Alexey G Dedov

List of Publications by Year
in descending order

22	159	1163117 8	1199594 12
papers	citations	h-index	g-index

22	22	22	222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Electrocatalytic hydrogen production using the designed hexaphenanthrene iron, cobalt and ruthenium(II) cage complexes as cathode (pre)catalysts immobilized on carbonaceous substrates. International Journal of Hydrogen Energy, 2020, 45, 26206-26216.	7.1	16
3	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
4	Mesoporous amorphous silicate catalysts for biogas reforming. Catalysis Today, 2012, 189, 129-135.	4.4	14
5	New types of the hybrid functional materials based on cage metal complexes for (electro) catalytic hydrogen production. Pure and Applied Chemistry, 2020, 92, 1159-1174.	1.9	11
6	Immobilization of functionalized iron(II) clathrochelates with terminal (poly)aromatic group(s) on carbonaceous materials and their detailed cyclic voltammetry study. Electrochimica Acta, 2018, 269, 590-609.	5.2	10
7	Bioisobutanol as a Promising Feedstock for Production of â€œGreenâ€•Hydrocarbons and Petrochemicals (A Review). Petroleum Chemistry, 2021, 61, 1139-1157.	1.4	9
8	Trimetallic NiCoM catalysts (M = Mn, Fe, Cu) for methane conversion into synthesis gas. Mendeleev Communications, 2019, 29, 22-24.	1.6	8
9	Polyaromatic-terminated iron(ii) clathrochelates as electrocatalysts for efficient hydrogen production in water electrolysis cells with polymer electrolyte membrane. Mendeleev Communications, 2021, 31, 20-23.	1.6	8
10	Preparation and Electrochemistry of Iron, Ruthenium, and Cobalt(II) Hexaphenanthrene Clathrochelates Designed for Efficient Electrocatalytic Hydrogen Production and Their Physisorption on Carbon Materials. Journal of the Electrochemical Society, 2019, 166, H598-H607.	2.9	7
11	A novel direct catalytic production of p-xylene from isobutanol. Mendeleev Communications, 2018, 28, 352-353.	1.6	6
12	Molecular design and structural pecularities of the 3- and 4-pyridylboron-capped tris-glyoximate and tris-dichloroglyoximate iron(II) clathrochelates with apical donor groups. Polyhedron, 2019, 160, 108-114.	2.2	5
13	Isobutanol conversion to petrochemicals using MFI-based catalysts synthesized by a hydrothermal-microwave method. Catalysis Today, 2021, 367, 199-204.	4.4	5
14	Synthesis and Decomposition of Nd2â€“yCayCo1â€“xNixO4: The Effect of Resynthesis on the Catalytic Performance of Decomposition Products in the Partial Oxidation of Methane. ACS Applied Energy Materials, 2021, 4, 7661-7673.	5.1	5
15	Spectrophotometrical Study of the Physisorption of Iron(II) Clathrochelates Containing Terminal Phenanthrenyl Group(s) on Carbon Paper. Macroheterocycles, 2018, 11, 449-453.	0.5	4
16	Exsolution-like synthesis of Ni/(Nd2O3,CaO) nanocomposites from Nd2-xCaxNiO4 precursors for catalytic applications. Journal of Solid State Chemistry, 2022, 312, 123267.	2.9	4
17	Comparative analysis of NdCaCoO4 phase formation from cryogel and from solid state precursors. Journal of Sol-Gel Science and Technology, 2017, 81, 372-377.	2.4	3
18	New heterogeneous catalytic systems based on highly porous ceramic materials modified with immobilized d-metal cage complexes for H2 production from CH4. Mendeleev Communications, 2019, 29, 669-671.	1.6	3

#	Article	IF	Citations
19	Effect of the oxidizing capacity of ceria-based support on the conversion of methane to syngas. Mendeleev Communications, 2022, 32, 129-131.	1.6	3
20	Conversion of ethyl acetate into benzeneâ€“tolueneâ€“xylene fraction over MFI zeolite-based catalysts. Mendeleev Communications, 2020, 30, 459-461.	1.6	2
21	New multifunctional biocomposite material for hydrocarbon detection and reclamation on the surface of water areas. Mendeleev Communications, 2020, 30, 527-530.	1.6	2
22	A new method for synthesis of a HMFI/SiC composite. Materials Letters, 2021, 290, 129497.	2.6	1