

Sergey M Kozlov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

2,871
citations

30
h-index

53
g-index

61
ext. papers

3,507
ext. citations

10.1
avg, IF

5.2
L-index

#	Paper	IF	Citations
59	Atomic Pd-promoted ZnZrO solid solution catalyst for CO ₂ hydrogenation to methanol. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 120994	21.8	7
58	Revamping SiO ₂ Spheres by CoreShell Porosity Endowment to Construct a Mazelike Nanoreactor for Enhanced Catalysis in CO ₂ Hydrogenation to Methanol (Adv. Funct. Mater. 47/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170345	15.6	1
57	[Ag(1,2-BDT)]: How Square-Pyramidal Building Blocks Self-Assemble into the Smallest Silver Nanocluster. <i>Inorganic Chemistry</i> , 2021 , 60, 4306-4312	5.1	3
56	Stereoisomerization during Molecular Packing. <i>Advanced Materials</i> , 2021 , 33, e2100986	24	3
55	Revamping SiO ₂ Spheres by CoreShell Porosity Endowment to Construct a Mazelike Nanoreactor for Enhanced Catalysis in CO ₂ Hydrogenation to Methanol. <i>Advanced Functional Materials</i> , 2021 , 31, 2102896	15.6	2
54	Synthesis of Mesoporous Copper Aluminosilicate Hollow Spheres for Oxidation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23060-23075	9.5	7
53	High-valence metals improve oxygen evolution reaction performance by modulating 3d metal oxidation cycle energetics. <i>Nature Catalysis</i> , 2020 , 3, 985-992	36.5	149
52	Methane dry reforming on supported cobalt nanoparticles promoted by boron. <i>Journal of Catalysis</i> , 2020 , 392, 126-134	7.3	11
51	Role of Oxidized Mo Species on the Active Surface of NiMo Electrocatalysts for Hydrogen Evolution under Alkaline Conditions. <i>ACS Catalysis</i> , 2020 , 10, 12858-12866	13.1	24
50	Solution processable metal-organic frameworks for mixed matrix membranes using porous liquids. <i>Nature Materials</i> , 2020 , 19, 1346-1353	27	78
49	Electrochemical Conversion of CO ₂ to 2-Bromoethanol in a Membraneless Cell. <i>ACS Energy Letters</i> , 2019 , 4, 600-605	20.1	6
48	Turning a Methanation Co Catalyst into an InCo Methanol Producer. <i>ACS Catalysis</i> , 2019 , 9, 6910-6918	13.1	54
47	Tandem Conversion of CO ₂ to Valuable Hydrocarbons in Highly Concentrated Potassium Iron Catalysts. <i>ChemCatChem</i> , 2019 , 11, 2879-2886	5.2	37
46	Quantum-Dot-Derived Catalysts for CO ₂ Reduction Reaction. <i>Joule</i> , 2019 , 3, 1703-1718	27.8	78
45	Roughening of Copper (100) at Elevated CO Pressure: Cu Adatom and Cluster Formation Enable CO Dissociation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8112-8121	3.8	15
44	Tailoring the Crystal Structure of Nanoclusters Unveiled High Photoluminescence via Ion Pairing. <i>Chemistry of Materials</i> , 2018 , 30, 2719-2725	9.6	60
43	Constructing Bridges between Computational Tools in Heterogeneous and Homogeneous Catalysis. <i>ACS Catalysis</i> , 2018 , 8, 5637-5656	13.1	42

42	Efficient electrochemical transformation of CO to C/C chemicals on benzimidazole-functionalized copper surfaces. <i>Chemical Communications</i> , 2018 , 54, 11324-11327	5.8	27
41	The role of metal/oxide interfaces for long-range metal particle activation during CO oxidation. <i>Nature Materials</i> , 2018 , 17, 519-522	27	89
40	Surface composition changes of CuNi-ZrO ₂ during methane decomposition: An operando NAP-XPS and density functional study. <i>Catalysis Today</i> , 2017 , 283, 134-143	5.3	40
39	Versatile Optimization of Chemical Ordering in Bimetallic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10803-10808	3.8	26
38	Doping-Induced Anisotropic Self-Assembly of Silver Icosahedra in [PtAgCl(PPh)] Nanoclusters. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1053-1056	16.4	67
37	In-operando elucidation of bimetallic CoNi nanoparticles during high-temperature CH ₄ /CO ₂ reaction. <i>Applied Catalysis B: Environmental</i> , 2017 , 213, 177-189	21.8	60
36	Direct versus ligand-exchange synthesis of [PtAg(BDT)(TPP)] nanoclusters: effect of a single-atom dopant on the optoelectronic and chemical properties. <i>Nanoscale</i> , 2017 , 9, 9529-9536	7.7	47
35	Approaching complexity of alkyl hydrogenation on Pd via density-functional modelling. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 21514-21521	3.6	2
34	Atomic Ordering and Sn Segregation in Pt ₃ Sn Nanoalloys Supported on CeO ₂ Thin Films. <i>Topics in Catalysis</i> , 2017 , 60, 522-532	2.3	10
33	Effects of electron transfer in model catalysts composed of Pt nanoparticles on CeO ₂ (1 1 1) surface. <i>Journal of Catalysis</i> , 2016 , 344, 507-514	7.3	33
32	Surface composition of magnetron sputtered Pt-Co thin film catalyst for proton exchange membrane fuel cells. <i>Applied Surface Science</i> , 2016 , 365, 245-251	6.7	27
31	Counting electrons on supported nanoparticles. <i>Nature Materials</i> , 2016 , 15, 284-8	27	325
30	Insights from methane decomposition on nanostructured palladium. <i>Journal of Catalysis</i> , 2016 , 337, 111-121	7.3	29
29	Steering the formation of supported Pt ₃ Sn nanoalloys by reactive metal-oxide interaction. <i>RSC Advances</i> , 2016 , 6, 85688-85697	3.7	5
28	Stabilization of Small Platinum Nanoparticles on Pt ₃ Sn/CeO ₂ Thin Film Electrocatalysts During Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19723-19736	3.8	42
27	Revealing chemical ordering in Pt-Co nanoparticles using electronic structure calculations and X-ray photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28298-310	3.6	19
26	Electronic-structure-based material descriptors: (in)dependence on self-interaction and Hartree-Fock exchange. <i>Chemical Communications</i> , 2015 , 51, 5602-5	5.8	17
25	How to determine accurate chemical ordering in several nanometer large bimetallic crystallites from electronic structure calculations. <i>Chemical Science</i> , 2015 , 6, 3868-3880	9.4	58

24	Energetic Stability of Absorbed H in Pd and Pt Nanoparticles in a More Realistic Environment. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5180-5186	3.8	21
23	Reduced ceria nanofilms from structure prediction. <i>Nanoscale</i> , 2015 , 7, 4361-6	7.7	15
22	Oxygen vacancies in self-assemblies of ceria nanoparticles. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18329-18338	13	26
21	O vacancies on steps on the CeO ₂ (111) surface. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 7823-9	3.6	28
20	How absorbed hydrogen affects the catalytic activity of transition metals. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13371-5	16.4	63
19	Adsorbed and Subsurface Absorbed Hydrogen Atoms on Bare and MgO(100)-Supported Pd and Pt Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15242-15250	3.8	28
18	Bulk Properties of Transition Metals: A Challenge for the Design of Universal Density Functionals. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3832-9	6.4	187
17	How Absorbed Hydrogen Affects the Catalytic Activity of Transition Metals. <i>Angewandte Chemie</i> , 2014 , 126, 13589-13593	3.6	9
16	Catalysis from First Principles: Towards Accounting for the Effects of Nanostructuring. <i>Topics in Catalysis</i> , 2013 , 56, 867-873	2.3	22
15	Theoretical assessment of graphene-metal contacts. <i>Journal of Chemical Physics</i> , 2013 , 138, 244701	3.9	53
14	Effect of MgO(100) support on structure and properties of Pd and Pt nanoparticles with 49-155 atoms. <i>Journal of Chemical Physics</i> , 2013 , 139, 084701	3.9	35
13	Establishing the Accuracy of Broadly Used Density Functionals in Describing Bulk Properties of Transition Metals. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1631-40	6.4	153
12	From Static to Reacting Systems on Transition-Metal Surfaces 2013 , 475-503		2
11	Growth and electronic structure of nitrogen-doped graphene on Ni(111). <i>Physical Review B</i> , 2012 , 86,	3.3	73
10	Bonding Mechanisms of Graphene on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7360-7368	3.6	121
9	Water Chemistry on Model Ceria and Pt/Ceria Catalysts. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12103-12113	3.8	133
8	Formation of one-dimensional electronic states along the step edges of CeO ₂ (111). <i>ACS Nano</i> , 2012 , 6, 1126-33	16.7	55
7	Absolute Surface Step Energies: Accurate Theoretical Methods Applied to Ceria Nanoislands. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1956-1961	6.4	35

6	Geometric Arrangement of Components in Bimetallic PdZn/Pd(111) Surfaces Modified by CO Adsorption: A Combined Study by Density Functional Calculations, Polarization-Modulated Infrared Reflection Absorption Spectroscopy, and Temperature-Programmed Desorption. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18768-18778	3.8	37
5	On the interaction of polycyclic aromatic compounds with graphene. <i>Carbon</i> , 2012 , 50, 2482-2492	10.4	61
4	Graphene on Ni(111): Coexistence of Different Surface Structures. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 759-764	6.4	139
3	Bandgap engineering of graphene by physisorbed adsorbates. <i>Advanced Materials</i> , 2011 , 23, 2638-43	24	75
2	Bonding and vibrations of CH _x O and CH _x species (x=1B) on a palladium nanoparticle representing model catalysts. <i>Chemical Physics Letters</i> , 2011 , 506, 92-97	2.5	14
1	Theoretical study of carbon species on Pd(111): competition between migration of C atoms to the subsurface interlayer and formation of C _n clusters on the surface. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10955-63	3.6	25