

Vladimir Matolin

List of Publications by Year in descending order

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papers

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43973

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368
times ranked

9870
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#	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.	3.8	4
2	Sputtered Ir-Ru based catalysts for oxygen evolution reaction: Study of iridium effect on stability. International Journal of Hydrogen Energy, 2022, 47, 21033-21043.	3.8	14
3	Selective electrooxidation of 2-propanol on Pt nanoparticles supported on Co ₃ O ₄ : an in-situ study on atomically defined model systems. Journal Physics D: Applied Physics, 2021, 54, 164002.	1.3	11
4	Investigation of dextran adsorption on polycrystalline cerium oxide surfaces. Applied Surface Science, 2021, 544, 148890.	3.1	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.	4.0	38
6	All-Oxide p-n Junction Thermoelectric Generator Based on SnO _x and ZnO Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 35187-35196.	4.0	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.	1.5	28
8	Unraveling the Surface Chemistry and Structure in Highly Active Sputtered Pt ₃ Y Catalyst Films for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2020, 12, 4454-4462.	4.0	16
9	Effect of Cationic Interface Defects on Band Alignment and Contact Resistance in Metal/Oxide Heterojunctions. Advanced Electronic Materials, 2020, 6, 1900808.	2.6	9
10	Adsorption structure of adenine on cerium oxide. Applied Surface Science, 2020, 530, 147257.	3.1	8
11	HfO ₂ -Al ₂ O ₃ Dielectric Layer for a Performing Metal-Ferroelectric-Insulator-Semiconductor Structure with a Ferroelectric 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.5(Ba _{0.7} Ca _{0.3})TiO ₃ Thin Film. ACS Applied Electronic Materials, 2020, 2, 2780-2787.	2.0	5
12	Surface Composition of a Highly Active Pt ₃ Y Alloy Catalyst for Application in Low Temperature Fuel Cells. Fuel Cells, 2020, 20, 413-419.	1.5	6
13	Cobalt Oxide-Supported Pt Electrocatalysts: Intimate Correlation between Particle Size, Electronic Metal-Support Interaction and Stability. Journal of Physical Chemistry Letters, 2020, 11, 8365-8371.	2.1	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.	5.2	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.	3.1	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.	3.8	14
17	Reversible laser-assisted structural modification of the surface of As-rich nanolayers for active photonics media. Applied Surface Science, 2020, 518, 146240.	3.1	0
18	Morphological, optical and photovoltaic characteristics of MoSe ₂ /SiOx/Si heterojunctions. Scientific Reports, 2020, 10, 1215.	1.6	13

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19	Nanoscale architecture of ceria-based model catalysts: Pt-Co nanostructures on well-ordered CeO ₂ (111) thin films. Chinese Journal of Catalysis, 2020, 41, 985-997.	6.9	9
20	Establishing structure-sensitivity of ceria reducibility: real-time observations of surface-hydrogen interactions. Journal of Materials Chemistry A, 2020, 8, 5501-5507.	5.2	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.	4.0	9
23	Spectroscopic Understanding of SnO ₂ and WO ₃ 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
24	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
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.	3.8	51
26	Electrochemical activity of the polycrystalline cerium oxide films for hydrogen peroxide detection. Applied Surface Science, 2019, 488, 351-359.	3.1	30
27	Effect of ZnO on acid-base properties and catalytic performances of ZnO/ZrO ₂ -SiO ₂ catalysts in 1,3-butadiene production from ethanol-water mixture. Catalysis Science and Technology, 2019, 9, 3964-3978.	2.1	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.	3.8	31
29	Redox Behavior of Pt/Co ₃ O ₄ (111) Model Electrocatalyst Studied by X-ray Photoelectron Spectroscopy Coupled with an Electrochemical Cell. Journal of Physical Chemistry C, 2019, 123, 8746-8758.	1.5	16
30	Ultimate dispersion of metallic and ionic platinum on ceria. Journal of Materials Chemistry A, 2019, 7, 13019-13028.	5.2	21
31	Charge transfer and spillover phenomena in ceria-supported iridium catalysts: A model study. Journal of Chemical Physics, 2019, 151, 204703.	1.2	20
32	Tailoring of highly porous SnO ₂ and SnO ₂ -Pd thin films. Materials Chemistry and Physics, 2019, 232, 485-492.	2.0	6
33	Reversible structural changes of in situ prepared As ₄₀ Se ₆₀ nanolayers studied by XPS spectroscopy. Applied Nanoscience (Switzerland), 2019, 9, 917-924.	1.6	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.	3.1	3
35	Annealing induced effect on the physical properties of ion-beam sputtered 0.5 Ba(Zr _{0.2} Ti _{0.8})O ₃ - x Ba _{0.7} Ca _{0.3} TiO ₃ - γ ferroelectric thin films. Applied Surface Science, 2018, 443, 354-360.	3.1	5
36	On the growth mechanisms of polar (100) surfaces of ceria on copper (100). Surface Science, 2018, 671, 1-5.	0.8	2

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37	In Situ DRIFTS and NAP-XPS Exploration of the Complexity of CO ₂ Hydrogenation over Size-Controlled Pt Nanoparticles Supported on Mesoporous NiO. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5553-5565.	1.5	72
38	Bulk Hydroxylation and Effective Water Splitting by Highly Reduced Cerium Oxide: The Role of O Vacancy Coordination. <i>ACS Catalysis</i> , 2018, 8, 4354-4363.	5.5	52
39	In situ electrochemical AFM monitoring of the potential-dependent deterioration of platinum catalyst during potentiodynamic cycling. <i>Ultramicroscopy</i> , 2018, 187, 64-70.	0.8	25
40	Efficient Pt/C MEA for PEMFC with Low Platinum Content Prepared by Magnetron Sputtering. <i>Fuel Cells</i> , 2018, 18, 51-56.	1.5	18
41	An experimental and theoretical study of adenine adsorption on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4688-4698.	1.3	13
42	MoSe ₂ /TiO ₂ Nanotube Layers: Efficient Interface for Light-Driven Applications. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701146.	1.9	16
43	Thin Film Catalysts for Proton Exchange Membrane Fuel Cells. , 2018, , 351-359.		0
44	Enhanced absorption of TiO ₂ nanotubes by N-doping and CdS quantum dots sensitization: insight into the structure. <i>RSC Advances</i> , 2018, 8, 35073-35082.	1.7	8
45	Interplay between the metal-support interaction and stability in Pt/Co ₃ O ₄ (111) model catalysts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23078-23086.	5.2	23
46	Dynamical Solvent Effects on the Charge and Reactivity of Ceria-Supported Pt Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27507-27515.	1.5	10
47	Pt/CeO ₂ 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 As ₂ S ₃ chalcogenide nanolayers studied <i>in situ</i> . <i>Journal of Chemical Physics</i> , 2018, 149, 214702.	1.2	4
49	Nanoscale Morphological and Structural Transformations of PtCu Alloy Electrocatalysts during Potentiodynamic Cycling. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21974-21982.	1.5	11
50	Direct Conversion of Methane to Methanol on Ni-Ceria Surfaces: Metal-Support Interactions and Water-Enabled Catalytic Conversion by Site Blocking. <i>Journal of the American Chemical Society</i> , 2018, 140, 7681-7687.	6.6	141
51	Structure-Dependent Dissociation of Water on Cobalt Oxide. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2763-2769.	2.1	44
52	Investigation of gas sensing mechanism of SnO ₂ based chemiresistor using near ambient pressure XPS. <i>Surface Science</i> , 2018, 677, 284-290.	0.8	51
53	Room-Temperature Atomic-Layer-Deposited Al ₂ O ₃ Improves the Efficiency of Perovskite Solar Cells over Time. <i>ChemSusChem</i> , 2018, 11, 3640-3648.	3.6	33
54	Electrocatalysis with Atomically Defined Model Systems: Metal-Support Interactions between Pt Nanoparticles and Co ₃ O ₄ (111) under Ultrahigh Vacuum and in Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20787-20799.	1.5	16

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55	Electrifying model catalysts for understanding electrocatalytic reactions in liquid electrolytes. <i>Nature Materials</i> , 2018, 17, 592-598.	13.3	89
56	Redox-mediated conversion of atomically dispersed platinum to sub-nanometer particles. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9250-9261.	5.2	11
57	In situ probing of magnetron sputtered Pt-Ni alloy fuel cell catalysts during accelerated durability test using EC-AFM. <i>Electrochimica Acta</i> , 2017, 245, 760-769.	2.6	32
58	Exploiting micro-scale structural and chemical observations in real time for understanding chemical conversion: LEEM/PEEM studies over CeO _x -Cu(111). <i>Ultramicroscopy</i> , 2017, 183, 84-88.	0.8	4
59	Oxide-based nanomaterials for fuel cell catalysis: the interplay between supported single Pt atoms and particles. <i>Catalysis Science and Technology</i> , 2017, 7, 4315-4345.	2.1	84
60	Oxygen partial pressure dependence of surface space charge formation in donor-doped SrTiO ₃ . <i>APL Materials</i> , 2017, 5, 056106.	2.2	21
61	Unraveling the surface state and composition of highly selective nanocrystalline Ni-Cu alloy catalysts for hydrodeoxygenation of HMF. <i>Catalysis Science and Technology</i> , 2017, 7, 1735-1743.	2.1	82
62	Experimental and Theoretical Investigation of the Restructuring Process Induced by CO at Near Ambient Pressure: Pt Nanoclusters on Graphene/Ir(111). <i>ACS Nano</i> , 2017, 11, 1041-1053.	7.3	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. <i>Applied Surface Science</i> , 2017, 400, 453-460.	3.1	19
64	Novel Fuel Cell MEA Based on Pt-C Deposited by Magnetron Sputtering. <i>ECS Transactions</i> , 2017, 80, 225-230.	0.3	6
65	Thermally Controlled Bonding of Adenine to Cerium Oxide: Effect of Substrate Stoichiometry, Morphology, Composition, and Molecular Deposition Technique. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25118-25131.	1.5	7
66	In situ Investigation of Methane Dry Reforming on Metal/Ceria(111) Surfaces: Metal-Support Interactions and C-H Bond Activation at Low Temperature. <i>Angewandte Chemie</i> , 2017, 129, 13221-13226.	1.6	9
67	In situ Investigation of Methane Dry Reforming on Metal/Ceria(111) Surfaces: Metal-Support Interactions and C-H Bond Activation at Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13041-13046.	7.2	120
68	Structural transformations and adsorption properties of PtNi nanoalloy thin film electrocatalysts prepared by magnetron co-sputtering. <i>Electrochimica Acta</i> , 2017, 251, 427-441.	2.6	15
69	Covalent versus localized nature of f electrons in ceria: Resonant angle-resolved photoemission spectroscopy and density functional theory. <i>Physical Review B</i> , 2017, 95, .	1.1	13
70	PLD prepared nanostructured Pt-CeO ₂ thin films containing ionic platinum. <i>Applied Surface Science</i> , 2017, 396, 278-283.	3.1	14
71	The effect of sulfur dioxide on the activity of hierarchical Pd-based catalysts in methane combustion. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 72-83.	10.8	80
72	Influence of chemical equilibrium in introduced oxygen vacancies on resistive switching in epitaxial Pt-CeO ₂ system. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 657-664.	1.2	4

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73	Electrochemically shape-controlled transformation of magnetron sputtered platinum films into platinum nanostructures enclosed by high-index facets. <i>Surface and Coatings Technology</i> , 2017, 309, 6-11.	2.2	5
74	Micro-contacted self-assembled tungsten oxide nanorods for hydrogen gas sensing. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1344-1352.	3.8	16
75	Atomic Ordering and Sn Segregation in Pt-Sn Nanoalloys Supported on CeO ₂ Thin Films. <i>Topics in Catalysis</i> , 2017, 60, 522-532.	1.3	11
76	Mass Spectrometry of Polymer Electrolyte Membrane Fuel Cells. <i>Journal of Analytical Methods in Chemistry</i> , 2016, 2016, 1-9.	0.7	4
77	Candle Soot as Efficient Support for Proton Exchange Membrane Fuel Cell Catalyst. <i>Fuel Cells</i> , 2016, 16, 652-655.	1.5	16
78	High efficiency of Pt ²⁺ - CeO ₂ novel thin film catalyst as anode for proton exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2016, 197, 262-270.	10.8	52
79	Ambient pressure XPS and IRRAS investigation of ethanol steam reforming on Ni-CeO ₂ (111) catalysts: an in situ study of C-C and O-H bond scission. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16621-16628.	1.3	83
80	Atomically Dispersed Pd, Ni, and Pt Species in Ceria-Based Catalysts: Principal Differences in Stability and Reactivity. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9852-9862.	1.5	99
81	Steering the formation of supported Pt-Sn nanoalloys by reactive metal-oxide interaction. <i>RSC Advances</i> , 2016, 6, 85688-85697.	1.7	5
82	Magnetron sputtered Ir thin film on TiC-based support sublayer as low-loading anode catalyst for proton exchange membrane water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15124-15132.	3.8	36
83	Stabilization of Small Platinum Nanoparticles on Pt-CeO ₂ Thin Film Electrocatalysts During Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19723-19736.	1.5	50
84	Growth of transition metals on cerium tungstate model catalyst layers. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 395002.	0.7	0
85	Histidine adsorption on nanostructured cerium oxide. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2016, 212, 28-33.	0.8	4
86	Reduction of Pt ²⁺ species in model Pt-CeO ₂ fuel cell catalysts upon reaction with methanol. <i>Applied Surface Science</i> , 2016, 387, 674-681.	3.1	18
87	Creating single-atom Pt-ceria catalysts by surface step decoration. <i>Nature Communications</i> , 2016, 7, 10801.	5.8	388
88	Adsorption of ethylene on Sn and In terminated Si(001) surface studied by photoelectron spectroscopy and scanning tunneling microscopy. <i>Journal of Chemical Physics</i> , 2016, 145, 094701.	1.2	2
89	Efficient Ceria-Platinum Inverse Catalyst for Partial Oxidation of Methanol. <i>Langmuir</i> , 2016, 32, 6297-6309.	1.6	27
90	In-situ electrochemical atomic force microscopy study of aging of magnetron sputtered Pt-Co nanoalloy thin films during accelerated degradation test. <i>Electrochimica Acta</i> , 2016, 211, 52-58.	2.6	23

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91	CeO _x (111)/Cu(111) Thin Films as Model Catalyst Supports. Springer Series in Materials Science, 2016, , 233-250.	0.4	0
92	Two-dimensional, high valence-doped ceria: Ce ₆ WO ₁₂ (100)/W(110). Applied Surface Science, 2016, 372, 152-157.	3.1	3
93	Growth of cerium tungstate epitaxial layers: influence of temperature. Surface and Interface Analysis, 2016, 48, 111-114.	0.8	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.	3.1	33
95	Counting electrons on supported nanoparticles. Nature Materials, 2016, 15, 284-288.	13.3	469
96	Experimental and Theoretical Study on the Electronic Interaction between Rh Adatoms and CeO _x Substrate in Dependence on a Degree of Cerium Oxide Reduction. Journal of Physical Chemistry C, 2016, 120, 5468-5476.	1.5	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.	1.5	20
98	Reactivity of atomically dispersed Pt ²⁺ species towards H ₂ : model Pt@CeO ₂ fuel cell catalyst. Physical Chemistry Chemical Physics, 2016, 18, 7672-7679.	1.3	61
99	Methanol oxidation on sputter-coated platinum oxide catalysts. International Journal of Hydrogen Energy, 2016, 41, 265-275.	3.8	19
100	Phosphorus poisoning during wet oxidation of methane over Pd@CeO ₂ /graphite model catalysts. Applied Catalysis B: Environmental, 2016, 197, 271-279.	10.8	28
101	Adenine adlayers on Cu(111): XPS and NEXAFS study. Journal of Chemical Physics, 2015, 143, 174704.	1.2	13
102	In situ investigations of laser and thermally modified As ₂ S ₃ nanolayers: Synchrotron radiation photoelectron spectroscopy and density functional theory calculations. Journal of Applied Physics, 2015, 118, .	1.1	9
103	Heteroepitaxy of Cerium Oxide Thin Films on Cu(111). Materials, 2015, 8, 6346-6359.	1.3	9
104	Influence of external factors on optical parameters in Cu ₆ PS ₅ I thin films. Proceedings of SPIE, 2015, , .	0.8	0
105	Impact of Rh@CeO interaction on CO oxidation mechanisms. Applied Surface Science, 2015, 332, 747-755.	3.1	25
106	Local surface structure and structural properties of As ₂ Se ₃ nanolayers studied by synchrotron radiation photoelectron spectroscopy and DFT calculations. Journal of Non-Crystalline Solids, 2015, 410, 180-185.	1.5	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.	1.5	16
108	Faceting Transition at the Oxide@Metal Interface: (111) Facets on Cu(110) Induced by Carpet-Like Ceria Overlayer. Journal of Physical Chemistry C, 2015, 119, 1851-1858.	1.5	7

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109	Growth and composition of nanostructured and nanoporous cerium oxide thin films on a graphite foil. <i>Nanoscale</i> , 2015, 7, 4038-4047.	2.8	21
110	In Situ and Theoretical Studies for the Dissociation of Water on an Active Ni/CeO ₂ Catalyst: Importance of Strong Metal-Support Interactions for the Cleavage of O-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3917-3921.	7.2	205
111	Altering properties of cerium oxide thin films by Rh doping. <i>Materials Research Bulletin</i> , 2015, 67, 5-13.	2.7	20
112	Study of the character of gold nanoparticles deposited onto sputtered cerium oxide layers by deposition-precipitation method: Influence of the preparation parameters. <i>Vacuum</i> , 2015, 114, 86-92.	1.6	10
113	Atomic species identification at the (101) anatase surface by simultaneous scanning tunnelling and atomic force microscopy. <i>Nature Communications</i> , 2015, 6, 7265.	5.8	49
114	Photoemission Study of Methanol Adsorption and Decomposition on Pd/CeO ₂ (111)/Cu(111) Thin Film Model Catalyst. <i>Catalysis Letters</i> , 2015, 145, 1474-1482.	1.4	5
115	Decomposition of Acetic Acid on Model Pt/CeO ₂ Catalysts: The Effect of Surface Crowding. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13721-13734.	1.5	13
116	High low-temperature CO oxidation activity of platinum oxide prepared by magnetron sputtering. <i>Applied Surface Science</i> , 2015, 345, 319-328.	3.1	18
117	Characterization of thin CeO ₂ films electrochemically deposited on HOPG. <i>Applied Surface Science</i> , 2015, 350, 142-148.	3.1	18
118	Revealing chemical ordering in Pt-Co nanoparticles using electronic structure calculations and X-ray photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28298-28310.	1.3	24
119	Structural and electronic properties of manganese-doped Bi ₂ Te ₃ epitaxial layers. <i>New Journal of Physics</i> , 2015, 17, 013028.	1.2	33
120	Structural and Chemical Characterization of Cerium Oxide Thin Layers Grown on Silicon Substrate. <i>Materials Today: Proceedings</i> , 2015, 2, 101-107.	0.9	5
121	Functionalization of nanostructured cerium oxide films with histidine. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2770-2777.	1.3	8
122	Mechanistic Insights of Ethanol Steam Reforming over Ni-CeO _x (111): The Importance of Hydroxyl Groups for Suppressing Coke Formation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18248-18256.	1.5	37
123	Influence of the Ce-F interaction on cerium photoelectron spectra in CeO _x F layers. <i>Chemical Physics Letters</i> , 2015, 639, 126-130.	1.2	13
124	RHEED structural study of the novel tin-cerium oxide catalyst. <i>Ceramics International</i> , 2015, 41, 4946-4952.	2.3	6
125	Pt-CeO thin film catalysts for PEMFC. <i>Catalysis Today</i> , 2015, 240, 236-241.	2.2	52
126	Proton exchange membrane fuel cell made of magnetron sputtered Pt-CeO and Pt-Co thin film catalysts. <i>Journal of Power Sources</i> , 2015, 273, 105-109.	4.0	47

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127	Surface sites on Pt-CeO ₂ mixed oxide catalysts probed by CO adsorption: a synchrotron radiation photoelectron spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24747-24754.	1.3	25
128	The Mechanism of Hydrocarbon Oxygenate Reforming: C-C Bond Scission, Carbon Formation, and Noble-Metal-Free Oxide Catalysts. <i>ChemSusChem</i> , 2014, 7, 77-81.	3.6	11
129	Model thin films of Ce(III)-based mixed oxides. <i>Surface and Interface Analysis</i> , 2014, 46, 993-996.	0.8	6
130	Electronic structure and bonding of small Pd clusters on stoichiometric and reduced SnO ₂ (110) surfaces. <i>Vacuum</i> , 2014, 106, 86-93.	1.6	13
131	Sol-gel preparation of alumina stabilized rare earth oxo- and xerogels and their use as oxidation catalysts. <i>Journal of Colloid and Interface Science</i> , 2014, 422, 71-78.	5.0	6
132	Synchrotron XPS studies of illuminated and annealed flash evaporated a-Ge ₂ S ₃ films. <i>Journal of Non-Crystalline Solids</i> , 2014, 401, 258-262.	1.5	6
133	The effect of the substrate on thermal stability of CeO _x and Rh-Ce-O thin films. <i>Surface and Interface Analysis</i> , 2014, 46, 980-983.	0.8	1
134	Preparation of Magnetron Sputtered Thin Cerium Oxide Films with a Large Surface on Silicon Substrates Using Carbonaceous Interlayers. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1213-1218.	4.0	27
135	Hydrogen activation on Pt-Sn nanoalloys supported on mixed Sn-Ce oxide films. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13209.	1.3	8
136	Comment on "Ordered Phases of Reduced Ceria as Epitaxial Films on Cu(111)". <i>Journal of Physical Chemistry C</i> , 2014, 118, 5058-5059.	1.5	20
137	Ordered Phases of Reduced Ceria As Epitaxial Films on Cu(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 357-365.	1.5	83
138	HAXPES study of CeO thin film-silicon oxide interface. <i>Applied Surface Science</i> , 2014, 303, 46-53.	3.1	15
139	RHEED and XPS study of cerium interaction with SnO ₂ (110) surface. <i>Ceramics International</i> , 2014, 40, 323-329.	2.3	13
140	Maximum Noble-Metal Efficiency in Catalytic Materials: Atomically Dispersed Surface Platinum. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10525-10530.	7.2	384
141	Role of Oxygen in Acetic Acid Decomposition on Pt(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 14316-14325.	1.5	16
142	Evidence for two growth modes during tungsten oxide vapor deposition on mica substrates. <i>Journal of Crystal Growth</i> , 2014, 394, 67-73.	0.7	1
143	Investigation of Growth Mechanism of Thin Sputtered Cerium Oxide Films on Carbon Substrates. <i>Science of Advanced Materials</i> , 2014, 6, 1278-1285.	0.1	11
144	Epitaxial Cubic Ce ₂ O ₃ Films via Ce-CeO ₂ Interfacial Reaction. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 866-871.	2.1	99

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145	Deposition of Pt and Sn doped CeO _x layers on silicon substrate. <i>Surface and Coatings Technology</i> , 2013, 227, 15-18.	2.2	7
146	Copper-ceria interaction: A combined photoemission and DFT study. <i>Applied Surface Science</i> , 2013, 267, 12-16.	3.1	37
147	Practical chemical analysis of Pt and Pd based heterogeneous catalysts with hard X-ray photoelectron spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 190, 268-277.	0.8	11
148	Au-CeO ₂ nanoporous films/carbon nanotubes composites prepared by magnetron sputtering. <i>Applied Surface Science</i> , 2013, 267, 150-153.	3.1	9
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