

Daria A Pichugina

List of Publications by Year in descending order

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papers

303
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932766

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32
times ranked

426
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of H ₂ O ₂ on Au ₂₀ and Au ₁₉ Pd Clusters: Understanding the Structure Effect on the Atomic Level. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6817-6826.	1.1	48
2	Ligand-protected gold clusters: the structure, synthesis and applications. <i>Russian Chemical Reviews</i> , 2015, 84, 1114-1144.	2.5	38
3	A Structural and Stability Evaluation of Au ₁₂ from an Isolated Cluster to the Deposited Material. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11507-11518.	1.5	28
4	Hydrocarbon adsorption on gold clusters: Experiment and quantum chemical modeling. <i>Russian Journal of Physical Chemistry A</i> , 2010, 84, 2133-2142.	0.1	21
5	Spin and structural features of oxygen dissociation on tetrahedral Ag ₂₀ and Ag ₁₉ Au clusters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18033-18044.	1.3	15
6	A theoretical study of the activation of methane by Gold(III) homoleptic complexes. <i>Russian Journal of Physical Chemistry A</i> , 2007, 81, 883-894.	0.1	14
7	Effect of the structure and charge of Au ₁₀ clusters on adsorption of hydrocarbons. <i>Russian Chemical Bulletin</i> , 2010, 59, 2039-2046.	0.4	14
8	Correlation between electronic properties and reactivity toward oxygen of tetrahedral gold-silver clusters. <i>Computational and Theoretical Chemistry</i> , 2015, 1055, 61-67.	1.1	14
9	Quantum chemical study of C-H bond activation in methane molecule by Au ^{III} aqua chloride complexes. <i>Russian Chemical Bulletin</i> , 2006, 55, 195-206.	0.4	12
10	Effect of Gold Electronic State on the Catalytic Performance of Nano Gold Catalysts in n-Octanol Oxidation. <i>Nanomaterials</i> , 2020, 10, 880.	1.9	11
11	Quantum-chemical modeling of ethylene and acetylene adsorption on gold clusters. <i>Russian Journal of Physical Chemistry A</i> , 2014, 88, 959-964.	0.1	10
12	On the Mechanism of the Reaction between Thiolate-Protected Gold Clusters and Molecular Oxygen: What is Activated?. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3080-3086.	1.5	9
13	Activation of oxygen on palladium nanocluster. <i>Nanotechnologies in Russia</i> , 2011, 6, 717-722.	0.7	8
14	Sulfur-containing terpyridine derivatives: synthesis, coordination properties, and adsorption on the gold surface. <i>Russian Chemical Bulletin</i> , 2012, 61, 2265-2281.	0.4	8
15	Structure and reactivity of gold cluster protected by triphosphine ligands: DFT study. <i>Structural Chemistry</i> , 2019, 30, 501-507.	1.0	8
16	Regularities of the retention of aminopyridines by silica gel modified with gold nanoparticles. <i>Russian Journal of Physical Chemistry A</i> , 2012, 86, 1623-1629.	0.1	7
17	Supported Gold Nanoparticles as Catalysts in Peroxidative and Aerobic Oxidation of 1-Phenylethanol under Mild Conditions. <i>Nanomaterials</i> , 2020, 10, 151.	1.9	7
18	Quantum-chemical study of the effect of oxygen on the formation of active sites of silver clusters during the selective adsorption of hydrocarbons. <i>Russian Journal of Physical Chemistry A</i> , 2013, 87, 1520-1526.	0.1	5

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19	Quantum chemical simulation of the reaction of methane with gold(I) acetylacetonate and aquaacetylacetonate complexes. <i>Kinetics and Catalysis</i> , 2007, 48, 305-315.	0.3	4
20	Studying the adsorption and activation of benzene and chlorobenzene on Ni(12%)/Al ₂ O ₃ by means of gas chromatography and quantum chemistry. <i>Russian Journal of Physical Chemistry A</i> , 2012, 86, 1892-1897.	0.1	4
21	Role of deposition technique and support nature on the catalytic activity of supported gold clusters: experimental and theoretical study. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 297-300.	1.5	3
22	Quantum-chemical simulation of the allyl isomerization of allylbenzene in the presence of gold atom. <i>Russian Journal of Physical Chemistry A</i> , 2011, 85, 646-653.	0.1	3
23	Simulation of CO Oxidation in the Presence of Cyclic Gold Thiolate Complexes: The Effect of a Ligand. <i>Kinetics and Catalysis</i> , 2019, 60, 606-611.	0.3	3
24	Quantum chemical study of the charged gold atom influence on the mechanism of allylbenzene double bond migration. <i>Russian Chemical Bulletin</i> , 2011, 60, 1545-1555.	0.4	2
25	Adsorption of carbon oxide on tetrahedral bimetallic gold-copper clusters. <i>Russian Journal of Physical Chemistry A</i> , 2016, 90, 2402-2407.	0.1	2
26	Quantum chemical assessment of the ligand effect on the properties and structure of protected gold clusters. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 1507-1512.	0.1	2
27	Quantum chemical simulation of propylene oxidation on Ag ₂₀ . <i>Kinetics and Catalysis</i> , 2016, 57, 184-190.	0.3	1
28	Quantum-chemical study of the effect of ligands on the structure and properties of gold clusters. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 346-350.	0.1	1
29	Effect of the Metal Deposition Order on Structural, Electronic and Catalytic Properties of TiO ₂ -Supported Bimetallic Au-Ag Catalysts in 1-Octanol Selective Oxidation. <i>Catalysts</i> , 2021, 11, 799.	1.6	1
30	Gold(III) reduction in a tris-HCl buffer: Effect of riboflavin, rutin, 1,1-dipyridyl, and 1-naphthol. <i>Russian Journal of Electrochemistry</i> , 2007, 43, 92-104.	0.3	0
31	Potential surface topology of a butene-gold atom system in the ground state. <i>Russian Chemical Bulletin</i> , 2008, 57, 1356-1363.	0.4	0
32	Effect of Cobalt on the Catalytic Properties of Platinum during the Oxidation of CO: Experimental Data and Quantum-Chemical Simulation. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 1957-1964.	0.1	0