JÃÂ¶rg Libuda

List of Publications by Year
in descending order

276 papers	12,563 citations	20759 60 h-index	35952 97 g-index
289 all docs	289 docs citations	289 times ranked	9168 citing authors

#	Article	IF	Citations
1	The Role of Defects in the Photoconversion of 2-Propanol on Rutile Titania: Operando Spectroscopy Combined with Elementary Studies. Journal of Catalysis, 2022, , .	3.1	2
2	Anchoring of porphyrins on atomically defined cobalt oxide: In-situ infrared spectroscopy at the electrified solid/liquid interface. Surface Science, 2022, 718, 122013.	0.8	1
3	Redox-mediated Câ€“C bond scission in alcohols adsorbed on CeO_{2â^' x} thin films. Journal of Physics Condensed Matter, 2022, 34, 194002.	0.7	2
4	Triggering the energy release in molecular solar thermal systems: Norbornadiene-functionalized trioxatriangulen on Au(111). Nano Energy, 2022, 95, 107007.	8.2	10
5	OperandoIdentification of the Reversible Skin Layer on Co₃O₄as a Three-Dimensional Reaction Zone for Oxygen Evolution. ACS Catalysis, 2022, 12, 3256-3268.	5.5	28
6	Disproportionation of Nitric Oxide at a Surfaceâ€Bound Nickel Porphyrinoid. Angewandte Chemie - International Edition, 2022, 61, .	7.2	4
7	Adsorption and Reaction of NH₃ on Rutile TiO₂(110): An STM Study. Journal of Physical Chemistry C, 2022, 126, 6590-6600.	1.5	1
8	SelektivitÃtskontrolle in elektrokatalytischen Oxidationsreaktionen durch Ionische FlÃ¼ssigkeiten. Angewandte Chemie, 2022, 134, .	1.6	2
9	Modifying the Electrocatalytic Selectivity of Oxidation Reactions with Ionic Liquids. Angewandte Chemie - International Edition, 2022, 61, .	7.2	13
10	Improving the Performance of Supported Ionic Liquid Phase Catalysts for the Ultra-Low-Temperature Water Gas Shift Reaction Using Organic Salt Additives. ACS Catalysis, 2022, 12, 5661-5672.	5.5	7
11	Supraparticles for Bareâ€Eye H₂ Indication and Monitoring: Design, Working Principle, and Molecular Mobility (Adv. Funct. Mater. 22/2022). Advanced Functional Materials, 2022, 32, .	7.8	1
12	A combined rotating disk electrodeâ€“surface x-ray diffraction setup for surface structure characterization in electrocatalysis. Review of Scientific Instruments, 2022, 93, .	0.6	2
13	Electrochemically Triggered Energy Release from an Azothiopheneâ€Based Molecular Solar Thermal System. ChemSusChem, 2022, 15, .	3.6	6
14	Model Studies on the Ozoneâ€Mediated Synthesis of Cobalt Oxide Nanoparticles from Dicobalt Octacarbonyl in Ionic Liquids. ChemistryOpen, 2021, 10, 141-152.	0.9	1
15	Metastability of palladium carbide nanoparticles during hydrogen release from liquid organic hydrogen carriers. Physical Chemistry Chemical Physics, 2021, 23, 1371-1380.	1.3	5
16	Enhancing the feasibility of Pd/C-catalyzed formic acid decomposition for hydrogen generation â€“ catalyst pretreatment, deactivation, and regeneration. Catalysis Science and Technology, 2021, 11, 4259-4271.	2.1	12
17	Stability of the Pd/Co₃O₄(111) Model Catalysts in Oxidizing and Humid Environments. Journal of Physical Chemistry C, 2021, 125, 2907-2917.	1.5	9
18	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.	1.3	11

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19	Photoconversion of 2-Propanol on Rutile Titania: A Combined Liquid-Phase and Surface Science Study. Journal of Physical Chemistry C, 2021, 125, 3355-3367.	1.5	10
20	Hydrogen Production Based on Liquid Organic Hydrogen Carriers through Sulfur Doped Platinum Catalysts Supported on TiO₂. ACS Sustainable Chemistry and Engineering, 2021, 9, 6561-6573.	3.2	39
21	A Molecular View of the Ionic Liquid Catalyst Interface of SCILLs: Coverage-Dependent Adsorption Motifs of [C₄C₁Pyr][NTf₂] on Pd Single Crystals and Nanoparticles. Journal of Physical Chemistry C, 2021, 125, 13264-13272.	1.5	9
22	Reactive interaction of isopropanol with Co3O4(1 1 1) and Pt/Co3O4(1 1 1) model catalysts. Journal of Catalysis, 2021, 398, 171-184.	3.1	8
23	CO Permeability and Wetting Behavior of Ionic Liquids on Pt(111): An IRAS and PM-IRAS Study from Ultrahigh Vacuum to Ambient Pressure. Journal of Physical Chemistry C, 2021, 125, 15301-15315.	1.5	9
24	Model electrocatalysts for the oxidation of rechargeable electrofuels - carbon supported Pt nanoparticles prepared in UHV. Electrochimica Acta, 2021, 389, 138716.	2.6	8
25	Structural Dynamics of Ultrathin Cobalt Oxide Nanoislands under Potential Control. Advanced Functional Materials, 2021, 31, 2009923.	7.8	26
26	Adsorption Motifs and Molecular Orientation at the Ionic Liquid/Noble Metal Interface: [C₂C₁Im][NTf₂] on Pt(111). Langmuir, 2021, 37, 12596-12607.	1.6	9
27	Roomâ€Temperature Onâ€Spinâ€Switching and Tuning in a Porphyrinâ€Based Multifunctional Interface. Small, 2021, 17, e2104779.	5.2	19
28	Interaction between Ionic Liquids and a Pt(111) Surface Probed by Coadsorbed CO as a Test Molecule. Journal of Physical Chemistry Letters, 2021, 12, 10079-10085.	2.1	5
29	Reduction of Oxide Layers on Au(111): The Interplay between Reduction Rate, Dissolution, and Restructuring. Journal of Physical Chemistry C, 2021, 125, 22698-22704.	1.5	11
30	Adsorption of D₂O and CO on Co₃O₄(111): Water Stabilizes Coadsorbed CO. Journal of Physical Chemistry C, 2021, 125, 26785-26792.	1.5	3
31	Storing energy with molecular photoisomers. Joule, 2021, 5, 3116-3136.	11.7	86
32	Cu carbonyls enhance the performance of Ru-based SILP waterâ€“gas shift catalysts: a combinedin situDRIFTS and DFT study. Catalysis Science and Technology, 2020, 10, 252-262.	2.1	7
33	Electrifying Oxide Model Catalysis: Complex Electrodes Based on Atomically-Defined Oxide Films. Catalysis Letters, 2020, 150, 1546-1560.	1.4	10
34	Areaâ€Selective Growth of HfS₂ Thin Films via Atomic Layer Deposition at Low Temperature. Advanced Materials Interfaces, 2020, 7, 2001493.	1.9	10
35	Thin Films: Areaâ€Selective Growth of HfS₂ Thin Films via Atomic Layer Deposition at Low Temperature (Adv. Mater. Interfaces 23/2020). Advanced Materials Interfaces, 2020, 7, 2070130.	1.9	0
36	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

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37	Surface Structure Controls Self-Metalation: In-Situ IR Studies of Anchored Porphyrins on Atomically-Defined Cobalt Oxide Surfaces. Journal of Physical Chemistry C, 2020, 124, 21538-21548.	1.5	10
38	Secondary Alcohols as Rechargeable Electrofuels: Electrooxidation of Isopropyl Alcohol at Pt Electrodes. ACS Catalysis, 2020, 10, 6831-6842.	5.5	32
39	Controlled selectivity for ethanol steam reforming reaction over doped CeO2 surfaces: The role of gallium. Applied Catalysis B: Environmental, 2020, 277, 119103.	10.8	29
40	NAP-XPS and In Situ DRIFTS of the Interaction of CO with Au Nanoparticles Supported by Ce_{1â€“x}Eu_xO₂ Nanocubes. Journal of Physical Chemistry C, 2020, 124, 5647-5656.	1.5	11
41	Electrochemically controlled energy release from a norbornadiene-based solar thermal fuel: increasing the reversibility to 99.8% using HOPG as the electrode material. Journal of Materials Chemistry A, 2020, 8, 15658-15664.	5.2	25
42	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.	6.9	9
43	Ptâ€“Ga Model SCALMS on Modified HOPG: Thermal Behavior and Stability in UHV and under Near-Ambient Conditions. Journal of Physical Chemistry C, 2020, 124, 2562-2573.	1.5	15
44	Norbornadiene photoswitches anchored to well-defined oxide surfaces: From ultrahigh vacuum into the liquid and the electrochemical environment. Journal of Chemical Physics, 2020, 152, 044708.	1.2	18
45	Selfâ€Metalation of Anchored Porphyrins on Atomically Defined Cobalt Oxide Surfaces: In situ Studies by Surface Vibrational Spectroscopy. Chemistry - A European Journal, 2020, 26, 12445-12453.	1.7	13
46	Water on Atomically-Defined Cobalt Oxide Surfaces Studied by Temperature-Programmed IR Reflection Absorption Spectroscopy and Steady State Isotopic Exchange. Journal of Physical Chemistry C, 2019, 123, 7673-7681.	1.5	16
47	Improving the performance of supported ionic liquid phase (SILP) catalysts for the ultra-low-temperature waterâ€“gas shift reaction using metal salt additives. Green Chemistry, 2019, 21, 5008-5018.	4.6	16
48	Electrochemically controlled energy storage in a norbornadiene-based solar fuel with 99% reversibility. Nano Energy, 2019, 63, 103872.	8.2	31
49	Dissolution of Platinum Single Crystals in Acidic Medium. ChemPhysChem, 2019, 20, 2997-3003.	1.0	42
50	Lowâ€Temperature Synthesis of Oxides in Ionic Liquids: Ozoneâ€Mediated Formation of Co₃O₄ Nanoparticles Monitored by In Situ Infrared Spectroscopy. Advanced Materials Interfaces, 2019, 6, 1900890.	1.9	7
51	Highly Effective Propane Dehydrogenation Using Gaâ€“Rh Supported Catalytically Active Liquid Metal Solutions. ACS Catalysis, 2019, 9, 9499-9507.	5.5	76
52	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
53	Dissociation of water on atomically-defined cobalt oxide nanoislands on Pt(111) and its effect on the adsorption of CO. Journal of Materials Research, 2019, 34, 379-393.	1.2	9
54	Towards an efficient liquid organic hydrogen carrier fuel cell concept. Energy and Environmental Science, 2019, 12, 2305-2314.	15.6	73

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55	Boosting the activity of hydrogen release from liquid organic hydrogen carrier systems by sulfur-additives to Pt on alumina catalysts. Catalysis Science and Technology, 2019, 9, 3537-3547.	2.1	84
56	Solar energy storage at an atomically defined organic-oxide hybrid interface. Nature Communications, 2019, 10, 2384.	5.8	37
57	Water on Oxide Surfaces: A Triaqua Surface Coordination Complex on Co₃O₄(111). Journal of the American Chemical Society, 2019, 141, 5623-5627.	6.6	18
58	A simple high-intensity UV-photon source for photochemical studies in UHV: Application to the photoconversion of norbornadiene to quadricyclane. Review of Scientific Instruments, 2019, 90, 024105.	0.6	9
59	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.	1.5	16
60	Ptâ€“Ga Model SCALMS on Modified HOPG: Growth and Adsorption Properties. Topics in Catalysis, 2019, 62, 849-858.	1.3	9
61	Operando DRIFTS and DFT Study of Propane Dehydrogenation over Solid- and Liquid-Supported Ga_xPt_y Catalysts. ACS Catalysis, 2019, 9, 2842-2853.	5.5	83
62	Molecular anchoring to oxide surfaces in ultrahigh vacuum and in aqueous electrolytes: phosphonic acids on atomically-defined cobalt oxide. Physical Chemistry Chemical Physics, 2019, 21, 23364-23374.	1.3	6
63	Dynamic CO Adsorption and Desorption through the Ionic Liquid Layer of a Pt Model Solid Catalyst with Ionic Liquid Layers. Journal of Physical Chemistry C, 2019, 123, 31057-31072.	1.5	12
64	Charge transfer and spillover phenomena in ceria-supported iridium catalysts: A model study. Journal of Chemical Physics, 2019, 151, 204703.	1.2	20
65	Pd model catalysts on clean and modified HOPG: Growth, adsorption properties, and stability. Surface Science, 2019, 679, 64-73.	0.8	20
66	Pd-Ga model SCALMS: Characterization and stability of Pd single atom sites. Journal of Catalysis, 2019, 369, 33-46.	3.1	33
67	Dehydrogenation of the Liquid Organic Hydrogen Carrier System Indole/Indoline/Octahydroindole on Pt(111). Journal of Physical Chemistry C, 2018, 122, 4470-4479.	1.5	33
68	Phosphonic Acids on an Atomically Defined Oxide Surface: The Binding Motif Changes with Surface Coverage. Journal of Physical Chemistry Letters, 2018, 9, 1937-1943.	2.1	9
69	Atomically Defined Co₃O₄(111) Thin Films Prepared in Ultrahigh Vacuum: Stability under Electrochemical Conditions. Journal of Physical Chemistry C, 2018, 122, 7236-7248.	1.5	34
70	Dynamic equilibria in supported ionic liquid phase (SILP) catalysis: in situ IR spectroscopy identifies [Ru(CO)_xCl_y]_n species in water gas shift catalysis. Catalysis Science and Technology, 2018, 8, 344-357.	2.1	23
71	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
72	Preparation of complex model electrocatalysts in ultra-high vacuum and transfer into the electrolyte for electrochemical IR spectroscopy and other techniques. Review of Scientific Instruments, 2018, 89, 114101.	0.6	22

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73	Ptâ€“CeO2 Catalysts for Fuel Cell Applications: From Surface Science to Electrochemistry. , 2018, , 189-201.		2
74	Anchoring of carboxyl-functionalized porphyrins on MgO, TiO₂, and Co₃O₄ nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 24858-24868.	1.3	25
75	Atomically-defined model catalysts in ultrahigh vacuum and in liquid electrolytes: particle size-dependent CO adsorption on Pt nanoparticles on ordered Co₃O₄(111) films. Physical Chemistry Chemical Physics, 2018, 20, 23702-23716.	1.3	13
76	Nanoscale Morphological and Structural Transformations of PtCu Alloy Electrocatalysts during Potentiodynamic Cycling. Journal of Physical Chemistry C, 2018, 122, 21974-21982.	1.5	11
77	Thermally Activated Selfâ€metalation of Carboxyâ€functionalized Porphyrin Films on MgO Nanocubes. ChemPhysChem, 2018, 19, 2272-2280.	1.0	7
78	Dehydrogenation of Liquid Organic Hydrogen Carriers on Supported Pd Model Catalysts: Carbon Incorporation Under Operation Conditions. Catalysis Letters, 2018, 148, 2901-2910.	1.4	6
79	Phosphonic Acids on Well-Ordered CoO Surfaces: The Binding Motif Depends on the Surface Structure. Journal of Physical Chemistry C, 2018, 122, 16221-16233.	1.5	5
80	Structure-Dependent Dissociation of Water on Cobalt Oxide. Journal of Physical Chemistry Letters, 2018, 9, 2763-2769.	2.1	44
81	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
82	Electrifying model catalysts for understanding electrocatalytic reactions in liquid electrolytes. Nature Materials, 2018, 17, 592-598.	13.3	89
83	ZnO Nanoparticle Formation from the Molecular Precursor [MeZnOtBu]₄ by Ozone Treatment in Ionic Liquids: inâ€situ Vibrational Spectroscopy in an Ultrahigh Vacuum Environment. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 31-40.	0.6	5
84	Redox-mediated conversion of atomically dispersed platinum to sub-nanometer particles. Journal of Materials Chemistry A, 2017, 5, 9250-9261.	5.2	11
85	Coverage-Dependent Anchoring of 4,4â€²-Biphenyl Dicarboxylic Acid to CoO(111) Thin Films. Langmuir, 2017, 33, 4178-4188.	1.6	13
86	Anchoring of a Carboxyl-Functionalized Norbornadiene Derivative to an Atomically Defined Cobalt Oxide Surface. Journal of Physical Chemistry C, 2017, 121, 11508-11518.	1.5	13
87	An operando DRIFTS-MS study of NH3 removal by supported ionic liquid phase (SILP) materials. Separation and Purification Technology, 2017, 174, 245-250.	3.9	9
88	Catalytically Triggered Energy Release from Strained Organic Molecules: The Surface Chemistry of Quadricyclane and Norbornadiene on Pt(111). Chemistry - A European Journal, 2017, 23, 1613-1622.	1.7	31
89	Photochemical Energy Storage and Electrochemically Triggered Energy Release in the Norbornadieneâ€“Quadricyclane System: UVâ€Photochemistry and IR Spectroelectrochemistry in a Combined Experiment. Journal of Physical Chemistry Letters, 2017, 8, 2819-2825.	2.1	56
90	Gluing Ionic Liquids to Oxide Surfaces: Chemical Anchoring of Functionalized Ionic Liquids by Vapor Deposition onto Cobalt(II) Oxide. Angewandte Chemie - International Edition, 2017, 56, 9072-9076.	7.2	16

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91	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
92	Gluing Ionic Liquids to Oxide Surfaces: Chemical Anchoring of Functionalized Ionic Liquids by Vapor Deposition onto Cobalt(II) Oxide. Angewandte Chemie, 2017, 129, 9200-9204.	1.6	8
93	Interaction of Esterâ€Functionalized Ionic Liquids with Atomicallyâ€Defined Cobalt Oxides Surfaces: Adsorption, Reaction and Thermal Stability. ChemPhysChem, 2017, 18, 3443-3453.	1.0	13
94	Model Catalytic Studies of Novel Liquid Organic Hydrogen Carriers: Indole, Indoline and Octahydroindole on Pt(111). Chemistry - A European Journal, 2017, 23, 14806-14818.	1.7	24
95	Structural transformations and adsorption properties of PtNi nanoalloy thin film electrocatalysts prepared by magnetron co-sputtering. Electrochimica Acta, 2017, 251, 427-441.	2.6	15
96	Dissociative Adsorption of Benzoic Acid on Well-Ordered Cobalt Oxide Surfaces: Role of the Protons. Journal of Physical Chemistry C, 2017, 121, 28317-28327.	1.5	16
97	KOH-promoted Pt/Al2O3 catalysts for water gas shift and methanol steam reforming: An operando DRIFTS-MS study. Applied Catalysis B: Environmental, 2017, 201, 169-181.	10.8	77
98	Palladiumâ€Mediated Ethylation of the Imidazolium Cation Monitored In Operando on a Solid Catalyst with Ionic Liquid Layer. ChemCatChem, 2017, 9, 109-113.	1.8	14
99	Atomic Ordering and Sn Segregation in Ptâ€“Sn Nanoalloys Supported on CeO2 Thin Films. Topics in Catalysis, 2017, 60, 522-532.	1.3	11
100	Structureâ€Dependent Anchoring of Organic Molecules to Atomically Defined Oxide Surfaces: Phthalic Acid on Co₃O₄(111), CoO(100), and CoO(111). Chemistry - A European Journal, 2016, 22, 5384-5396.	1.7	23
101	The surface structure matters: thermal stability of phthalic acid anchored to atomically-defined cobalt oxide films. Physical Chemistry Chemical Physics, 2016, 18, 10419-10427.	1.3	35
102	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
103	Steering the formation of supported Ptâ€“Sn nanoalloys by reactive metalâ€“oxide interaction. RSC Advances, 2016, 6, 85688-85697.	1.7	5
104	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
105	Ionic-Liquid-Modified Hybrid Materials Prepared by Physical Vapor Codeposition: Cobalt and Cobalt Oxide Nanoparticles in [C1C2Im][OTf] Monitored by In Situ IR Spectroscopy. Langmuir, 2016, 32, 8613-8622.	1.6	10
106	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
107	Adsorption, Ordering, and Metalation of Porphyrins on MgO Nanocube Surfaces: The Directional Role of Carboxylic Anchoring Groups. Journal of Physical Chemistry C, 2016, 120, 26879-26888.	1.5	20
108	Energy Storage in Strained Organic Molecules: (Spectro)Electrochemical Characterization of Norbornadiene and Quadricyclane. ChemSusChem, 2016, 9, 1424-1432.	3.6	55

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109	Ligand Effects at Ionic Liquid-Modified Interfaces: Coadsorption of [C₂C₁Im][OTf] and CO on Pd(111). Journal of Physical Chemistry C, 2016, 120, 4453-4465.	1.5	37
110	Counting electrons on supported nanoparticles. Nature Materials, 2016, 15, 284-288.	13.3	469
111	Dicyclohexylmethane as a Liquid Organic Hydrogen Carrier: A Model Study on the Dehydrogenation Mechanism over Pd(111). Catalysis Letters, 2016, 146, 851-860.	1.4	19
112	Regeneration of LOHC dehydrogenation catalysts: In-situ IR spectroscopy on single crystals, model catalysts, and real catalysts from UHV to near ambient pressure. Applied Surface Science, 2016, 360, 671-683.	3.1	31
113	Functionalized Porphyrins on an Atomically Defined Oxide Surface: Anchoring and Coverage-Dependent Reorientation of MCTPP on Co₃O₄(111). Journal of Physical Chemistry Letters, 2016, 7, 555-560.	2.1	28
114	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
115	Ionic Liquid-Modified Electrocatalysts: The Interaction of [C 1 C 2 Im][OTf] with Pt(1 1 1) and its Influence on Methanol Oxidation Studied by Electrochemical IR Spectroscopy. Electrochimica Acta, 2016, 188, 825-836.	2.6	38
116	Sensitivity of CO oxidation toward metal oxidation state in ceria-supported catalysts: an operando DRIFTS-MS study. Catalysis Science and Technology, 2016, 6, 818-828.	2.1	25
117	Organic linkers on oxide surfaces: Adsorption and chemical bonding of phthalic anhydride on MgO(100). Surface Science, 2016, 646, 90-100.	0.8	7
118	Molecular Orientation and Structural Transformations in Phthalic Anhydride Thin Films on MgO(100)/Ag(100). Langmuir, 2015, 31, 7806-7814.	1.6	16
119	Decomposition of Acetic Acid on Model Pt/CeO₂ Catalysts: The Effect of Surface Crowding. Journal of Physical Chemistry C, 2015, 119, 13721-13734.	1.5	13
120	Adsorption and Activation of CO on Co₃O₄(111) Thin Films. Journal of Physical Chemistry C, 2015, 119, 16688-16699.	1.5	72
121	Characterization of thin CeO2 films electrochemically deposited on HOPG. Applied Surface Science, 2015, 350, 142-148.	3.1	18
122	Pd Nanoparticle Formation in Ionic Liquid Thin Films Monitored by in situ Vibrational Spectroscopy. Langmuir, 2015, 31, 12126-12139.	1.6	17
123	Benzoic Acid and Phthalic Acid on Atomically Well-Defined MgO(100) Thin Films: Adsorption, Interface Reaction, and Thin Film Growth. Journal of Physical Chemistry C, 2015, 119, 26968-26979.	1.5	22
124	Porphyrin Metalation at the MgO Nanocube/Toluene Interface. ACS Applied Materials & Interfaces, 2015, 7, 22962-22969.	4.0	30
125	Thermal evolution of cobalt deposits on Co₃O₄(111): atomically dispersed cobalt, two-dimensional CoO islands, and metallic Co nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 23538-23546.	1.3	19
126	Surface Reactions of Dicyclohexylmethane on Pt(111). Journal of Physical Chemistry C, 2015, 119, 20299-20311.	1.5	27

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127	Supported homogeneous catalyst makes its own liquid phase. Journal of Catalysis, 2015, 321, 32-38.	3.1	27
128	Alkyl chain length-dependent surface reaction of dodecahydro-N-alkylcarbazoles on Pt model catalysts. Journal of Chemical Physics, 2014, 140, 204711.	1.2	20
129	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
130	The Mechanism of Hydrocarbon Oxygenate Reforming: Cï¿C Bond Scission, Carbon Formation, and Nobleâ€Metalâ€Free Oxide Catalysts. ChemSusChem, 2014, 7, 77-81.	3.6	11
131	Insights in Reaction Mechanistics: Isotopic Exchange during the Metalation of Deuterated Tetraphenyl-21,23D-porphyrin on Cu(111). Journal of Physical Chemistry C, 2014, 118, 26729-26736.	1.5	47
132	Methanol Steam Reforming Promoted by Molten Saltâ€Modified Platinum on Alumina Catalysts. ChemSusChem, 2014, 7, 2516-2526.	3.6	19
133	Model Catalytic Studies of Liquid Organic Hydrogen Carriers: Dehydrogenation and Decomposition Mechanisms of Dodecahydro-N-ethylcarbazole on Pt(111). ACS Catalysis, 2014, 4, 657-665.	5.5	106
134	Interactions Between the Room-Temperature Ionic Liquid [C₂C₁Im][OTf] and Pd(111), Well-Ordered Al₂O₃, and Supported Pd Model Catalysts from IR Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 3188-3193.	1.5	43
135	Liquid Organic Hydrogen Carriers: Surface Science Studies of Carbazole Derivatives. Chemical Record, 2014, 14, 879-896.	2.9	36
136	Interface Controls Spontaneous Crystallization in Thin Films of the Ionic Liquid [C₂C₁Im][OTf] on Atomically Clean Pd(111). Langmuir, 2014, 30, 6846-6851.	1.6	22
137	Hydrogen activation on Ptâ€“Sn nanoalloys supported on mixed Snâ€“Ce oxide films. Physical Chemistry Chemical Physics, 2014, 16, 13209.	1.3	8
138	Size and Structure Effects Controlling the Stability of the Liquid Organic Hydrogen Carrier Dodecahydro-N-ethylcarbazole during Dehydrogenation over Pt Model Catalysts. Journal of Physical Chemistry Letters, 2014, 5, 1498-1504.	2.1	69
139	Maximum Nobleâ€Metal Efficiency in Catalytic Materials: Atomically Dispersed Surface Platinum. Angewandte Chemie - International Edition, 2014, 53, 10525-10530.	7.2	384
140	Role of Oxygen in Acetic Acid Decomposition on Pt(111). Journal of Physical Chemistry C, 2014, 118, 14316-14325.	1.5	16
141	Near ambient pressure XPS investigation of the interaction of ethanol with Co/CeO2(111). Journal of Catalysis, 2013, 307, 132-139.	3.1	105
142	Epitaxial Cubic Ce₂O₃ Films via Ceâ€“CeO₂ Interfacial Reaction. Journal of Physical Chemistry Letters, 2013, 4, 866-871.	2.1	99
143	Interactions of Imidazoliumâ€Based Ionic Liquids with Oxide Surfaces Controlled by Alkyl Chain Functionalization. ChemPhysChem, 2013, 14, 3673-3677.	1.0	22
144	Methane Oxidation Over Pd Supported on Ceriaâ€“Alumina Under Rich/Lean Cycling Conditions. Topics in Catalysis, 2013, 56, 410-415.	1.3	26

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145	Enhanced Activity and Selectivity in Catalytic Methanol Steam Reforming by Basic Alkali Metal Salt Coatings. Angewandte Chemie - International Edition, 2013, 52, 5028-5032.	7.2	43
146	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
147	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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