

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.

57 papers	3,378 citations	25 h-index	58 g-index
60 ext. papers	3,694 ext. citations	7.7 avg, IF	4.82 L-index

#	Paper	IF	Citations
57	Na ₂ O ₂ Battery 2022 , 153-199		
56	Plasmon-enhanced Catalytic Ozonation for Efficient Removal of Recalcitrant Water Pollutants. <i>ACS ES&T Engineering</i> , 2021 , 1, 874-883		4
55	Preparation and cutting performance of nano-scaled Al ₂ O ₃ -coated micro-textured cutting tool prepared by atomic layer deposition. <i>High Temperature Materials and Processes</i> , 2021 , 40, 77-86	0.9	3
54	Ultrasonic atomization of titanium isopropoxide at room temperature for TiO ₂ atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 062405	2.9	2
53	Synergetic effect on catalytic activity and charge transfer in Pt-Pd bimetallic model catalysts prepared by atomic layer deposition. <i>Journal of Chemical Physics</i> , 2020 , 152, 024710	3.9	5
52	Gold Catalysts Synthesized Using a Modified Incipient Wetness Impregnation Method for Propylene Epoxidation. <i>ChemCatChem</i> , 2020 , 12, 5993-5999	5.2	0
51	Quantification of rhenium oxide dispersion on zeolite: Effect of zeolite acidity and mesoporosity. <i>Journal of Catalysis</i> , 2019 , 372, 128-141	7.3	10
50	Structure and reactivity of single site Ti catalysts for propylene epoxidation. <i>Journal of Catalysis</i> , 2019 , 377, 419-428	7.3	22
49	Oxidation-Induced Atom Diffusion and Surface Restructuring in Faceted Ternary Pt ₂ CuNi Nanoparticles. <i>Chemistry of Materials</i> , 2019 , 31, 1720-1728	9.6	21
48	Mesopore differences between pillared lamellar MFI and MWW zeolites probed by atomic layer deposition of titania and consequences on photocatalysis. <i>Microporous and Mesoporous Materials</i> , 2019 , 276, 260-269	5.3	10
47	Tailoring nanopore formation in atomic layer deposited ultrathin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 01A103	2.9	10
46	High-Capacity Sodium Peroxide Based Na ₂ O ₂ Batteries with Low Charge Overpotential via a Nanostructured Catalytic Cathode. <i>ACS Energy Letters</i> , 2018 , 3, 276-277	20.1	11
45	Effects of TiO ₂ in Low Temperature Propylene Epoxidation Using Gold Catalysts. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1688-1698	3.8	32
44	Atomic layer deposition of molybdenum disulfide films using MoF ₆ and H ₂ S. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 01A125	2.9	19
43	Mechanistic insights into the direct propylene epoxidation using Au nanoparticles dispersed on TiO ₂ /SiO ₂ . <i>Chemical Engineering Science</i> , 2018 , 191, 169-182	4.4	16
42	Theoretical Studies on the Direct Propylene Epoxidation Using Gold-Based Catalysts: A Mini-Review. <i>Catalysts</i> , 2018 , 8, 421	4	12
41	Enhancement of Copper Catalyst Stability for Catalytic Ozonation in Water Treatment Using ALD Overcoating. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43323-43326	9.5	8

40	Methoxylation of dihydromyrcene in an intensified fixed bed reactor. <i>Chemical Engineering Research and Design</i> , 2017 , 122, 254-262	5.5	5
39	Catalytic consequences of cation and anion substitutions on rate and mechanism of oxidative coupling of methane over hydroxyapatite catalysts. <i>Fuel</i> , 2017 , 191, 472-485	7.1	9
38	Increased selectivity for allylic oxidation of cyclohexene using TiO ₂ modified V ₂ O ₅ /MoO ₃ catalysts. <i>Catalysis Communications</i> , 2017 , 99, 43-48	3.2	9
37	Dense graphene monolith oxygen cathodes for ultrahigh volumetric energy densities. <i>Energy Storage Materials</i> , 2017 , 9, 134-139	19.4	17
36	Metallic ion leaching from heterogeneous catalysts: an overlooked effect in the study of catalytic ozonation processes. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 1143-1151	4.2	17
35	Analysis of the propylene epoxidation mechanism on supported gold nanoparticles. <i>Chemical Engineering Science</i> , 2017 , 174, 229-237	4.4	12
34	Tuning external surface of unit-cell thick pillared MFI and MWW zeolites by atomic layer deposition and its consequences on acid-catalyzed reactions. <i>Journal of Catalysis</i> , 2016 , 337, 177-187	7.3	37
33	Influences of cation and anion substitutions on oxidative coupling of methane over hydroxyapatite catalysts. <i>Fuel</i> , 2016 , 167, 208-217	7.1	28
32	Modeling the atomistic growth behavior of gold nanoparticles in solution. <i>Nanoscale</i> , 2016 , 8, 9354-65	7.7	17
31	Combining Electronic and Geometric Effects of ZnO-Promoted Pt Nanocatalysts for Aqueous Phase Reforming of 1-Propanol. <i>ACS Catalysis</i> , 2016 , 6, 3457-3460	13.1	37
30	Design and synthesis of model and practical palladium catalysts using atomic layer deposition. <i>Catalysis Science and Technology</i> , 2016 , 6, 6845-6852	5.5	8
29	Atomic Layer Deposition for Lithium-Based Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600564	4.6	59
28	Towards ALD thin film stabilized single-atom Pd ₁ catalysts. <i>Nanoscale</i> , 2016 , 8, 15348-56	7.7	70
27	Pd nanoparticles on ZnO-passivated porous carbon by atomic layer deposition: an effective electrochemical catalyst for Li-O ₂ battery. <i>Nanotechnology</i> , 2015 , 26, 164003	3.4	23
26	Synthesis of palladium nanoparticles on TiO ₂ (110) using a beta-diketonate precursor. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6470-7	3.6	7
25	Toward atomically-precise synthesis of supported bimetallic nanoparticles using atomic layer deposition. <i>Nature Communications</i> , 2014 , 5, 3264	17.4	156
24	Effects of Chlorine in Titanium Oxide on Palladium Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22611-22619	3.8	21
23	In situ diffraction of highly dispersed supported platinum nanoparticles. <i>Catalysis Science and Technology</i> , 2014 , 4, 3053-3063	5.5	34

22	Enhancing the stability of copper chromite catalysts for the selective hydrogenation of furfural using ALD overcoating. <i>Journal of Catalysis</i> , 2014 , 317, 284-292	7.3	52
21	Palladium nanoparticle formation on TiO ₂ (110) by thermal decomposition of palladium(II) hexafluoroacetylacetonate. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14702-11	9.5	37
20	Adsorbate-induced structural changes in 1-3 nm platinum nanoparticles. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9320-6	16.4	59
19	Effectively suppressing dissolution of manganese from spinel lithium manganate via a nanoscale surface-doping approach. <i>Nature Communications</i> , 2014 , 5, 5693	17.4	202
18	A nanostructured cathode architecture for low charge overpotential in lithium-oxygen batteries. <i>Nature Communications</i> , 2013 , 4, 2383	17.4	355
17	Synthesis of porous carbon supported palladium nanoparticle catalysts by atomic layer deposition: application for rechargeable lithium-O ₂ battery. <i>Nano Letters</i> , 2013 , 13, 4182-9	11.5	170
16	Nucleation behavior of supported Rh nanoparticles fabricated from Rh(CO) ₂ (acac) on Al ₂ O ₃ /Ni ₃ Al(111). <i>Chemical Physics Letters</i> , 2013 , 555, 7-11	2.5	7
15	Resolving Precursor Deligation, Surface Species Evolution, and Nanoparticle Nucleation during Palladium Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11141-11148	3.8	27
14	Structural and Electrochemical Study of Al ₂ O ₃ and TiO ₂ Coated Li _{1.2} Ni _{0.13} Mn _{0.54} Co _{0.13} O ₂ Cathode Material Using ALD. <i>Advanced Energy Materials</i> , 2013 , 3, 1299-1307	21.8	342
13	Understanding the Chemistry of H ₂ Production for 1-Propanol Reforming: Pathway and Support Modification Effects. <i>ACS Catalysis</i> , 2012 , 2, 2316-2326	13.1	24
12	Porous Alumina Protective Coatings on Palladium Nanoparticles by Self-Poisoned Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2012 , 24, 2047-2055	9.6	100
11	Au ₂₅ nanocluster-catalyzed Ullmann-type homocoupling reaction of aryl iodides. <i>Chemical Communications</i> , 2012 , 48, 12005-7	5.8	80
10	Synthesis of Pt@Pd Core/Shell Nanostructures by Atomic Layer Deposition: Application in Propane Oxidative Dehydrogenation to Propylene. <i>Chemistry of Materials</i> , 2012 , 24, 3525-3533	9.6	96
9	CO+NO versus CO+O ₂ Reaction on Monolayer FeO(111) Films on Pt(111). <i>ChemCatChem</i> , 2011 , 3, 671-674	5.4	29
8	Effect of Particle Size and Adsorbates on the L ₃ , L ₂ and L ₁ X-ray Absorption Near Edge Structure of Supported Pt Nanoparticles. <i>Topics in Catalysis</i> , 2011 , 54, 334-348	2.3	90
7	Size-dependent selectivity and activity of silver nanoclusters in the partial oxidation of propylene to propylene oxide and acrolein: A joint experimental and theoretical study. <i>Catalysis Today</i> , 2011 , 160, 116-130	5.3	102
6	Preparation and characterization of iron-tungstate thin films. <i>Surface Science</i> , 2011 , 605, 1550-1555	1.8	25
5	Formation of Ruthenium Nanoparticles on Al ₂ O ₃ /Ni ₃ Al(111) from an Organometallic Precursor. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17062-17068	3.8	5

4	Adsorption and reaction of Rh(CO) ₂ (acac) on Al ₂ O ₃ /Ni ₃ Al(111). <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1264-70	3.6	17
3	CO Adsorption on Monometallic and Bimetallic AuPd Nanoparticles Supported on Oxide Thin Films <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17099-17104	3.8	70
2	Increased silver activity for direct propylene epoxidation via subnanometer size effects. <i>Science</i> , 2010 , 328, 224-8	33.3	665
1	Relating methanol oxidation to the structure of ceria-supported vanadia monolayer catalysts. <i>Journal of Catalysis</i> , 2010 , 272, 82-91	7.3	67