Vladimir Matolin

List of Publications by Year
in descending order

361	10,191	48	83
papers	citations	h-index	g-index
		43973	56606

368	368	368	9870
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Support nanostructure boosts oxygen transfer to catalytically active platinum nanoparticles. Nature Materials, 2011, 10, 310-315.	13.3	748
2	Counting electrons on supported nanoparticles. Nature Materials, 2016, 15, 284-288.	13.3	469
3	Creating single-atom Pt-ceria catalysts by surface step decoration. Nature Communications, 2016, 7, 10801.	5.8	388
4	Maximum Nobleâ€Metal Efficiency in Catalytic Materials: Atomically Dispersed Surface Platinum. Angewandte Chemie - International Edition, 2014, 53, 10525-10530.	7.2	384
5	In Situ and Theoretical Studies for the Dissociation of Water on an Active Ni/CeO₂ Catalyst: Importance of Strong Metalâ€“Support Interactions for the Cleavage of Oâ€“H Bonds. Angewandte Chemie - International Edition, 2015, 54, 3917-3921.	7.2	205
6	Direct Conversion of Methane to Methanol on Ni-Ceria Surfaces: Metalâ€“Support Interactions and Water-Enabled Catalytic Conversion by Site Blocking. Journal of the American Chemical Society, 2018, 140, 7681-7687.	6.6	141
7	Inâ€…Situ Investigation of Methane Dry Reforming on Metal/Ceria(111) Surfaces: Metalâ€“Support Interactions and Câˆ’H Bond Activation at Low Temperature. Angewandte Chemie - International Edition, 2017, 56, 13041-13046.	7.2	120
8	Ceria reoxidation by CO2: A model study. Journal of Catalysis, 2010, 275, 181-185.	3.1	115
9	Cerium oxide stoichiometry alteration via Sn deposition: Influence of temperature. Journal of Electron Spectroscopy and Related Phenomena, 2009, 169, 20-25.	0.8	111
10	Water Chemistry on Model Ceria and Pt/Ceria Catalysts. Journal of Physical Chemistry C, 2012, 116, 12103-12113.	1.5	108
11	The influence of particle size on CO adsorption on Pd/alumina model catalysts. Surface Science, 1994, 313, 99-106.	0.8	105
12	Epitaxial Cubic Ce₂O₃ Films via Ceâ€“CeO₂ Interfacial Reaction. Journal of Physical Chemistry Letters, 2013, 4, 866-871.	2.1	99
13	Atomically Dispersed Pd, Ni, and Pt Species in Ceria-Based Catalysts: Principal Differences in Stability and Reactivity. Journal of Physical Chemistry C, 2016, 120, 9852-9862.	1.5	99
14	Electrifying model catalysts for understanding electrocatalytic reactions in liquid electrolytes. Nature Materials, 2018, 17, 592-598.	13.3	89
15	Adsorption sites, metal-support interactions, and oxygen spillover identified by vibrational spectroscopy of adsorbed CO: A model study on Pt/ceria catalysts. Journal of Catalysis, 2012, 289, 118-126.	3.1	88
16	Epitaxial growth of continuous CeO2(111) ultra-thin films on Cu(111). Thin Solid Films, 2008, 516, 6120-6124.	0.8	85
17	Water interaction with CeO2(1 1 1)/Cu(1 1 1) model catalyst surface. Catalysis Today, 2012, 181, 124-132.	2.2	85
18	Methanol decomposition on Pd(111) single crystal surfaces. Surface Science, 1990, 238, L457-L462.	0.8	84

#	ARTICLE	IF	CITATIONS
19	Platinum-Doped CeO₂Thin Film Catalysts Prepared by Magnetron Sputtering. Langmuir, 2010, 26, 12824-12831.	1.6	84
20	Oxide-based nanomaterials for fuel cell catalysis: the interplay between supported single Pt atoms and particles. Catalysis Science and Technology, 2017, 7, 4315-4345.	2.1	84
21	Thermodynamic, electronic and structural properties of Cu/CeO $_2$2 surfaces and interfaces from first-principles DFT+U calculations. Journal of Chemical Physics, 2010, 133, 234705.	1.2	83
22	Ordered Phases of Reduced Ceria As Epitaxial Films on Cu(111). Journal of Physical Chemistry C, 2014, 118, 357-365.	1.5	83
23	Ambient pressure XPS and IRRAS investigation of ethanol steam reforming on Niâ€"CeO₂(111) catalysts: an in situ study of Câ€"C and Oâ€"H bond scission. Physical Chemistry Chemical Physics, 2016, 18, 16621-16628.	1.3	83
24	Adjusting Morphology and Surface Reduction of CeO2(111) Thin Films on Cu(111). Journal of Physical Chemistry C, 2011, 115, 7496-7503.	1.5	82
25	Unraveling the surface state and composition of highly selective nanocrystalline Niâ€"Cu alloy catalysts for hydrodeoxygenation of HMF. Catalysis Science and Technology, 2017, 7, 1735-1743.	2.1	82
26	The effect of sulfur dioxide on the activity of hierarchical Pd-based catalysts in methane combustion. Applied Catalysis B: Environmental, 2017, 202, 72-83.	10.8	80
27	Methanol adsorption on a CeO2(1 1 1)/Cu(1 1 1) thin film model catalyst. Surface Science, 2009, 603, 1087-1092.	0.8	79
28	Activity of oxygen reduction reaction on small amount of amorphous CeO promoted Pt cathode for fuel cell application. Electrochimica Acta, 2011, 56, 3874-3883.	2.6	75
29	A resonant photoelectron spectroscopy study of Sn(O_{<i>x</i>}) doped CeO₂ catalysts. Surface and Interface Analysis, 2008, 40, 225-230.	0.8	74
30	<i>In Situ</i> Imaging of Cu₂O under Reducing Conditions: Formation of Metallic Fronts by Mass Transfer. Journal of the American Chemical Society, 2013, 135, 16781-16784.	6.6	74
31	In Situ DRIFTS and NAP-XPS Exploration of the Complexity of CO₂ Hydrogenation over Size-Controlled Pt Nanoparticles Supported on Mesoporous NiO. Journal of Physical Chemistry C, 2018, 122, 5553-5565.	1.5	72
32	Defect-induced dissociation of CO on palladium. Surface Science, 1991, 245, 233-243.	0.8	68
33	A route to continuous ultra-thin cerium oxide films on Cu(1 1 1). Surface Science, 2009, 603, 3382-3388.	0.8	67
34	The influence of particle size on CO oxidation on Pd/alumina model catalyst. Surface Science, 1995, 331-333, 173-177.	0.8	65
35	Growth of ultra-thin cerium oxide layers on Cu(1 1 1). Applied Surface Science, 2007, 254, 153-155.	3.1	64
36	CO disproportionation over supported Pd particles: a TPD and static SIMS study. Surface Science, 1990, 238, 75-82.	0.8	62

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37	Chemisorptional behaviour of Pd small supported particles depending on size and structure: TDS, SSIMS and TEM investigation. Surface Science, 1985, 152-153, 603-614.	0.8	61
38	Acceptor-like behavior of reducing gases on the surface of n-type In2O3. Applied Surface Science, 2004, 227, 122-131.	3.1	61
39	Reactivity of atomically dispersed Pt²⁺ species towards H₂: model Ptâ€“CeO₂ fuel cell catalyst. Physical Chemistry Chemical Physics, 2016, 18, 7672-7679.	1.3	61
40	Palladium interaction with CeO₂, Snâ€“Ceâ€“O and Gaâ€“Ceâ€“O layers. Journal of Physics Condensed Matter, 2009, 21, 055005.	0.7	60
41	Interaction of Au with CeO2(111): A photoemission study. Journal of Chemical Physics, 2009, 130, 034703.	1.2	60
42	A resonant photoemission applied to cerium oxide based nanocrystals. Nanotechnology, 2009, 20, 215706.	1.3	58
43	Electronic Structure of Magnesiaâ˜'Ceria Model Catalysts, CO₂Adsorption, and CO₂Activation: A Synchrotron Radiation Photoelectron Spectroscopy Study. Journal of Physical Chemistry C, 2011, 115, 8716-8724.	1.5	57
44	Core and Valence Band Photoemission Spectroscopy of Well-Ordered Ultrathin TiOxFilms on Pt(111). Journal of Physical Chemistry C, 2007, 111, 869-876.	1.5	56
45	Adsorption of Histidine and Histidine-Containing Peptides on Au(111). Langmuir, 2010, 26, 8606-8613.	1.6	54
46	Ptâ€“CeO thin film catalysts for PEMFC. Catalysis Today, 2015, 240, 236-241.	2.2	52
47	High efficiency of Pt2+- CeO2 novel thin film catalyst as anode for proton exchange membrane fuel cells. Applied Catalysis B: Environmental, 2016, 197, 262-270.	10.8	52
48	Bulk Hydroxylation and Effective Water Splitting by Highly Reduced Cerium Oxide: The Role of O Vacancy Coordination. ACS Catalysis, 2018, 8, 4354-4363.	5.5	52
49	Investigation of gas sensing mechanism of SnO2 based chemiresistor using near ambient pressure XPS. Surface Science, 2018, 677, 284-290.	0.8	51
50	Optimization of ionomer-free ultra-low loading Pt catalyst for anode/cathode of PEMFC via magnetron sputtering. International Journal of Hydrogen Energy, 2019, 44, 19344-19356.	3.8	51
51	Stabilization of Small Platinum Nanoparticles on Ptâ€“CeO₂Thin Film Electrocatalysts During Methanol Oxidation. Journal of Physical Chemistry C, 2016, 120, 19723-19736.	1.5	50
52	Atomic species identification at the (101) anatase surface by simultaneous scanning tunnelling and atomic force microscopy. Nature Communications, 2015, 6, 7265.	5.8	49
53	Proton exchange membrane fuel cell made of magnetron sputtered Ptâ€“CeO and Ptâ€“Co thin film catalysts. Journal of Power Sources, 2015, 273, 105-109.	4.0	47
54	The surface diffusion in CO oxidation on small supported Pd particles: Experimental evidence. Surface Science, 1986, 166, L115-L118.	0.8	46

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55	Study of CO desorption and dissociation on Rh surfaces. Surface Science, 1995, 331-333, 105-109.	0.8	45
56	Hydrogen spillover monitored by resonant photoemission spectroscopy. Journal of Catalysis, 2012, 285, 6-9.	3.1	45
57	A photoemission study of the interaction of Ga with CeO2(111) thin films. Applied Surface Science, 2008, 254, 6860-6864.	3.1	44
58	Structure-Dependent Dissociation of Water on Cobalt Oxide. Journal of Physical Chemistry Letters, 2018, 9, 2763-2769.	2.1	44
59	Sn interaction with the CeO2(111) system: Bimetallic bonding and ceria reduction. Applied Surface Science, 2008, 254, 4375-4379.	3.1	42
60	Spectroscopic Understanding of SnO2 and WO3 Metal Oxide Surfaces with Advanced Synchrotron Based; XPS-UPS and Near Ambient Pressure (NAP) XPS Surface Sensitive Techniques for Gas Sensor Applications under Operational Conditions. Sensors, 2019, 19, 4737.	2.1	42
61	Methanol decomposition on oxygen precovered and atomically clean Pd(111) single crystal surfaces. Surface Science, 1991, 251-252, 1117-1122.	0.8	40
62	Influence of substrate structure on activity of alumina supported Pd particles: CO adsorption and oxidation. Surface Science, 1996, 365, 69-77.	0.8	40
63	Photoemission Spectroscopy Study of Cu/CeO₂ Systems:â€‰ Cu/CeO₂ Nanosized Catalyst and CeO₂(111)/Cu(111) Inverse Model Catalyst. Journal of Physical Chemistry C, 2008, 112, 3751-3758.	1.5	40
64	Distinct Physicochemical Properties of the First Ceria Monolayer on Cu(111). Journal of Physical Chemistry C, 2012, 116, 6677-6684.	1.5	40
65	Quantitative Analysis of the Oxidation State of Cobalt Oxides by Resonant Photoemission Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 6129-6136.	2.1	39
66	The Electronic Structure and Adsorption Geometry of <scp>l</scp>-Histidine on Cu(110). Journal of Physical Chemistry B, 2008, 112, 13655-13660.	1.2	38
67	Ionomer content effect on charge and gas transport in the cathode catalyst layer of proton-exchange membrane fuel cells. Journal of Power Sources, 2021, 490, 229531.	4.0	38
68	Size effect study of carbon monoxide oxidation by Rh surfaces. Surface Science, 1996, 352-354, 305-309.	0.8	37
69	Copper-ceria interaction: A combined photoemission and DFT study. Applied Surface Science, 2013, 267, 12-16.	3.1	37
70	Mechanistic Insights of Ethanol Steam Reforming over Niâ€“CeO_{<i>x</i>}(111): The Importance of Hydroxyl Groups for Suppressing Coke Formation. Journal of Physical Chemistry C, 2015, 119, 18248-18256.	1.5	37
71	Adsorption of CO on Small Supported Rhodium Particles: SSIMS and TPD Study. Journal of Catalysis, 1993, 143, 492-498.	3.1	36
72	Functionalization of Oxide Surfaces through Reaction with 1,3-Dialkylimidazolium Ionic Liquids. Journal of Physical Chemistry Letters, 2013, 4, 30-35.	2.1	36

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73	Magnetron sputtered Ir thin film on TiC-based support sublayer as low-loading anode catalyst for proton exchange membrane water electrolysis. International Journal of Hydrogen Energy, 2016, 41, 15124-15132.	3.8	36
74	Mechanism of non-evaporable getter activation XPS and static SIMS study of Zr44V56 alloy. Vacuum, 2003, 71, 317-322.	1.6	35
75	Miniature electron bombardment evaporation source: evaporation rate measurement. European Physical Journal D, 1997, 47, 261-268.	0.4	34
76	Methanol Adsorption and Decomposition on Pt/CeO₂(111)/Cu(111) Thin Film Model Catalyst. Langmuir, 2010, 26, 13333-13341.	1.6	34
77	Crystallographic structure and chemisorption activity of palladium/mica model catalysts III. Static secondary ion mass spectrometry study of CO chemisorption on small palladium particles. Journal of Catalysis, 1986, 97, 448-455.	3.1	33
78	Snâ€“CeO2 thin films prepared by rf magnetron sputtering: XPS and SIMS study. Applied Surface Science, 2009, 255, 6656-6660.	3.1	33
79	Adsorption and Decomposition of Formic Acid on Model Ceria and Pt/Ceria Catalysts. Journal of Physical Chemistry C, 2013, 117, 12483-12494.	1.5	33
80	Structural and electronic properties of manganese-doped Bi₂Te₃epitaxial layers. New Journal of Physics, 2015, 17, 013028.	1.2	33
81	Surface composition of magnetron sputtered Pt-Co thin film catalyst for proton exchange membrane fuel cells. Applied Surface Science, 2016, 365, 245-251.	3.1	33
82	Roomâ€Temperature Atomicâ€Layerâ€Deposited Al₂O₃ Improves the Efficiency of Perovskite Solar Cells over Time. ChemSusChem, 2018, 11, 3640-3648.	3.6	33
83	Effect of ZnO on acidâ€“base properties and catalytic performances of ZnO/ZrO₂â€“SiO₂ catalysts in 1,3-butadiene production from ethanolâ€“water mixture. Catalysis Science and Technology, 2019, 9, 3964-3978.	2.1	33
84	CO oxidation over small Pd particle model catalysts. A static secondary ion mass spectrometry study. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 2749.	1.7	32
85	Au⁺and Au³⁺ions in CeO₂rf-sputtered thin films. Journal Physics D: Applied Physics, 2009, 42, 115301.	1.3	32
86	Formation of aluminaâ€“ceria mixed oxide in model systems. Applied Surface Science, 2011, 257, 3682-3687.	3.1	32
87	In situ probing of magnetron sputtered Pt-Ni alloy fuel cell catalysts during accelerated durability test using EC-AFM. Electrochimica Acta, 2017, 245, 760-769.	2.6	32
88	Steady carbon formation during CO oxidation over small Pd particles: A static SIMS study. Surface Science, 1987, 186, L541-L547.	0.8	31
89	Nitridation of GaAs(1 0 0) substrates and Ga/GaAs systems studied by XPS spectroscopy. Applied Surface Science, 2003, 212-213, 614-618.	3.1	31
90	Bonding at the organic/metal interface: Adenine to Cu(110). Physical Review B, 2009, 79, .	1.1	31

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91	Magnetron sputtered thin-film vertically segmented Pt-Ir catalyst supported on TiC for anode side of proton exchange membrane unitized regenerative fuel cells. International Journal of Hydrogen Energy, 2019, 44, 16087-16098.	3.8	31
92	Adsorption Structure of Glycyl-Glycine on Cu(110). Journal of Physical Chemistry C, 2010, 114, 10922-10931.	1.5	30
93	Electrochemical activity of the polycrystalline cerium oxide films for hydrogen peroxide detection. Applied Surface Science, 2019, 488, 351-359.	3.1	30
94	CO dissociation and oxidation on small supported rhodium particles: SSIMS and TPR study. Catalysis Letters, 1993, 21, 175-182.	1.4	29
95	Structural and temperature-related disordering studies of Cu6PS5I amorphous thin films. Thin Solid Films, 2012, 520, 1729-1733.	0.8	29
96	Bonding of Histidine to Cerium Oxide. Journal of Physical Chemistry B, 2013, 117, 9182-9193.	1.2	29
97	Experimental and Theoretical Investigation of the Restructuring Process Induced by CO at Near Ambient Pressure: Pt Nanoclusters on Graphene/Ir(111). ACS Nano, 2017, 11, 1041-1053.	7.3	29
98	Synchrotron radiation photoemission study of indium oxide surface prepared by spray pyrolysis method. Applied Surface Science, 2005, 243, 335-344.	3.1	28
99	Phosphorus poisoning during wet oxidation of methane over Pd@CeO2/graphite model catalysts. Applied Catalysis B: Environmental, 2016, 197, 271-279.	10.8	28
100	Comparison of Antibacterial Mode of Action of Silver Ions and Silver Nanoformulations With Different Physico-Chemical Properties: Experimental and Computational Studies. Frontiers in Microbiology, 2021, 12, 659614.	1.5	28
101	Interaction of ultrathin nickel oxide films with single-crystal zirconia and alumina surfaces. Surface and Interface Analysis, 2002, 34, 545-549.	0.8	27
102	The adsorption of adenine on mineral surfaces: Iron pyrite and silicon dioxide. Surface Science, 2007, 601, 1973-1980.	0.8	27
103	Preparation of Magnetron Sputtered Thin Cerium Oxide Films with a Large Surface on Silicon Substrates Using Carbonaceous Interlayers. ACS Applied Materials & Interfaces, 2014, 6, 1213-1218.	4.0	27
104	Efficient Ceriaâ€"Platinum Inverse Catalyst for Partial Oxidation of Methanol. Langmuir, 2016, 32, 6297-6309.	1.6	27
105	Valence band and band gap photoemission study of (111) In2O3 epitaxial films under interactions with oxygen, water and carbon monoxide. Surface Science, 2007, 601, 5585-5594.	0.8	26
106	Pt^{2 + , 4+} ions in CeO₂ rfâ€sputtered thin films. Surface and Interface Analysis, 2010, 42, 882-885.	0.8	25
107	Surface sites on Ptâ€"CeO₂mixed oxide catalysts probed by CO adsorption: a synchrotron radiation photoelectron spectroscopy study. Physical Chemistry Chemical Physics, 2014, 16, 24747-24754.	1.3	25
108	Impact of Rhâ€"CeO interaction on CO oxidation mechanisms. Applied Surface Science, 2015, 332, 747-755.	3.1	25

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109	In situ electrochemical AFM monitoring of the potential-dependent deterioration of platinum catalyst during potentiodynamic cycling. Ultramicroscopy, 2018, 187, 64-70.	0.8	25
110	Ptâ€“CeO₂ Coating of Carbon Nanotubes Grown on Anode Gas Diffusion Layer of the Polymer Electrolyte Membrane Fuel Cell. Journal of Nanoscience and Nanotechnology, 2011, 11, 5062-5067.	0.9	24
111	Revealing chemical ordering in Ptâ€“Co nanoparticles using electronic structure calculations and X-ray photoelectron spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 28298-28310.	1.3	24
112	RHEED study of the growth of cerium oxide on Cu(1 1 1). Applied Surface Science, 2012, 259, 34-38.	3.1	23
113	In-situ electrochemical atomic force microscopy study of aging of magnetron sputtered Pt-Co nanoalloy thin films during accelerated degradation test. Electrochimica Acta, 2016, 211, 52-58.	2.6	23
114	Interplay between the metal-support interaction and stability in Pt/Co₃O₄(111) model catalysts. Journal of Materials Chemistry A, 2018, 6, 23078-23086.	5.2	23
115	SRPES investigation of tungsten oxide in different oxidation states. Surface Science, 2006, 600, 1624-1627.	0.8	22
116	Interface termination and band alignment of epitaxially grown alumina films on Cuâ€“Al alloy. Journal of Applied Physics, 2008, 103, 033707.	1.1	22
117	Enhanced reactivity of Pt nanoparticles supported on ceria thin films during ethylenedehydrogenation. Physical Chemistry Chemical Physics, 2011, 13, 253-261.	1.3	22
118	Interactions of Imidazoliumâ€Based Ionic Liquids with Oxide Surfaces Controlled by Alkyl Chain Functionalization. ChemPhysChem, 2013, 14, 3673-3677.	1.0	22
119	Subpixel detection in video RHEED image analysis. Thin Solid Films, 1995, 259, 65-69.	0.8	21
120	Electronic properties of Sn/Pd intermetallic compounds on Pd(110). Surface Science, 2005, 595, 138-150.	0.8	21
121	Mechanism of Sulfur Poisoning and Storage: Adsorption and Reaction of SO₂ with Stoichiometric and Reduced Ceria Films on Cu(111). Journal of Physical Chemistry C, 2011, 115, 19872-19882.	1.5	21
122	CO and methanol adsorption on (2 Ã— 1)Pt(110) and ionâ€eroded Pt(111) model catalysts. Surface and Interface Analysis, 2011, 43, 1325-1331.	0.8	21
123	Growth and composition of nanostructured and nanoporous cerium oxide thin films on a graphite foil. Nanoscale, 2015, 7, 4038-4047.	2.8	21
124	Experimental and Theoretical Study on the Electronic Interaction between Rh Adatoms and CeOx Substrate in Dependence on a Degree of Cerium Oxide Reduction. Journal of Physical Chemistry C, 2016, 120, 5468-5476.	1.5	21
125	Oxygen partial pressure dependence of surface space charge formation in donor-doped SrTiO₃. APL Materials, 2017, 5, 056106.	2.2	21
126	Ultimate dispersion of metallic and ionic platinum on ceria. Journal of Materials Chemistry A, 2019, 7, 13019-13028.	5.2	21

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127	Cobalt Oxide-Supported Pt Electrocatalysts: Intimate Correlation between Particle Size, Electronic Metalâ€“Support Interaction and Stability. Journal of Physical Chemistry Letters, 2020, 11, 8365-8371.	2.1	21
128	All-Oxide pâ€“n Junction Thermoelectric Generator Based on SnO<i>_x</i> and ZnO Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 35187-35196.	4.0	21
129	Study of CO interaction with alumina-supported Pd particles. Surface Science, 1997, 377-379, 644-649.	0.8	20
130	CO diffusion over the alumina support of Pd particle model catalysts. Surface Science, 1998, 398, 117-124.	0.8	20
131	Nanostructured Ptâ€“CeO2 thin film catalyst grown on graphite foil by magnetron sputtering. Applied Surface Science, 2013, 267, 119-123.	3.1	20
132	Comment on â€œOrdered Phases of Reduced Ceria as Epitaxial Films on Cu(111)â€• Journal of Physical Chemistry C, 2014, 118, 5058-5059.	1.5	20
133	Altering properties of cerium oxide thin films by Rh doping. Materials Research Bulletin, 2015, 67, 5-13.	2.7	20
134	Controlling Heteroepitaxy by Oxygen Chemical Potential: Exclusive Growth of (100) Oriented Ceria Nanostructures on Cu(111). Journal of Physical Chemistry C, 2016, 120, 4895-4901.	1.5	20
135	Charge transfer and spillover phenomena in ceria-supported iridium catalysts: A model study. Journal of Chemical Physics, 2019, 151, 204703.	1.2	20
136	Study of the growth of rhodium particles on different substrates. Thin Solid Films, 1995, 260, 252-258.	0.8	19
137	Static SIMS study of Ti, Zr, V and Tiâ€“Zrâ€“V NEG activation. Vacuum, 2003, 71, 323-327.	1.6	19
138	A study of tungsten oxide nanowires self-organized on mica support. Nanotechnology, 2009, 20, 445604.	1.3	19
139	Photoemission study of the tin doped cerium oxide thin films prepared by RF magnetron sputtering. Thin Solid Films, 2010, 518, 2206-2209.	0.8	19
140	Modification of terminating species and band alignment at the interface between alumina films and metal single crystals. Surface Science, 2010, 604, 2150-2156.	0.8	19
141	In situ growth of epitaxial cerium tungstate (100) thin films. Physical Chemistry Chemical Physics, 2011, 13, 7083.	1.3	19
142	Methanol oxidation on sputter-coated platinum oxide catalysts. International Journal of Hydrogen Energy, 2016, 41, 265-275.	3.8	19
143	Unraveling the resistive switching effect in ZnO/0.5Ba(Zr 0.2 Ti 0.8)O 3 -0.5(Ba 0.7 Ca 0.3)TiO 3 heterostructures. Applied Surface Science, 2017, 400, 453-460.	3.1	19
144	Photoemission Study of Thymidine Adsorbed on Au(111) and Cu(110). Journal of Physical Chemistry C, 2010, 114, 15036-15041.	1.5	18

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145	Alcohol Dehydration on Monooxo Wâ•O and Dioxo Oâ•Wâ•O Species. Journal of Physical Chemistry Letters, 2012, 3, 2168-2172.	2.1	18
146	SO₂ Decomposition on Pt/CeO₂(111) Model Catalysts: On the Reaction Mechanism and the Influence of H₂ and CO. Journal of Physical Chemistry C, 2012, 116, 10959-10967.	1.5	18
147	Adsorption of Cytosine and AZA Derivatives of Cytidine on Au Single Crystal Surfaces. Journal of Physical Chemistry C, 2013, 117, 18423-18433.	1.5	18
148	Polarity driven morphology of CeO2(100) islands on Cu(111). Applied Surface Science, 2013, 285, 766-771.	3.1	18
149	Atomic and Electronic Structure of Vâ€"Rh(110) Near-Surface Alloy. Journal of Physical Chemistry C, 2013, 117, 12679-12688.	1.5	18
150	High low-temperature CO oxidation activity of platinum oxide prepared by magnetron sputtering. Applied Surface Science, 2015, 345, 319-328.	3.1	18
151	Characterization of thin CeO2 films electrochemically deposited on HOPG. Applied Surface Science, 2015, 350, 142-148.	3.1	18
152	Reduction of Pt2+ species in model Ptâ€"CeO2 fuel cell catalysts upon reaction with methanol. Applied Surface Science, 2016, 387, 674-681.	3.1	18
153	Efficient Ptâ€C MEA for PEMFC with Low Platinum Content Prepared by Magnetron Sputtering. Fuel Cells, 2018, 18, 51-56.	1.5	18
154	SSIMS and TDS investigation of CO adsorption on Pd(111) during CO and O2 exposure. Surface Science, 1985, 164, 209-219.	0.8	17
155	Structure of the CO bond on supported Pd particles: influence of size and surface state. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1991, 19, 361-365.	1.0	17
156	Molecular beam study of CO and O2 sticking coefficients on Rh model catalysts. Surface Science, 1997, 377-379, 813-818.	0.8	16
157	Study of InP(100) surface nitridation by x-ray photoelectron spectroscopy. Surface and Interface Analysis, 2002, 34, 712-715.	0.8	16
158	An epitaxial hexagonal tungsten bronze as precursor for WO3 nanorods on mica. Journal of Crystal Growth, 2008, 310, 3318-3324.	0.7	16
159	The interface structure and band alignment at alumina/Cu(Al) alloy interfacesâ€"Influence of the crystallinity of alumina films. Applied Surface Science, 2010, 256, 3051-3057.	3.1	16
160	Role of Oxygen in Acetic Acid Decomposition on Pt(111). Journal of Physical Chemistry C, 2014, 118, 14316-14325.	1.5	16
161	Water Adsorption and Dissociation at Metal-Supported Ceria Thin Films: Thickness and Interface-Proximity Effects Studied with DFT+U Calculations. Journal of Physical Chemistry C, 2015, 119, 2537-2544.	1.5	16
162	Candle Soot as Efficient Support for Proton Exchange Membrane Fuel Cell Catalyst. Fuel Cells, 2016, 16, 652-655.	1.5	16

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163	Micro-contacted self-assembled tungsten oxide nanorods for hydrogen gas sensing. International Journal of Hydrogen Energy, 2017, 42, 1344-1352.	3.8	16
164	MoSe<i>_x</i>O<i>_y</i>â€Coated 1D TiO₂ Nanotube Layers: Efficient Interface for Lightâ€Driven Applications. Advanced Materials Interfaces, 2018, 5, 1701146.	1.9	16
165	Electrocatalysis with Atomically Defined Model Systems: Metalâ€"Support Interactions between Pt Nanoparticles and Co3O4(111) under Ultrahigh Vacuum and in Liquid Electrolytes. Journal of Physical Chemistry C, 2018, 122, 20787-20799.	1.5	16
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