

# Leonid Kustov

## List of Publications by Citations

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58  
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434  
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L-index

#	Paper	IF	Citations
404	Effects of the support on the morphology and electronic properties of supported metal clusters: modern concepts and progress in 1990s. <i>Applied Catalysis A: General</i> , <b>1999</b> , 188, 3-35	5.1	344
403	Adsorption of carbon monoxide on ZSM-5 zeolites: infrared spectroscopic study and quantum-chemical calculations. <i>The Journal of Physical Chemistry</i> , <b>1987</b> , 91, 5247-5251		208
402	Organic and hybrid molecular systems. <i>Mendeleev Communications</i> , <b>2015</b> , 25, 75-82	1.9	163
401	Nanoshaped CuO/CeO <sub>2</sub> Materials: Effect of the Exposed Ceria Surfaces on Catalytic Activity in N <sub>2</sub> O Decomposition Reaction. <i>ACS Catalysis</i> , <b>2015</b> , 5, 5357-5365	13.1	149
400	Measuring and predicting Delta(vap)H <sub>298</sub> values of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 8544-55	3.6	143
399	Ultrasound enhancement of cellulose processing in ionic liquids: from dissolution towards functionalization. <i>Green Chemistry</i> , <b>2007</b> , 9, 1229	10	116
398	Comparative IR-spectroscopic study of low-temperature H <sub>2</sub> and CO adsorption on Na zeolites. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1994</b> , 90, 3367-3372		105
397	The application of metal-organic frameworks in catalysis (Review). <i>Petroleum Chemistry</i> , <b>2010</b> , 50, 167-180		93
396	Challenges in the development of organic and hybrid molecular systems. <i>Mendeleev Communications</i> , <b>2016</b> , 26, 365-374	1.9	86
395	Reaction products and transformations of intermediates in the aqueous-phase reforming of sorbitol. <i>ChemSusChem</i> , <b>2010</b> , 3, 708-18	8.3	84
394	Organic and hybrid systems: from science to practice. <i>Mendeleev Communications</i> , <b>2017</b> , 27, 425-438	1.9	79
393	Aqueous phase reforming of xylitol and sorbitol: Comparison and influence of substrate structure. <i>Applied Catalysis A: General</i> , <b>2012</b> , 435-436, 172-180	5.1	73
392	Heterogenized palladium chitosan complexes as potential catalysts in oxidation reactions: study of the structure. <i>Journal of Molecular Catalysis A</i> , <b>2004</b> , 209, 97-106		73
391	Ecotoxicity of different-shaped silver nanoparticles: Case of zebrafish embryos. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 347, 89-94	12.8	71
390	Infrared spectroscopic study of the interaction of cations in zeolites with simple molecular probes. Part 1. Adsorption of molecular hydrogen on alkaline forms of zeolites as a test for localization sites. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 2675-2678		65
389	Selective oxidation of ethanol to acetaldehyde over Au/Cu catalysts prepared by a redox method. <i>Catalysis Today</i> , <b>2015</b> , 241, 246-254	5.3	64
388	Ionic liquids as heat transfer fluids: comparison with known systems, possible applications, advantages and disadvantages. <i>Russian Chemical Reviews</i> , <b>2015</b> , 84, 875-890	6.8	63

387	The enthalpies of vaporisation of ionic liquids: new measurements and predictions. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 3181-93	3.6	60
386	Catalysis as an important tool of green chemistry. <i>Russian Chemical Reviews</i> , <b>2010</b> , 79, 441-461	6.8	59
385	IR spectroscopic study of Pt/Kl zeolites using adsorption of CO as a molecular probe. <i>Catalysis Letters</i> , <b>1991</b> , 9, 121-126	2.8	56
384	Spectroscopic and ab initio study of the interaction of molecular hydrogen with the isolated silica hydroxyls and related systems. <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 1040-1045		56
383	Pd-Fe nanoparticles stabilized by chitosan derivatives for perchloroethene dechlorination. <i>Environment International</i> , <b>2011</b> , 37, 1044-52	12.9	54
382	An easy way to PdZn nanoalloy with defined composition from a heterobimetallic Pd(DOCMe) <sub>4</sub> Zn(OH) <sub>2</sub> complex as evidenced by XAFS and XRD. <i>Catalysis Letters</i> , <b>2006</b> , 112, 155-161	2.8	49
381	Investigation of hydroxyl groups in crystalline silicoaluminophosphate SAPO-34 by diffuse reflectance infrared spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 897		48
380	Selective oxidation of aromatic compounds on zeolites using N <sub>2</sub> O as a mild oxidant. <i>Catalysis Today</i> , <b>2000</b> , 61, 123-128	5.3	45
379	Aqueous-phase reforming of xylitol over Pt/C and Pt/TiC-CDC catalysts: catalyst characterization and catalytic performance. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 387-401	5.5	44
378	A Brief Review of Carbon Dioxide Hydrogenation to Methanol Over Copper and Iron Based Catalysts. <i>Oil and Gas Science and Technology</i> , <b>2017</b> , 72, 30	1.9	44
377	In situ synthesis of novel ZIF-8 membranes on polymeric and inorganic supports. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 7469-7476	13	43
376	Catalytic properties of Ru nanoparticles introduced in a matrix of hypercrosslinked polystyrene toward the low-temperature oxidation of d-glucose. <i>Journal of Molecular Catalysis A</i> , <b>2007</b> , 278, 112-119		40
375	Methanol synthesis from the catalytic hydrogenation of CO <sub>2</sub> over CuO/ZnO supported on aluminum and silicon oxides. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2017</b> , 78, 416-422	5.3	36
374	Infrared spectroscopic study of the interaction of cations in zeolites with simple molecular probes. Part 3. Adsorption and polarization of methane and ethane on cationic forms of high-silica zeolites. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1993</b> , 89, 1393-1395		36
373	Dehydrogenation of polycyclic naphthenes on a Pt/C catalyst for hydrogen storage in liquid organic hydrogen carriers. <i>Fuel Processing Technology</i> , <b>2018</b> , 169, 94-100	7.2	35
372	A review of recent advances towards the development of QSAR models for toxicity assessment of ionic liquids. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121429	12.8	35
371	A DRIFT spectroscopic study of acetylene adsorbed on metal oxides. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 4718	3.6	33
370	FTIR study of the effects of water pretreatment on the acid sites and the dispersion of metal particles in Y zeolites and mordenites. <i>Journal of Molecular Catalysis</i> , <b>1992</b> , 71, 233-244		32

- 369 Fischer-Tropsch synthesis over MOF-supported cobalt catalysts (Co@MIL-53(Al)). *Dalton Transactions*, **2016**, 45, 12006-14 4.3 31
- 368 Electrodeposition of rare earth metals Y, Gd, Yb in ionic liquids. *Russian Journal of Physical Chemistry A*, **2010**, 84, 104-108 0.7 31
- 367 The State and Reactivity of Pt<sub>6</sub> Particles in ZSM-5 Zeolite. *Catalysis Letters*, **2008**, 120, 8-13 2.8 31
- 366 Liquid-phase hydrogenation of phenylacetylene to styrene on silica-supported PdBe nanoparticles. *Mendeleev Communications*, **2016**, 26, 228-230 1.9 31
- 365 Smart Metal-Organic Frameworks (MOFs): Switching Gas Permeation through MOF Membranes by External Stimuli. *Chemical Engineering and Technology*, **2018**, 41, 224-234 2 31
- 364 Synthesis and Structural Characterization of a Series of Novel Zn(II)-based MOFs with Pyridine-2,5-dicarboxylate Linkers. *Crystal Growth and Design*, **2013**, 13, 5305-5315 3.5 30
- 363 Efficient polymer-based nanocatalysts with enhanced catalytic performance in wet air oxidation of phenol. *Applied Catalysis B: Environmental*, **2010**, 94, 200-210 21.8 30
- 362 Synthesis of Pt modified ZSM-5 and beta zeolite catalysts: influence of ultrasonic irradiation and preparation methods on physico-chemical and catalytic properties in pentane isomerization. *Ultrasonics Sonochemistry*, **2007**, 14, 122-30 8.9 30
- 361 Modelling the toxicity of a large set of metal and metal oxide nanoparticles using the OCHEM platform. *Food and Chemical Toxicology*, **2018**, 112, 507-517 4.7 30
- 360 Metal-Organic Frameworks-Based Catalysts for Biomass Processing. *Catalysts*, **2018**, 8, 368 4 28
- 359 Au/Pt/TiO<sub>2</sub> catalysts prepared by redox method for the chemoselective 1,2-propanediol oxidation to lactic acid and an NMR spectroscopy approach for analyzing the product mixture. *Applied Catalysis A: General*, **2015**, 491, 170-183 5.1 26
- 358 DRIFT, XPS and XAS Investigation of AuNi/Al<sub>2</sub>O<sub>3</sub> Synergetic Catalyst for Allylbenzene Isomerization. *Topics in Catalysis*, **2009**, 52, 344-350 2.3 26
- 357 Metal/zeolite catalysts of methane dehydroaromatization. *Russian Chemical Reviews*, **2013**, 82, 567-585 6.8 25
- 356 Microwave activation of catalysts and catalytic processes. *Russian Journal of Physical Chemistry A*, **2010**, 84, 1676-1694 0.7 25
- 355 Peculiarities of adsorption of organic compounds and water on silicas with bonded polyfluoroalkyl groups. *Journal of Colloid and Interface Science*, **2002**, 254, 39-48 9.3 25
- 354 Control of morphology and size of microporous framework MIL-53(Al) crystals by synthesis procedure. *Mendeleev Communications*, **2015**, 25, 466-467 1.9 24
- 353 Lanthanum cobaltite perovskite supported onto mesoporous zirconium dioxide: nature of active sites of VOC oxidation. *Environment International*, **2011**, 37, 1053-6 12.9 23
- 352 Metal-organic frameworks: new materials for hydrogen storage. *Russian Journal of General Chemistry*, **2007**, 77, 721-739 0.7 23

351	Low-temperature transformations of sodium sulfate and sodium selenite in the presence of pre-reduced palladium modifier in graphite furnaces for electrothermal atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2001</b> , 56, 1387-1396	3.1	23
350	Metal-organic frameworks as materials for applications in sensors. <i>Mendeleev Communications</i> , <b>2019</b> , 29, 361-368	1.9	22
349	The effect of capping agents on the toxicity of silver nanoparticles to <i>Danio rerio</i> embryos. <i>Nanotoxicology</i> , <b>2019</b> , 13, 1-13	5.3	22
348	Activity of Au, Ni, and Au-Ni catalysts in the water-gas shift reaction and carbon monoxide oxidation. <i>Kinetics and Catalysis</i> , <b>2014</b> , 55, 311-318	1.5	22
347	A new hydrogen storage system based on efficient reversible catalytic hydrogenation/dehydrogenation of terphenyl. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 2721-2728	6.7	22
346	Catalytic Hydroamination of Unsaturated Hydrocarbons. <i>Topics in Catalysis</i> , <b>2016</b> , 59, 1196-1206	2.3	22
345	New organic/inorganic hybrid molecular systems and highly organized materials in catalysis. <i>Russian Journal of Physical Chemistry A</i> , <b>2015</b> , 89, 2006-2021	0.7	21
344	Infrared spectroscopic study of the interactions of cations in zeolites with simple molecular probes. Part 2. Adsorption and polarization of molecular hydrogen on zeolites containing polyvalent cations. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1992</b> , 88, 3251-3253		21
343	Hydrogenation of carbon dioxide: a comparison of different types of active catalysts. <i>Mendeleev Communications</i> , <b>2014</b> , 24, 349-350	1.9	20
342	Ionic liquids based on the imidazolium cation in platinum and titanium electropolishing. <i>Green Chemistry</i> , <b>2011</b> , 13, 1004	10	20
341	Peculiarities of oxidative coupling of methane in redox cyclic mode over Ag <sub>2</sub> O/SiO <sub>2</sub> catalysts. <i>Applied Catalysis A: General</i> , <b>2010</b> , 380, 28-32	5.1	20
340	Hydrogen storage materials. <i>Mendeleev Communications</i> , <b>2014</b> , 24, 1-8	1.9	19
339	Study of selective adsorption of aromatic compounds from solutions by the flexible MIL-53(Al) metal-organic framework. <i>Russian Chemical Bulletin</i> , <b>2015</b> , 64, 1039-1048	1.7	19
338	Interaction of vanadium containing catalysts with microwaves and their activation in oxidative dehydrogenation of ethane. <i>Catalysis Today</i> , <b>2009</b> , 141, 300-305	5.3	19
337	Evaluation of stability of silica-supported Fe <sub>3</sub> O <sub>4</sub> and FePt nanoparticles in aerobic conditions using thermal analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2014</b> , 118, 749-758	4.1	18
336	Water as an Inhibitor of Metal Corrosion in Hydrophobic Ionic Liquids. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 22526-22531	3.8	18
335	Toxicity of metal nanoparticles with a focus on silver. <i>Mendeleev Communications</i> , <b>2013</b> , 23, 59-65	1.9	18
334	Surface state of sacrificial copper electrode by electropolishing in hydrophobic ionic liquid 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 10551-8	9.5	18

- 333 Nanogold-Containing Catalysts for Low-Temperature Removal of S-VOC from Air. *Topics in Catalysis*, **2009**, 52, 351-358 2.3 18
- 332 Oxidative coupling of methane in the redox cyclic mode over the catalysts on the basis of CeO<sub>2</sub> and La<sub>2</sub>O<sub>3</sub>. *Mendelev Communications*, **2010**, 20, 28-30 1.9 18
- 331 Study of the Nature of Acid Sites of Montmorillonites Pillared with Aluminium and Oligosilsesquioxane Complex Cations. 1. Brønsted Acidity. *Clays and Clay Minerals*, **1994**, 42, 421-427 2.1 18
- 330 Adsorption of 2,4-dichlorophenoxyacetic acid in an aqueous medium on nanoscale MIL-53(Al) type materials. *Dalton Transactions*, **2019**, 48, 15091-15104 4.3 17
- 329 Catalytic activity of H-ZSM-5 and Cu-HZSM-5 zeolites of medium SiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> ratio in conversion of n-hexane to aromatics. *Journal of Petroleum Science and Engineering*, **2019**, 180, 773-778 4.4 17
- 328 Influence of steric factors on reversible reactions of hydrogenation-dehydrogenation of polycyclic aromatic hydrocarbons on a Pt/C catalyst in hydrogen storage systems. *Fuel*, **2020**, 280, 118625 7.1 17
- 327 Microwave activation as an alternative production of metal-organic frameworks. *Russian Chemical Bulletin*, **2016**, 65, 2103-2114 1.7 17
- 326 Microwave-assisted synthesis of mesoporous metal-organic framework NH<sub>2</sub>-MIL-101(Al). *Russian Chemical Bulletin*, **2015**, 64, 2791-2795 1.7 16
- 325 Novel Fe-Pd/SiO<sub>2</sub> catalytic materials for degradation of chlorinated organic compounds in water. *Pure and Applied Chemistry*, **2014**, 86, 1141-1158 2.1 16
- 324 Influence of support acidity on electronic state of platinum in oxide systems promoted by SO<sub>4</sub><sup>2-</sup> anions. *Russian Chemical Bulletin*, **1998**, 47, 1061-1066 1.7 16
- 323 Microwave-assisted synthesis of magnetite nanoparticles possessing superior magnetic properties. *Mendelev Communications*, **2018**, 28, 559-561 1.9 16
- 322 The role of initial hexagonal self-ordering in anodic nanotube growth in ionic liquid. *Electrochemistry Communications*, **2017**, 75, 78-81 5.1 15
- 321 Selective Room-Temperature Hydrogenation of Carbonyl Compounds under Atmospheric Pressure over Platinum Nanoparticles Supported on Ceria-Zirconia Mixed Oxide. *European Journal of Organic Chemistry*, **2019**, 2019, 4159-4170 3.2 15
- 320 One-step hydrothermal microwave-assisted synthesis of LaFeO<sub>3</sub> nanoparticles. *Ceramics International*, **2019**, 45, 14384-14388 5.1 15
- 319 Conversion of CO<sub>2</sub> into liquid hydrocarbons in the presence of a Co-containing catalyst based on the microporous metal-organic framework MIL-53(Al). *Fuel Processing Technology*, **2018**, 176, 101-106 7.2 15
- 318 Effect of surface hydrophilization on Pt/Sibunit catalytic activity in bicyclohexyl dehydrogenation in hydrogen storage application. *International Journal of Hydrogen Energy*, **2018**, 43, 6191-6196 6.7 15
- 317 Platinum-containing catalyst supported on a metal-organic framework structure in the selective oxidation of benzyl alcohol derivatives into aldehydes. *Kinetics and Catalysis*, **2011**, 52, 273-276 1.5 15
- 316 Alkane activation by silica supported Group VB metal hydrides. A quantum-chemical study. *Russian Chemical Bulletin*, **2005**, 54, 300-311 1.7 15

315	Application of silica-supported FeCu nanoparticles in the selective hydrogenation of p-dinitrobenzene to p-phenylenediamine. <i>Russian Journal of Physical Chemistry A</i> , <b>2017</b> , 91, 201-204	0.7	14
314	Intermetallide catalysts for hydrogen storage on the basis of reversible aromatics hydrogenation/dehydrogenation reactions. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 5713-5716	6.7	14
313	Reduction of carbon dioxide with hydrogen on a CuO/ZnO mixed catalyst under supercritical conditions. <i>Mendeleev Communications</i> , <b>2015</b> , 25, 446-448	1.9	14
312	Ionic liquids based on imidazolium tetrafluoroborate for the removal of aromatic sulfur-containing compounds from hydrocarbon mixtures. <i>Green Chemistry</i> , <b>2010</b> , 12, 346	10	14
311	New evidence for the electronic nature of the strong metal-support interaction effect over a Pt/TiO <sub>2</sub> hydrogenation catalyst. <i>Mendeleev Communications</i> , <b>2001</b> , 11, 186-188	1.9	14
310	Self-Organized Hexagonal Nanostructures on Nickel and Steel Formed by Anodization in 1-Butyl-3-methylimidazolium bis(triflate)imide Ionic Liquid. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 21293-21298	3.8	13
309	Mass spectrometric studies of 1-ethyl-3-methylimidazolium and 1-propyl-2,3-dimethylimidazolium bis(trifluoromethyl)-sulfonylimides. <i>Rapid Communications in Mass Spectrometry</i> , <b>2015</b> , 29, 1227-32	2.2	13
308	Oxo/imido heterometathesis of N-sulfinylamines and carbonyl compounds catalyzed by silica-supported vanadium oxochloride. <i>Journal of Catalysis</i> , <b>2011</b> , 283, 108-118	7.3	13
307	Novel metal-organic 1-D coordination polymer based on pyrazine-2,5-dicarboxylate ligands: synthesis and structure investigation. <i>Inorganica Chimica Acta</i> , <b>2011</b> , 376, 367-372	2.7	13
306	Comparative study on dehydrogenation of bulky, branched and polycondensed naphthenes for hydrogen storage in microwave and thermal modes. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 4116-4121	6.7	13
305	Design of novel catalysts for synthesis of 1,5-benzodiazepines from 1,2-phenylenediamine and ketones: NH <sub>2</sub> -MIL-101(Al) as integrated structural scaffold for catalytic materials based on calix[4]arenes. <i>Journal of Catalysis</i> , <b>2019</b> , 369, 60-71	7.3	13
304	Ultra-Small Pd Nanoparticles on Ceria as an Advanced Catalyst for CO Oxidation. <i>Catalysts</i> , <b>2019</b> , 9, 385	4	12
303	Heterogeneous iron-containing nanocatalysts promising systems for selective hydrogenation and hydrogenolysis. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 3160-3174	5.5	12
302	Alkaline-modified ZSM-5 zeolite to control hydrocarbon cold-start emission. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 260, 54-58	5.3	12
301	Adsorption of methane on an MOF-199 organometallic framework structure at high pressures in the range of supercritical temperatures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2016</b> , 52, 24-29	0.9	12
300	Effect of the conditions of preparing mixed oxide catalyst of Mo-V-Te-Nb-O composition on its activity in the oxidative dehydrogenation of ethane. <i>Russian Journal of Physical Chemistry A</i> , <b>2013</b> , 87, 1983-1988	0.7	12
299	Direct d-Glucose Oxidation over Noble Metal Nanoparticles Introduced on Polymer and Inorganic Supports. <i>Topics in Catalysis</i> , <b>2009</b> , 52, 387-393	2.3	12
298	Copper Complexes Stabilized by Chitosans: Peculiarities of the Structure, Redox, and Catalytic Properties. <i>Kinetics and Catalysis</i> , <b>2003</b> , 44, 793-800	1.5	12

297	A new method for the synthesis of nitriles enriched with the $^{15}\text{N}$ isotope. <i>Russian Chemical Bulletin</i> , <b>1994</b> , 43, 402-404	1.7	12
296	Systems for accumulation, storage and release of hydrogen. <i>Russian Chemical Reviews</i> , <b>2020</b> , 89, 897-916.8	6.8	12
295	Carbon Dioxide Hydrogenation on Au Nanoparticles Supported on $\text{TiO}_2$ , $\text{ZrO}_2$ and Sulfated $\text{ZrO}_2$ Under Supercritical Conditions. <i>Topics in Catalysis</i> , <b>2016</b> , 59, 1104-1109	2.3	12
294	Effect of the support morphology on the performance of Co nanoparticles deposited on metal-organic framework MIL-53(Al) in Fischer-Tropsch synthesis. <i>Polyhedron</i> , <b>2019</b> , 157, 389-395	2.7	12
293	Template-free one-step synthesis of micro-mesoporous $\text{CeO}_2/\text{ZrO}_2$ mixed oxides with a high surface area for selective hydrogenation. <i>Ceramics International</i> , <b>2020</b> , 46, 13980-13988	5.1	11
292	Thermal decomposition and reducibility of silica-supported precursors of Cu, Fe and Cu-Fe nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 134, 233-251	4.1	11
291	Gold nanoparticles in environmental catalysis: Influence of the Fe-modified alumina supports on the catalytic behavior of supported gold nanoparticles in CO oxidation in the presence of ammonia. <i>Chemical Engineering Journal</i> , <b>2016</b> , 292, 62-71	14.7	11
290	Nickel-Alumina Catalysts in the Reaction of Carbon Dioxide Re-Forming of Methane under Thermal and Microwave Heating. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 13034-13039	3.9	11
289	1,3-Butadiene Adsorption over Transition Metal Polycation Exchanged Faujasites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 7073-7080	3.9	11
288	Study of Palladium Complexes with Chitosan and Its Derivatives as Potential Catalysts for Terminal Olefin Oxidation. <i>Kinetics and Catalysis</i> , <b>2004</b> , 45, 743-751	1.5	11
287	Activation of ethane in the metathesis reaction on silica-supported tantalum hydride: a quantum-chemical study. <i>Russian Chemical Bulletin</i> , <b>2003</b> , 52, 30-35	1.7	11
286	The state of metals in the supported bimetallic Pt-Bd/ $\text{SO}_4/\text{ZrO}_2$ system. <i>Russian Chemical Bulletin</i> , <b>1999</b> , 48, 1255-1260	1.7	11
285	Carbon Dioxide Reduction with Hydrogen on Carbon-Nanotube-Supported Catalysts under Supercritical Conditions. <i>Energy Technology</i> , <b>2019</b> , 7, 1900174	3.5	10
284	Comparing the activities of catalysts in perhydro-m-terphenyl dehydrogenation. <i>Catalysis in Industry</i> , <b>2015</b> , 7, 60-63	0.8	10
283	Ethane oxidative dehydrogenation to ethylene in a membrane reactor with asymmetric ceramic membranes. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2018</b> , 126, 150-155	3.7	10
282	Direct hydrogenation of $\text{CO}_2$ on deposited iron-containing catalysts under supercritical conditions. <i>Mendeleev Communications</i> , <b>2018</b> , 28, 147-149	1.9	10
281	Influence of the thermal treatment conditions and composition of bimetallic catalysts Fe-Bd/ $\text{SiO}_2$ on the catalytic properties in phenylacetylene hydrogenation. <i>Russian Chemical Bulletin</i> , <b>2016</b> , 65, 432-439	1.7	10
280	One-dimensional heterogeneous model of a Fischer-Tropsch synthesis reactor with a fixed catalyst bed in the isothermal granules approximation. <i>Catalysis in Industry</i> , <b>2013</b> , 5, 223-231	0.8	10



279	Silica-supported iron oxide nanoparticles: unexpected catalytic activity in hydrogenation of phenylacetylene. <i>Mendeleev Communications</i> , <b>2017</b> , 27, 512-514	1.9	10
278	Synthesis and properties of ionic liquids with siloxane-functionalized cations. <i>Russian Chemical Bulletin</i> , <b>2014</b> , 63, 2702-2706	1.7	10
277	The influence of the dispersion of metals on the activity of Pt/C and Pd/C catalysts in the dehydrogenation of perhydroterphenyl. <i>Russian Journal of Physical Chemistry A</i> , <b>2010</b> , 84, 1122-1126	0.7	10
276	Acidic and catalytic properties of silica modified by iron oxide nanoparticles. <i>Catalysis Today</i> , <b>2010</b> , 152, 48-53	5.3	10
275	Isomerization of cyclic hydrocarbons mediated by an AlCl <sub>3</sub> -based ionic liquid as catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2003</b> , 80, 329-335		10
274	Effect of the structure of the ortho, meta, and para isomers of perhydroterphenyl on their reactivity in heterogeneous catalytic dehydrogenation. <i>Kinetics and Catalysis</i> , <b>2016</b> , 57, 219-223	1.5	10
273	Advanced Room-Temperature Synthesis of 2,5-Bis(hydroxymethyl)furan A Monomer for Biopolymers from 5-Hydroxymethylfurfural. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 1161-1171	8.3	10
272	Synthesis and properties of dicationic ionic liquids containing a siloxane structural moiety. <i>Russian Journal of Physical Chemistry A</i> , <b>2015</b> , 89, 2204-2209	0.7	9
271	Decalin ring opening on Pt-Ru/SiO <sub>2</sub> catalysts. <i>Fuel Processing Technology</i> , <b>2018</b> , 173, 270-275	7.2	9
270	Silica-supported copper nanoparticles as efficient catalysts for the liquid-phase selective hydrogenation of p-dinitrobenzene by molecular hydrogen. <i>Russian Chemical Bulletin</i> , <b>2016</b> , 65, 2850-2854	1.7	9
269	Oxidation of Carbon Monoxide over MLaO <sub>x</sub> Perovskites Supported on Mesoporous Zirconia. <i>ChemCatChem</i> , <b>2014</b> , 6, 1990-1997	5.2	9
268	Dicationic polysiloxane ionic liquids. <i>Russian Chemical Bulletin</i> , <b>2017</b> , 66, 1269-1277	1.7	9
267	Hydroxyl-containing ionic liquids as heat-transfer agents. <i>Mendeleev Communications</i> , <b>2017</b> , 27, 605-607	1.9	9
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131	The role of hole defects in the formation of active sites in the catalyst for methane dehydroaromatization. <i>Russian Chemical Bulletin</i> , <b>2015</b> , 64, 269-277	1.7	2
130	Production of hydrogen by supercritical water reforming of O-containing organic components of plant raw materials. <i>Biomass and Bioenergy</i> , <b>2020</b> , 143, 105849	5.3	2
129	Ring Opening of Naphthenic Hydrocarbons on Zeolite Catalysts. <i>Russian Journal of Physical Chemistry A</i> , <b>2020</b> , 94, 317-322	0.7	2
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127	Hydrodeoxygenation of glycerol into propanols over a Ni/WO <sub>3</sub> /TiO <sub>2</sub> catalyst. <i>Mendeleev Communications</i> , <b>2020</b> , 30, 119-120	1.9	2
126	Properties of Dicationic Disiloxane Ionic Liquids. <i>Molecules</i> , <b>2020</b> , 25,	4.8	2
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124	Nitroaldol reaction catalyzed by arylhydrazon di- and triorganotin(IV) complexes. <i>Journal of Organometallic Chemistry</i> , <b>2018</b> , 867, 98-101	2.3	2
123	Electrochemical modification of steel by platinum nanoparticles. <i>Doklady Chemistry</i> , <b>2016</b> , 470, 297-301	0.8	2
122	Selective hydrogenation of 1,3-pentadiene over mono- and bimetallic sulfidized Ni(Cu) <sub>2</sub> /SiO <sub>2</sub> catalysts. <i>Russian Chemical Bulletin</i> , <b>2016</b> , 65, 2841-2844	1.7	2
121	Physicochemical properties of surfaces of SBA-15 silicas, according to adsorption-static, gas-chromatographic, and IR spectroscopic data. <i>Russian Journal of Physical Chemistry A</i> , <b>2016</b> , 90, 191-200	0.7	2
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119	Antioxidant Properties of Amino Acid Derivatives of Fullerene C <sub>60</sub> . <i>Russian Journal of Physical Chemistry A</i> , <b>2019</b> , 93, 2152-2157	0.7	2
118	Sulfated Zirconia-catalyzed Alkylation of Phenol with Camphene and Isomerization of n-butane. <i>Mendeleev Communications</i> , <b>2014</b> , 24, 98-99	1.9	2

117	Preparation of composite membranes on a ceramic base with supported metal-organic framework structure of MOF-199 and study of their adsorption properties. <i>Nanotechnologies in Russia</i> , <b>2014</b> , 9, 416-422	0.6	2
116	Effect of the surface condition of silicas with grafted monofunctional polyfluoroalkylsilanes on the adsorption of polar molecules. <i>Russian Journal of Physical Chemistry A</i> , <b>2013</b> , 87, 1367-1373	0.7	2
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