Vladimir Matolin

List of Publications by Year
in descending order

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Version: 2024-02-01

361 papers	10,191 citations	44069 48 h-index	56724 83 g-index

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

#	Article	IF	Citations
1	Characterization of innovative Pt-ceria catalysts for PEMFC by means of ex-situ and operando X-Ray Absorption Spectroscopy. International Journal of Hydrogen Energy, 2022, 47, 8799-8810.	7.1	4
2	Sputtered Irâ€“Ru based catalysts for oxygen evolution reaction: Study of iridium effect on stability. International Journal of Hydrogen Energy, 2022, 47, 21033-21043.	7.1	14
3	Selective electrooxidation of 2-propanol on Pt nanoparticles supported on Co₃O₄: an in-situ study on atomically defined model systems. Journal Physics D: Applied Physics, 2021, 54, 164002.	2.8	11
4	Investigation of dextran adsorption on polycrystalline cerium oxide surfaces. Applied Surface Science, 2021, 544, 148890.	6.1	9
5	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.	7.8	38
6	All-Oxide pâ€“n Junction Thermoelectric Generator Based on SnO_x and ZnO Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 35187-35196.	8.0	21
7	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.	3.5	28
8	Unraveling the Surface Chemistry and Structure in Highly Active Sputtered Pt₃Y Catalyst Films for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2020, 12, 4454-4462.	8.0	16
9	Effect of Cationic Interface Defects on Band Alignment and Contact Resistance in Metal/Oxide Heterojunctions. Advanced Electronic Materials, 2020, 6, 1900808.	5.1	9
10	Adsorption structure of adenine on cerium oxide. Applied Surface Science, 2020, 530, 147257.	6.1	8
11	HfO₂â€“Al₂O₃ Dielectric Layer for a Performing Metalâ€“Ferroelectricâ€“Insulatorâ€“Semiconductor Structure with a Ferroelectric 0.5Ba(Zr_{0.2}Ti_{0.8})O₃-0.5(Ba_{0.7}Ca_{0.3})TiO₃ Thin Film. ACS Applied Electronic Materials, 2020, 2, 2780-2787.	4.3	5
12	Surface Composition of a Highly Active Pt₃Y Alloy Catalyst for Application in Low Temperature Fuel Cells. Fuel Cells, 2020, 20, 413-419.	2.4	6
13	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.	4.6	21
14	Perovskite ferroelectric thin film as an efficient interface to enhance the photovoltaic characteristics of Si/SnO_x heterojunctions. Journal of Materials Chemistry A, 2020, 8, 11314-11326.	10.3	10
15	Role of nitrogenated carbon in tuning Pt-CeOx based anode catalysts for higher performance of hydrogen-powered fuel cells. Applied Surface Science, 2020, 515, 146054.	6.1	6
16	Sputter-etching treatment of proton-exchange membranes: Completely dry thin-film approach to low-loading catalyst-coated membranes for water electrolysis. International Journal of Hydrogen Energy, 2020, 45, 20776-20786.	7.1	14
17	Reversible laser-assisted structural modification of the surface of As-rich nanolayers for active photonics media. Applied Surface Science, 2020, 518, 146240.	6.1	0
18	Morphological, optical and photovoltaic characteristics of MoSe2/SiOx/Si heterojunctions. Scientific Reports, 2020, 10, 1215.	3.3	13

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19	Nanoscale architecture of ceria-based model catalysts: Ptâ€“Co nanostructures on well-ordered CeO2(111) thin films. Chinese Journal of Catalysis, 2020, 41, 985-997.	14.0	9
20	Establishing structure-sensitivity of ceria reducibility: real-time observations of surface-hydrogen interactions. Journal of Materials Chemistry A, 2020, 8, 5501-5507.	10.3	12
21	Fiber-like Structure on the Proton Exchange Membrane Created By Simultaneous Magnetron Sputtering and Plasma Etching in Role of a Catalyst Support in Water Electrolyzers. ECS Meeting Abstracts, 2020, MA2020-01, 1586-1586.	0.0	0
22	Highly developed nanostructuring of polymer-electrolyte membrane supported catalysts for hydrogen fuel cell application. Journal of Power Sources, 2019, 439, 227084.	7.8	9
23	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.	3.8	42
24	Quantitative Analysis of the Oxidation State of Cobalt Oxides by Resonant Photoemission Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 6129-6136.	4.6	39
25	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.	7.1	51
26	Electrochemical activity of the polycrystalline cerium oxide films for hydrogen peroxide detection. Applied Surface Science, 2019, 488, 351-359.	6.1	30
27	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.	4.1	33
28	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.	7.1	31
29	Redox Behavior of Pt/Co₃O₄(111) Model Electrocatalyst Studied by X-ray Photoelectron Spectroscopy Coupled with an Electrochemical Cell. Journal of Physical Chemistry C, 2019, 123, 8746-8758.	3.1	16
30	Ultimate dispersion of metallic and ionic platinum on ceria. Journal of Materials Chemistry A, 2019, 7, 13019-13028.	10.3	21
31	Charge transfer and spillover phenomena in ceria-supported iridium catalysts: A model study. Journal of Chemical Physics, 2019, 151, 204703.	3.0	20
32	Tailoring of highly porous SnO2 and SnO2-Pd thin films. Materials Chemistry and Physics, 2019, 232, 485-492.	4.0	6
33	Reversible structural changes of in situ prepared As40Se60 nanolayers studied by XPS spectroscopy. Applied Nanoscience (Switzerland), 2019, 9, 917-924.	3.1	4
34	The influence of Si in Ni on the interface modification and the band alignment between Ni and alumina. Applied Surface Science, 2018, 442, 164-169.	6.1	3
35	Annealing induced effect on the physical properties of ion-beam sputtered 0.5 Ba(Zr0.2Ti0.8)O3 â€“Â0.5 (Ba0.7Ca0.3)TiO3-Î´ ferroelectric thin films. Applied Surface Science, 2018, 443, 354-360.	6.1	5
36	On the growth mechanisms of polar (100) surfaces of ceria on copper (100). Surface Science, 2018, 671, 1-5.	1.9	2

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37	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.	3.1	72
38	Bulk Hydroxylation and Effective Water Splitting by Highly Reduced Cerium Oxide: The Role of O Vacancy Coordination. ACS Catalysis, 2018, 8, 4354-4363.	11.2	52
39	In situ electrochemical AFM monitoring of the potential-dependent deterioration of platinum catalyst during potentiodynamic cycling. Ultramicroscopy, 2018, 187, 64-70.	1.9	25
40	Efficient Ptâ€C MEA for PEMFC with Low Platinum Content Prepared by Magnetron Sputtering. Fuel Cells, 2018, 18, 51-56.	2.4	18
41	An experimental and theoretical study of adenine adsorption on Au(111). Physical Chemistry Chemical Physics, 2018, 20, 4688-4698.	2.8	13
42	MoSe_xO_yâ€Coated 1D TiO₂ Nanotube Layers: Efficient Interface for Lightâ€Driven Applications. Advanced Materials Interfaces, 2018, 5, 1701146.	3.7	16
43	Thin Film Catalysts for Proton Exchange Membrane Fuel Cells. , 2018, , 351-359.		0
44	Enhanced absorption of TiO₂ nanotubes by N-doping and CdS quantum dots sensitization: insight into the structure. RSC Advances, 2018, 8, 35073-35082.	3.6	8
45	Interplay between the metal-support interaction and stability in Pt/Co₃O₄(111) model catalysts. Journal of Materials Chemistry A, 2018, 6, 23078-23086.	10.3	23
46	Dynamical Solvent Effects on the Charge and Reactivity of Ceria-Supported Pt Nanoclusters. Journal of Physical Chemistry C, 2018, 122, 27507-27515.	3.1	10
47	Ptâ€“CeO2 Catalysts for Fuel Cell Applications: From Surface Science to Electrochemistry. , 2018, , 189-201.		2
48	Super-bandgap light stimulated reversible transformation and laser-driven mass transport at the surface of As2S3 chalcogenide nanolayers studied in situ. Journal of Chemical Physics, 2018, 149, 214702.	3.0	4
49	Nanoscale Morphological and Structural Transformations of PtCu Alloy Electrocatalysts during Potentiodynamic Cycling. Journal of Physical Chemistry C, 2018, 122, 21974-21982.	3.1	11
50	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.	13.7	141
51	Structure-Dependent Dissociation of Water on Cobalt Oxide. Journal of Physical Chemistry Letters, 2018, 9, 2763-2769.	4.6	44
52	Investigation of gas sensing mechanism of SnO2 based chemiresistor using near ambient pressure XPS. Surface Science, 2018, 677, 284-290.	1.9	51
53	Roomâ€Temperature Atomicâ€Layerâ€Deposited Al₂O₃ Improves the Efficiency of Perovskite Solar Cells over Time. ChemSusChem, 2018, 11, 3640-3648.	6.8	33
54	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.	3.1	16

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55	Electrifying model catalysts for understanding electrocatalytic reactions in liquid electrolytes. Nature Materials, 2018, 17, 592-598.	27.5	89
56	Redox-mediated conversion of atomically dispersed platinum to sub-nanometer particles. Journal of Materials Chemistry A, 2017, 5, 9250-9261.	10.3	11
57	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.	5.2	32
58	Exploiting micro-scale structural and chemical observations in real time for understanding chemical conversion: LEEM/PEEM studies over CeOxâ€“Cu(111). Ultramicroscopy, 2017, 183, 84-88.	1.9	4
59	Oxide-based nanomaterials for fuel cell catalysis: the interplay between supported single Pt atoms and particles. Catalysis Science and Technology, 2017, 7, 4315-4345.	4.1	84
60	Oxygen partial pressure dependence of surface space charge formation in donor-doped SrTiO₃. APL Materials, 2017, 5, 056106.	5.1	21
61	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.	4.1	82
62	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.	14.6	29
63	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.	6.1	19
64	Novel Fuel Cell MEA Based on Pt-C Deposited by Magnetron Sputtering. ECS Transactions, 2017, 80, 225-230.	0.5	6
65	Thermally Controlled Bonding of Adenine to Cerium Oxide: Effect of Substrate Stoichiometry, Morphology, Composition, and Molecular Deposition Technique. Journal of Physical Chemistry C, 2017, 121, 25118-25131.	3.1	7
66	Inâ€…Situ Investigation of Methane Dry Reforming on Metal/Ceria(111) Surfaces: Metalâ€“Support Interactions and Câ€“H Bond Activation at Low Temperature. Angewandte Chemie, 2017, 129, 13221-13226.	2.0	9
67	Inâ€…Situ Investigation of Methane Dry Reforming on Metal/Ceria(111) Surfaces: Metalâ€“Support Interactions and Câ€“H Bond Activation at Low Temperature. Angewandte Chemie - International Edition, 2017, 56, 13041-13046.	13.8	120
68	Structural transformations and adsorption properties of PtNi nanoalloy thin film electrocatalysts prepared by magnetron co-sputtering. Electrochimica Acta, 2017, 251, 427-441.	5.2	15
69	Covalent versus localized nature of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi>f</mml:mi></mml:mrow></mml:m electrons in ceria: Resonant angle-resolved photoemission spectroscopy and density functional theory. Physical Review B, 2017, 95, .	3.2	13
70	PLD prepared nanostructured Pt-CeO2 thin films containing ionic platinum. Applied Surface Science, 2017, 396, 278-283.	6.1	14
71	The effect of sulfur dioxide on the activity of hierarchical Pd-based catalysts in methane combustion. Applied Catalysis B: Environmental, 2017, 202, 72-83.	20.2	80
72	Influence of chemical equilibrium in introduced oxygen vacancies on resistive switching in epitaxial Pt-CeO2 system. Journal of Solid State Electrochemistry, 2017, 21, 657-664.	2.5	4

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73	Electrochemically shape-controlled transformation of magnetron sputtered platinum films into platinum nanostructures enclosed by high-index facets. Surface and Coatings Technology, 2017, 309, 6-11.	4.8	5
74	Micro-contacted self-assembled tungsten oxide nanorods for hydrogen gas sensing. International Journal of Hydrogen Energy, 2017, 42, 1344-1352.	7.1	16
75	Atomic Ordering and Sn Segregation in Ptâ€“Sn Nanoalloys Supported on CeO2 Thin Films. Topics in Catalysis, 2017, 60, 522-532.	2.8	11
76	Mass Spectrometry of Polymer Electrolyte Membrane Fuel Cells. Journal of Analytical Methods in Chemistry, 2016, 2016, 1-9.	1.6	4
77	Candle Soot as Efficient Support for Proton Exchange Membrane Fuel Cell Catalyst. Fuel Cells, 2016, 16, 652-655.	2.4	16
78	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.	20.2	52
79	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.	2.8	83
80	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.	3.1	99
81	Steering the formation of supported Ptâ€“Sn nanoalloys by reactive metalâ€“oxide interaction. RSC Advances, 2016, 6, 85688-85697.	3.6	5
82	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.	7.1	36
83	Stabilization of Small Platinum Nanoparticles on Ptâ€“CeO₂Thin Film Electrocatalysts During Methanol Oxidation. Journal of Physical Chemistry C, 2016, 120, 19723-19736.	3.1	50
84	Growth of transition metals on cerium tungstate model catalyst layers. Journal of Physics Condensed Matter, 2016, 28, 395002.	1.8	0
85	Histidine adsorption on nanostructured cerium oxide. Journal of Electron Spectroscopy and Related Phenomena, 2016, 212, 28-33.	1.7	4
86	Reduction of Pt2+ species in model Ptâ€“CeO2 fuel cell catalysts upon reaction with methanol. Applied Surface Science, 2016, 387, 674-681.	6.1	18
87	Creating single-atom Pt-ceria catalysts by surface step decoration. Nature Communications, 2016, 7, 10801.	12.8	388
88	Adsorption of ethylene on Sn and In terminated Si(001) surface studied by photoelectron spectroscopy and scanning tunneling microscopy. Journal of Chemical Physics, 2016, 145, 094701.	3.0	2
89	Efficient Ceriaâ€“Platinum Inverse Catalyst for Partial Oxidation of Methanol. Langmuir, 2016, 32, 6297-6309.	3.5	27
90	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.	5.2	23

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91	CeOx(111)/Cu(111) Thin Films as Model Catalyst Supports. Springer Series in Materials Science, 2016, , 233-250.	0.6	0
92	Two-dimensional, high valence-doped ceria: Ce 6 WO 12 (100)/W(110). Applied Surface Science, 2016, 372, 152-157.	6.1	3
93	Growth of cerium tungstate epitaxial layers: influence of temperature. Surface and Interface Analysis, 2016, 48, 111-114.	1.8	2
94	Surface composition of magnetron sputtered Pt-Co thin film catalyst for proton exchange membrane fuel cells. Applied Surface Science, 2016, 365, 245-251.	6.1	33
95	Counting electrons on supported nanoparticles. Nature Materials, 2016, 15, 284-288.	27.5	469
96	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.	3.1	21
97	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.	3.1	20
98	Reactivity of atomically dispersed Pt²⁺ species towards H₂: model Ptâ€“CeO₂ fuel cell catalyst. Physical Chemistry Chemical Physics, 2016, 18, 7672-7679.	2.8	61
99	Methanol oxidation on sputter-coated platinum oxide catalysts. International Journal of Hydrogen Energy, 2016, 41, 265-275.	7.1	19
100	Phosphorus poisoning during wet oxidation of methane over Pd@CeO2/graphite model catalysts. Applied Catalysis B: Environmental, 2016, 197, 271-279.	20.2	28
101	Adenine adlayers on Cu(111): XPS and NEXAFS study. Journal of Chemical Physics, 2015, 143, 174704.	3.0	13
102	In situ investigations of laser and thermally modified As2S3 nanolayers: Synchrotron radiation photoelectron spectroscopy and density functional theory calculations. Journal of Applied Physics, 2015, 118, .	2.5	9
103	Heteroepitaxy of Cerium Oxide Thin Films on Cu(111). Materials, 2015, 8, 6346-6359.	2.9	9
104	Influence of external factors on optical parameters in Cu₆PS₅I thin films. Proceedings of SPIE, 2015, , .	0.8	0
105	Impact of Rhâ€“CeO interaction on CO oxidation mechanisms. Applied Surface Science, 2015, 332, 747-755.	6.1	25
106	Local surface structure and structural properties of Asâ€“Se nanolayers studied by synchrotron radiation photoelectron spectroscopy and DFT calculations. Journal of Non-Crystalline Solids, 2015, 410, 180-185.	3.1	8
107	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.	3.1	16
108	Faceting Transition at the Oxideâ€“Metal Interface: (13 13 1) Facets on Cu(110) Induced by Carpet-Like Ceria Overlayer. Journal of Physical Chemistry C, 2015, 119, 1851-1858.	3.1	7

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109	Growth and composition of nanostructured and nanoporous cerium oxide thin films on a graphite foil. Nanoscale, 2015, 7, 4038-4047.	5.6	21
110	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.	13.8	205
111	Altering properties of cerium oxide thin films by Rh doping. Materials Research Bulletin, 2015, 67, 5-13.	5.2	20
112	Study of the character of gold nanoparticles deposited onto sputtered cerium oxide layers by deposition-precipitation method: Influence of the preparation parameters. Vacuum, 2015, 114, 86-92.	3.5	10
113	Atomic species identification at the (101) anatase surface by simultaneous scanning tunnelling and atomic force microscopy. Nature Communications, 2015, 6, 7265.	12.8	49
114	Photoemission Study of Methanol Adsorption and Decomposition on Pd/CeO2(111)/Cu(111) Thin Film Model Catalyst. Catalysis Letters, 2015, 145, 1474-1482.	2.6	5
115	Decomposition of Acetic Acid on Model Pt/CeO₂ Catalysts: The Effect of Surface Crowding. Journal of Physical Chemistry C, 2015, 119, 13721-13734.	3.1	13
116	High low-temperature CO oxidation activity of platinum oxide prepared by magnetron sputtering. Applied Surface Science, 2015, 345, 319-328.	6.1	18
117	Characterization of thin CeO2 films electrochemically deposited on HOPG. Applied Surface Science, 2015, 350, 142-148.	6.1	18
118	Revealing chemical ordering in Ptâ€“Co nanoparticles using electronic structure calculations and X-ray photoelectron spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 28298-28310.	2.8	24
119	Structural and electronic properties of manganese-doped Bi₂Te₃epitaxial layers. New Journal of Physics, 2015, 17, 013028.	2.9	33
120	Structural and Chemical Characterization of Cerium Oxide Thin Layers Grown on Silicon Substrate. Materials Today: Proceedings, 2015, 2, 101-107.	1.8	5
121	Functionalization of nanostructured cerium oxide films with histidine. Physical Chemistry Chemical Physics, 2015, 17, 2770-2777.	2.8	8
122	Mechanistic Insights of Ethanol Steam Reforming over Niâ€“CeO_x(111): The Importance of Hydroxyl Groups for Suppressing Coke Formation. Journal of Physical Chemistry C, 2015, 119, 18248-18256.	3.1	37
123	Influence of the Ceâ€“F interaction on cerium photoelectron spectra in CeO F layers. Chemical Physics Letters, 2015, 639, 126-130.	2.6	13
124	RHEED structural study of the novel tin-cerium oxide catalyst. Ceramics International, 2015, 41, 4946-4952.	4.8	6
125	Ptâ€“CeO thin film catalysts for PEMFC. Catalysis Today, 2015, 240, 236-241.	4.4	52
126	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.	7.8	47

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127	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.	2.8	25
128	The Mechanism of Hydrocarbon Oxygenate Reforming: Cï¿¿C Bond Scission, Carbon Formation, and Nobleâ€Metalâ€Free Oxide Catalysts. ChemSusChem, 2014, 7, 77-81.	6.8	11
129	Model thin films of Ce(III)â€based mixed oxides. Surface and Interface Analysis, 2014, 46, 993-996.	1.8	6
130	Electronic structure and bonding of small Pd clusters on stoichiometric and reduced SnO2(110) surfaces. Vacuum, 2014, 106, 86-93.	3.5	13
131	Solâ€“gel preparation of alumina stabilized rare earth areo- and xerogels and their use as oxidation catalysts. Journal of Colloid and Interface Science, 2014, 422, 71-78.	9.4	6
132	Synchrotron XPS studies of illuminated and annealed flash evaporated a-Ge2S3 films. Journal of Non-Crystalline Solids, 2014, 401, 258-262.	3.1	6
133	The effect of the substrate on thermal stability of CeO_x and Rhâ€“Ceâ€“O thin films. Surface and Interface Analysis, 2014, 46, 980-983.	1.8	1
134	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.	8.0	27
135	Hydrogen activation on Ptâ€“Sn nanoalloys supported on mixed Snâ€“Ce oxide films. Physical Chemistry Chemical Physics, 2014, 16, 13209.	2.8	8
136	Comment on â€œOrdered Phases of Reduced Ceria as Epitaxial Films on Cu(111)â€. Journal of Physical Chemistry C, 2014, 118, 5058-5059.	3.1	20
137	Ordered Phases of Reduced Ceria As Epitaxial Films on Cu(111). Journal of Physical Chemistry C, 2014, 118, 357-365.	3.1	83
138	HAXPES study of CeO thin filmâ€“silicon oxide interface. Applied Surface Science, 2014, 303, 46-53.	6.1	15
139	RHEED and XPS study of cerium interaction with SnO2 (110) surface. Ceramics International, 2014, 40, 323-329.	4.8	13
140	Maximum Nobleâ€Metal Efficiency in Catalytic Materials: Atomically Dispersed Surface Platinum. Angewandte Chemie - International Edition, 2014, 53, 10525-10530.	13.8	384
141	Role of Oxygen in Acetic Acid Decomposition on Pt(111). Journal of Physical Chemistry C, 2014, 118, 14316-14325.	3.1	16
142	Evidence for two growth modes during tungsten oxide vapor deposition on mica substrates. Journal of Crystal Growth, 2014, 394, 67-73.	1.5	1
143	Investigation of Growth Mechanism of Thin Sputtered Cerium Oxide Films on Carbon Substrates. Science of Advanced Materials, 2014, 6, 1278-1285.	0.7	11
144	Epitaxial Cubic Ce₂O₃ Films via Ceâ€“CeO₂ Interfacial Reaction. Journal of Physical Chemistry Letters, 2013, 4, 866-871.	4.6	99

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145	Deposition of Pt and Sn doped CeOx layers on silicon substrate. Surface and Coatings Technology, 2013, 227, 15-18.	4.8	7
146	Copper-ceria interaction: A combined photoemission and DFT study. Applied Surface Science, 2013, 267, 12-16.	6.1	37
147	Practical chemical analysis of Pt and Pd based heterogeneous catalysts with hard X-ray photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 268-277.	1.7	11
148	Au-CeO2 nanoporous films/carbon nanotubes composites prepared by magnetron sputtering. Applied Surface Science, 2013, 267, 150-153.	6.1	9
149	Adsorption of Cytosine and AZA Derivatives of Cytidine on Au Single Crystal Surfaces. Journal of Physical Chemistry C, 2013, 117, 18423-18433.	3.1	18
150	Epitaxial CeO2 thin films for a mechanism study of resistive random access memory (ReRAM). Journal of Solid State Electrochemistry, 2013, 17, 3137-3144.	2.5	7
151	Interactions of Imidazoliumâ€Based Ionic Liquids with Oxide Surfaces Controlled by Alkyl Chain Functionalization. ChemPhysChem, 2013, 14, 3673-3677.	2.1	22
152	Photoemission study of cerium silicate model systems. Applied Surface Science, 2013, 265, 817-822.	6.1	11
153	Photoemission and RHEED study of the supported Pt and Au epitaxial alloy clusters. Applied Surface Science, 2013, 282, 746-756.	6.1	6
154	Polarity driven morphology of CeO2(100) islands on Cu(111). Applied Surface Science, 2013, 285, 766-771.	6.1	18
155	Growth of nano-porous Pt-doped cerium oxide thin films on glassy carbon substrate. Ceramics International, 2013, 39, 3765-3769.	4.8	15
156	Nanostructured Ptâ€“CeO2 thin film catalyst grown on graphite foil by magnetron sputtering. Applied Surface Science, 2013, 267, 119-123.	6.1	20
157	Adsorption and Decomposition of Formic Acid on Model Ceria and Pt/Ceria Catalysts. Journal of Physical Chemistry C, 2013, 117, 12483-12494.	3.1	33
158	Bonding of Histidine to Cerium Oxide. Journal of Physical Chemistry B, 2013, 117, 9182-9193.	2.6	29
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