (poly)aromatic group(s) on carbonaceous materials and their detailed cyclic voltammetry study. <i>Electrochimica Acta</i> , 2018, 269, 590-609.	5.2	10
17	A novel direct catalytic production of p-xylene from isobutanol. <i>Mendelev Communications</i> , 2018, 28, 352-353.	1.6	6
18	Spectrophotometrical Study of the Physisorption of Iron(II) Clathrochelates Containing Terminal Phenanthrenyl Group(s) on Carbon Paper. <i>Macroheterocycles</i> , 2018, 11, 449-453.	0.5	4

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19	Hydrogen production with a designed clathrochelate-based electrocatalytic materials: Synthesis, X-ray structure and redox-properties of the iron cage complexes with pendant (poly)aryl-terminated ribbed substituents. International Journal of Hydrogen Energy, 2017, 42, 27894-27909.	7.1	18
20	Influence of the Ni/Co ratio in bimetallic NiCo catalysts on methane conversion into synthesis gas. Mendeleev Communications, 2017, 27, 509-511.	1.6	15
21	Comparative analysis of NdCaCoO ₄ phase formation from cryogel and from solid state precursors. Journal of Sol-Gel Science and Technology, 2017, 81, 372-377.	2.4	3
22	Mesoporous amorphous silicate catalysts for biogas reforming. Catalysis Today, 2012, 189, 129-135.	4.4	14