

# Sanjaya D Senanayake

## List of Publications by Year in descending order

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217  
papers

14,128  
citations

20817

60  
h-index

24258

110  
g-index

232  
all docs

232  
docs citations

232  
times ranked

14138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of operating parameters on H <sub>2</sub> /CO <sub>2</sub> conversion to methanol over Cu-Zn oxide supported on ZrO <sub>2</sub> polymorph catalysts: Characterization and kinetics. <i>Chemical Engineering Journal</i> , 2022, 427, 130947.	12.7	29
2	CO <sub>2</sub> -assisted ethane aromatization over zinc and phosphorous modified ZSM-5 catalysts. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120956.	20.2	21
3	Utilizing bimetallic catalysts to mitigate coke formation in dry reforming of methane. <i>Journal of Energy Chemistry</i> , 2022, 68, 124-142.	12.9	41
4	Infrared reflection absorption spectroscopy and temperature-programmed desorption studies of CO adsorption on Ni/CeO <sub>2</sub> (111) thin films: The role of the ceria support. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 013209.	2.1	0
5	Understanding the Surface Structure and Catalytic Activity of SnO <sub>2</sub> /Au(111) Inverse Catalysts for CO <sub>2</sub> and H <sub>2</sub> Activation. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4862-4870.	3.1	5
6	In Situ Studies of Methane Activation Using Synchrotron-Based Techniques: Guiding the Conversion of C-H Bonds. <i>ACS Catalysis</i> , 2022, 12, 5470-5488.	11.2	8
7	Investigating the Elusive Nature of Atomic O from CO <sub>2</sub> Dissociation on Pd(111): The Role of Surface Hydrogen. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7870-7879.	3.1	1
8	Tuning Selectivity in the Direct Conversion of Methane to Methanol: Bimetallic Synergistic Effects on the Cleavage of C-H and O-H Bonds over NiCu/CeO <sub>2</sub> Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5589-5596.	4.6	6
9	Mechanistic Investigations of Gas-Phase Catalytic Hydrogenation in Metal-Organic Frameworks: Cooperative Activity of the Metal and Linker Sites in Cu/Rh(BTC). <i>Journal of Physical Chemistry C</i> , 2022, 126, 11553-11565.	3.1	3
10	The Role of Electron Localization in Covalency and Electrochemical Properties of Lithium-Ion Battery Cathode Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2001633.	14.9	21
11	Highly active Ni/CeO <sub>2</sub> catalyst for CO <sub>2</sub> methanation: Preparation and characterization. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119581.	20.2	154
12	Modulation of the Effective Metal-Support Interactions for the Selectivity of Ceria Supported Noble Metal Nanoclusters in Atmospheric CO <sub>2</sub> Hydrogenation. <i>ChemCatChem</i> , 2021, 13, 874-881.	3.7	11
13	Methane oxidation activity and nanoscale characterization of Pd/CeO <sub>2</sub> catalysts prepared by dry milling Pd acetate and ceria. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119567.	20.2	61
14	Growth, sintering, and chemical states of Co supported on reducible CeO <sub>2</sub> (111) thin films: The effects of the metal coverage and the nature of the support. <i>Journal of Chemical Physics</i> , 2021, 154, 044704.	3.0	1
15	Substoichiometric Tuning of the Electronic Properties of Titania. <i>Thin Solid Films</i> , 2021, 717, 138437.	1.8	6
16	Planar defect-driven electrocatalysis of CO <sub>2</sub> -to-C <sub>2</sub> H <sub>4</sub> conversion. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19932-19939.	10.3	15
17	Surface characterization and methane activation on SnO <sub>2</sub> /Cu <sub>2</sub> O/Cu(111) inverse oxide/metal catalysts. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17186-17196.	2.8	10
18	Dynamic structure of active sites in ceria-supported Pt catalysts for the water gas shift reaction. <i>Nature Communications</i> , 2021, 12, 914.	12.8	103

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19	Understanding Methanol Synthesis on Inverse ZnO/CuO/Cu Catalysts: Stability of CH <sub>3</sub> O Species and Dynamic Nature of the Surface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6673-6683.	3.1	21
20	Reaction Pathway for Coke-Free Methane Steam Reforming on a Ni/CeO <sub>2</sub> Catalyst: Active Sites and the Role of Metal-Support Interactions. <i>ACS Catalysis</i> , 2021, 11, 8327-8337.	11.2	39
21	Adsorption and activation of CO <sub>2</sub> on Pt/CeO <sub>x</sub> /TiO <sub>2</sub> (110): Role of the Pt-CeO <sub>x</sub> interface. <i>Surface Science</i> , 2021, 710, 121852.	1.9	5
22	Surface structure of mass-selected niobium oxide nanoclusters on Au(111). <i>Nanotechnology</i> , 2021, 32, 475601.	2.6	7
23	Effect of Ni particle size on the production of renewable methane from CO <sub>2</sub> over Ni/CeO <sub>2</sub> catalyst. <i>Journal of Energy Chemistry</i> , 2021, 61, 602-611.	12.9	51
24	Metal-Support Interactions and C1 Chemistry: Transforming Pt-CeO <sub>2</sub> into a Highly Active and Stable Catalyst for the Conversion of Carbon Dioxide and Methane. <i>ACS Catalysis</i> , 2021, 11, 1613-1623.	11.2	39
25	In Situ Studies of Methanol Decomposition Over Cu(111) and Cu <sub>2</sub> O/Cu(111): Effects of Reactant Pressure, Surface Morphology, and Hot Spots of Active Sites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 558-571.	3.1	18
26	CO <sub>2</sub> Hydrogenation on ZrO <sub>2</sub> /Cu(111) Surfaces: Production of Methane and Methanol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 18900-18906.	3.7	16
27	Aliovalent Doping of CeO <sub>2</sub> Improves the Stability of Atomically Dispersed Pt. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 52736-52742.	8.0	11
28	Selective Methane Oxidation to Methanol on ZnO/Cu <sub>2</sub> O/Cu(111) Catalysts: Multiple Site-Dependent Behaviors. <i>Journal of the American Chemical Society</i> , 2021, 143, 19018-19032.	13.7	41
29	Reversing sintering effect of Ni particles on $\gamma$ -Mo <sub>2</sub> N via strong metal support interaction. <i>Nature Communications</i> , 2021, 12, 6978.	12.8	58
30	Structure and Chemical State of Cesium on Well-Defined Cu(111) and Cu <sub>2</sub> O/Cu(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3107-3121.	3.1	16
31	Effects of Zr Doping into Ceria for the Dry Reforming of Methane over Ni/CeZrO <sub>2</sub> Catalysts: In Situ Studies with XRD, XAFS, and AP-XPS. <i>ACS Catalysis</i> , 2020, 10, 3274-3284.	11.2	107
32	Multimodal Characterization of Materials and Decontamination Processes for Chemical Warfare Protection. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14721-14738.	8.0	21
33	Breaking Simple Scaling Relations through Metal-Oxide Interactions: Understanding Room-Temperature Activation of Methane on M/CeO <sub>2</sub> (M = Pt, Ni, or Co) Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9131-9137.	4.6	27
34	In situ structural study of manganese and iron oxide promoted rhodium catalysts for oxygenate synthesis. <i>Applied Catalysis A: General</i> , 2020, 608, 117845.	4.3	8
35	Low Temperature Activation of Methane on Metal-Oxides and Complex Interfaces: Insights from Surface Science. <i>Accounts of Chemical Research</i> , 2020, 53, 1488-1497.	15.6	66
36	Hydrogenation of CO <sub>2</sub> to Methanol on a Au <sup>+</sup> /In <sub>2</sub> O <sub>3</sub> Catalyst. <i>ACS Catalysis</i> , 2020, 10, 11307-11317.	11.2	142

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37	Interfacial Active Sites for CO <sub>2</sub> Assisted Selective Cleavage of C-C/H Bonds in Ethane. <i>CheM</i> , 2020, 6, 2703-2716.	11.7	57
38	Deciphering Dynamic Structural and Mechanistic Complexity in Cu/CeO <sub>2</sub> /ZSM-5 Catalysts for the Reverse Water-Gas Shift Reaction. <i>ACS Catalysis</i> , 2020, 10, 10216-10228.	11.2	39
39	Direct Identification of Mixed-Metal Centers in Metal-Organic Frameworks: Cu <sub>3</sub> (BTC) <sub>2</sub> Transmetalated with Rh <sup>2+</sup> Ions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8138-8144.	4.6	16
40	Capture and Decomposition of the Nerve Agent Simulant, DMCP, Using the Zeolitic Imidazolate Framework (ZIF-8). <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 58326-58338.	8.0	22
41	Template-free fabrication of fractal porous Y <sub>2</sub> O <sub>3</sub> monolithic foam and its functional modification by Ni-doping. <i>Science China Materials</i> , 2020, 63, 1842-1847.	6.3	0
42	Insights into the methanol synthesis mechanism via CO <sub>2</sub> hydrogenation over Cu-ZnO-ZrO <sub>2</sub> catalysts: Effects of surfactant/Cu-Zn-Zr molar ratio. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 41, 101215.	6.8	51
43	Studies of CO <sub>2</sub> hydrogenation over cobalt/ceria catalysts with <i>in situ</i> characterization: the effect of cobalt loading and metal-support interactions on the catalytic activity. <i>Catalysis Science and Technology</i> , 2020, 10, 6468-6482.	4.1	23
44	Enhancing ORR Performance of Bimetallic PdAg Electrocatalysts by Designing Interactions between Pd and Ag. <i>ACS Applied Energy Materials</i> , 2020, 3, 2342-2349.	5.1	36
45	Growth and structural studies of In/Au(111) alloys and InOx/Au(111) inverse oxide/metal model catalysts. <i>Journal of Chemical Physics</i> , 2020, 152, 054702.	3.0	6
46	Morphology and chemical behavior of model CsOx/Cu <sub>2</sub> O/Cu(111) nanocatalysts for methanol synthesis: Reaction with CO <sub>2</sub> and H <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2020, 152, 044701.	3.0	8
47	Establishing structure-sensitivity of ceria reducibility: real-time observations of surface-hydrogen interactions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5501-5507.	10.3	12
48	Water-promoted interfacial pathways in methane oxidation to methanol on a CeO <sub>2</sub> -Cu <sub>2</sub> O catalyst. <i>Science</i> , 2020, 368, 513-517.	12.6	182
49	Preparation and Structural Characterization of ZrO <sub>2</sub> /CuO <sub>x</sub> /Cu(111) Inverse Model Catalysts. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10502-10508.	3.1	12
50	Location and chemical speciation of Cu in ZSM-5 during the water-gas shift reaction. <i>Catalysis Today</i> , 2019, 323, 216-224.	4.4	14
51	Hydroxylation of ZnO/Cu(100) inverse catalysts under ambient water vapor and the water-gas shift reaction. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 454001.	2.8	8
52	Local Structure and Electronic State of Atomically Dispersed Pt Supported on Nanosized CeO <sub>2</sub> . <i>ACS Catalysis</i> , 2019, 9, 8738-8748.	11.2	70
53	Anion-mediated electronic effects in reducible oxides: Tuning the valence band of ceria via fluorine doping. <i>Journal of Chemical Physics</i> , 2019, 151, 044701.	3.0	4
54	Exploring Metal-Support Interactions To Immobilize Subnanometer Co Clusters on γ-Mo <sub>2</sub> N: A Highly Selective and Stable Catalyst for CO <sub>2</sub> Activation. <i>ACS Catalysis</i> , 2019, 9, 9087-9097.	11.2	50

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55	Selective Catalytic Chemistry at Rhodium(II) Nodes in Bimetallic Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2019, 131, 16685-16689.	2.0	7
56	Selective Catalytic Chemistry at Rhodium(II) Nodes in Bimetallic Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16533-16537.	13.8	29
57	Water-Gas Shift Reaction on K/Cu(111) and Cu/K/TiO <sub>2</sub> (110) Surfaces: Alkali Promotion of Water Dissociation and Production of H <sub>2</sub> . <i>ACS Catalysis</i> , 2019, 9, 10751-10760.	11.2	38
58	Conversion of CO <sub>2</sub> on a highly active and stable Cu/FeO <sub>x</sub> /CeO <sub>2</sub> catalyst: tuning catalytic performance by oxide-oxide interactions. <i>Catalysis Science and Technology</i> , 2019, 9, 3735-3742.	4.1	28
59	Correlated Multimodal Approach Reveals Key Details of Nerve-Agent Decomposition by Single-Site Zr-Based Polyoxometalates. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2295-2299.	4.6	23
60	Highly Active Ceria-Supported Ru Catalyst for the Dry Reforming of Methane: In Situ Identification of Ru <sup>+</sup> -Ce <sup>3+</sup> Interactions for Enhanced Conversion. <i>ACS Catalysis</i> , 2019, 9, 3349-3359.	11.2	135
61	The behavior of inverse oxide/metal catalysts: CO oxidation and water-gas shift reactions over ZnO/Cu(111) surfaces. <i>Surface Science</i> , 2019, 681, 116-121.	1.9	27
62	Catalysts for the Steam Reforming of Ethanol and Other Alcohols. , 2019, , 133-158.		13
63	Subtle and reversible interactions of ambient pressure H <sub>2</sub> with Pt/Cu(111) single-atom alloy surfaces. <i>Surface Science</i> , 2019, 679, 207-213.	1.9	17
64	Modification of CO <sub>2</sub> Reduction Activity of Nanostructured Silver Electrocatalysts by Surface Halide Anions. <i>ACS Applied Energy Materials</i> , 2019, 2, 102-109.	5.1	46
65	Elucidating the roles of metallic Ni and oxygen vacancies in CO <sub>2</sub> hydrogenation over Ni/CeO <sub>2</sub> using isotope exchange and in situ measurements. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 360-366.	20.2	57
66	Nucleation, morphology, and structure of sub- $\mu\text{m}$ thin ceria islands on Rh(111). <i>Surface and Interface Analysis</i> , 2019, 51, 110-114.	1.8	0
67	XPS and NEXAFS study of the reactions of acetic acid and acetaldehyde over UO <sub>2</sub> (100) thin film. <i>Surface Science</i> , 2019, 680, 107-112.	1.9	10
68	Methane activation and conversion on well-defined metal-oxide Surfaces: <i>in situ</i> studies with synchrotron-based techniques. <i>Catalysis</i> , 2019, , 198-215.	1.0	2
69	<i>In Situ</i> Characterization of Mesoporous Co/CeO <sub>2</sub> Catalysts for the High-Temperature Water-Gas Shift. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8998-9008.	3.1	28
70	Enhanced Stability of Pt-Cu Single-Atom Alloy Catalysts: In Situ Characterization of the Pt/Cu(111) Surface in an Ambient Pressure of CO. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4488-4495.	3.1	68
71	High Activity of Au/K/TiO <sub>2</sub> (110) for CO Oxidation: Alkali-Metal-Enhanced Dispersion of Au and Bonding of CO. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4324-4330.	3.1	22
72	A New Class of Metal-Cyclam-Based Zirconium Metal-Organic Frameworks for CO <sub>2</sub> Adsorption and Chemical Fixation. <i>Journal of the American Chemical Society</i> , 2018, 140, 993-1003.	13.7	176

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73	Enhanced, robust light-driven H <sub>2</sub> generation by gallium-doped titania nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2104-2112.	2.8	23
74	In Situ Elucidation of the Active State of Co/CeO <sub>2</sub> Catalysts in the Dry Reforming of Methane: The Important Role of the Reducible Oxide Support and Interactions with Cobalt. <i>ACS Catalysis</i> , 2018, 8, 3550-3560.	11.2	80
75	Hydrogenation of CO <sub>2</sub> on ZnO/Cu(100) and ZnO/Cu(111) Catalysts: Role of Copper Structure and Metal-Oxide Interface in Methanol Synthesis. <i>Journal of Physical Chemistry B</i> , 2018, 122, 794-800.	2.6	129
76	Methanol steam reforming over Ni-CeO <sub>2</sub> model and powder catalysts: Pathways to high stability and selectivity for H <sub>2</sub> /CO <sub>2</sub> production. <i>Catalysis Today</i> , 2018, 311, 74-80.	4.4	51
77	Reaction of Methane with MO <sub>x</sub> /CeO <sub>2</sub> (M = Fe, Ni, and Cu) Catalysts: In Situ Studies with Time-Resolved X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28739-28747.	3.1	15
78	Growth, Structure, and Catalytic Properties of ZnO Grown on CuO/Cu(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26554-26562.	3.1	22
79	Structural and chemical state of doped and impregnated mesoporous Ni/CeO <sub>2</sub> catalysts for the water-gas shift. <i>Applied Catalysis A: General</i> , 2018, 567, 1-11.	4.3	10
80	Insights into CO <sub>2</sub> adsorption and chemical fixation properties of VPI-100 metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22195-22203.	10.3	17
81	In Situ Characterization of Cu/CeO <sub>2</sub> Nanocatalysts for CO <sub>2</sub> Hydrogenation: Morphological Effects of Nanostructured Ceria on the Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12934-12943.	3.1	145
82	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.	13.7	141
83	In Situ Formation of FeRh Nanoalloys for Oxygenate Synthesis. <i>ACS Catalysis</i> , 2018, 8, 7279-7286.	11.2	23
84	Imaging the ordering of a weakly adsorbed two-dimensional condensate: ambient-pressure microscopy and spectroscopy of CO <sub>2</sub> molecules on rutile TiO <sub>2</sub> (110). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13122-13126.	2.8	9
85	High selectivity of CO <sub>2</sub> hydrogenation to CO by controlling the valence state of nickel using perovskite. <i>Chemical Communications</i> , 2018, 54, 7354-7357.	4.1	49
86	Water-Gas Shift over Metal-Free Nanocrystalline Ceria: An Experimental and Theoretical Study. <i>ChemCatChem</i> , 2017, 9, 1373-1377.	3.7	13
87	Ceria-based model catalysts: fundamental studies on the importance of the metal-ceria interface in CO oxidation, the water-gas shift, CO <sub>2</sub> hydrogenation, and methane and alcohol reforming. <i>Chemical Society Reviews</i> , 2017, 46, 1824-1841.	38.1	311
88	Importance of Low Dimensional CeO <sub>x</sub> Nanostructures in Pt/CeO <sub>x</sub> -TiO <sub>2</sub> Catalysts for the Water-Gas Shift Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6635-6642.	3.1	17
89	Atomic-Level Structural Dynamics of Polyoxoniobates during DMMP Decomposition. <i>Scientific Reports</i> , 2017, 7, 773.	3.3	24
90	Interfaces in heterogeneous catalytic reactions: Ambient pressure XPS as a tool to unravel surface chemistry. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 221, 28-43.	1.7	41

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91	Cu supported on mesoporous ceria: water gas shift activity at low Cu loadings through metal-support interactions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17708-17717.	2.8	25
92	Exploiting micro-scale structural and chemical observations in real time for understanding chemical conversion: LEEM/PEEM studies over CeO <sub>2</sub> -Cu(111). <i>Ultramicroscopy</i> , 2017, 183, 84-88.	1.9	4
93	New In-Situ and Operando Facilities for Catalysis Science at NSLS-II: The Deployment of Real-Time, Chemical, and Structure-Sensitive X-ray Probes. <i>Synchrotron Radiation News</i> , 2017, 30, 30-37.	0.8	28
94	In Situ Probes of Capture and Decomposition of Chemical Warfare Agent Simulants by Zr-Based Metal Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 599-602.	13.7	169
95	Inverse Catalysts for CO Oxidation: Enhanced Oxide-Metal Interactions in MgO/Au(111), CeO <sub>2</sub> /Au(111), and TiO <sub>2</sub> /Au(111). <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10783-10791.	6.7	32
96	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.	2.0	9
97	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.	13.8	120
98	Rotating Disk Slurry Au Electrodeposition at Unsupported Carbon Vulcan XC-72 and Ce <sup>3+</sup> Impregnation for Ethanol Oxidation in Alkaline Media. <i>Electrocatalysis</i> , 2017, 8, 87-94.	3.0	4
99	Dry Reforming of Methane on a Highly Active Ni-CeO <sub>2</sub> Catalyst: Effects of Metal-Support Interactions on C-H Bond Breaking. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7455-7459.	13.8	276
100	Dry Reforming of Methane on a Highly Active Ni-CeO <sub>2</sub> Catalyst: Effects of Metal-Support Interactions on C-H Bond Breaking. <i>Angewandte Chemie</i> , 2016, 128, 7581-7585.	2.0	35
101	Hydrogen from oxygenated molecules. <i>Applied Catalysis A: General</i> , 2016, 518, 1.	4.3	0
102	Three-dimensional ruthenium-doped TiO <sub>2</sub> sea urchins for enhanced visible-light-responsive H <sub>2</sub> production. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15972-15979.	2.8	56
103	Water-gas shift reaction over gold nanoparticles dispersed on nanostructured CeO <sub>2</sub> -TiO <sub>2</sub> (110) surfaces: Effects of high ceria coverage. <i>Surface Science</i> , 2016, 650, 34-39.	1.9	13
104	Ambient pressure XPS and IRRAS investigation of ethanol steam reforming on Ni-CeO <sub>2</sub> (111) catalysts: an in situ study of C-C and O-H bond scission. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16621-16628.	2.8	83
105	Growth and characterization of epitaxially stabilized ceria(001) nanostructures on Ru(0001). <i>Nanoscale</i> , 2016, 8, 10849-10856.	5.6	22
106	Low-Temperature Conversion of Methane to Methanol on CeO <sub>2</sub> /Cu <sub>2</sub> O Catalysts: Water Controlled Activation of the C-H Bond. <i>Journal of the American Chemical Society</i> , 2016, 138, 13810-13813.	13.7	125
107	Potassium and Water Coadsorption on TiO <sub>2</sub> (110): OH-Induced Anchoring of Potassium and the Generation of Single-Site Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3866-3872.	4.6	14
108	Room-Temperature Activation of Methane and Dry Re-forming with CO <sub>2</sub> on Ni-CeO <sub>2</sub> (111) Surfaces: Effect of Ce <sup>3+</sup> Sites and Metal-Support Interactions on C-H Bond Cleavage. <i>ACS Catalysis</i> , 2016, 6, 8184-8191.	11.2	146

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109	Inverse Oxide/Metal Catalysts in Fundamental Studies and Practical Applications: A Perspective of Recent Developments. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2627-2639.	4.6	120
110	In situ growth, structure, and real-time chemical reactivity of well-defined CeO <sub>x</sub> -Ru(0001) model surfaces. <i>Applied Catalysis B: Environmental</i> , 2016, 197, 286-298.	20.2	17
111	Interfacial Cu <sup>+</sup> promoted surface reactivity: Carbon monoxide oxidation reaction over polycrystalline copper-titania catalysts. <i>Surface Science</i> , 2016, 652, 206-212.	1.9	24
112	How to stabilize highly active Cu <sup>+</sup> cations in a mixed-oxide catalyst. <i>Catalysis Today</i> , 2016, 263, 4-10.	4.4	11
113	Unraveling the Hydrogenation of TiO <sub>2</sub> and Graphene Oxide/TiO <sub>2</sub> Composites in Real Time by in Situ Synchrotron X-ray Powder Diffraction and Pair Distribution Function Analysis. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3472-3482.	3.1	16
114	Au and Pt nanoparticle supported catalysts tailored for H <sub>2</sub> production: From models to powder catalysts. <i>Applied Catalysis A: General</i> , 2016, 518, 18-47.	4.3	30
115	Visible Light-Driven H <sub>2</sub> Production over Highly Dispersed Ruthenia on Rutile TiO <sub>2</sub> Nanorods. <i>ACS Catalysis</i> , 2016, 6, 407-417.	11.2	71
116	Enhancing the reactivity of gold: Nanostructured Au(111) adsorbs CO. <i>Surface Science</i> , 2016, 650, 17-23.	1.9	7
117	Controlling Heteroepitaxy by Oxygen Chemical Potential: Exclusive Growth of (100) Oriented Ceria Nanostructures on Cu(111). <i>Journal of Physical Chemistry C</i> , 2016, 120, 4895-4901.	3.1	20
118	The Effect of the Surface Composition of Ru-Pt Bimetallic Catalysts for Methanol Oxidation. <i>Electrochimica Acta</i> , 2016, 195, 106-111.	5.2	37
119	Elucidating the interaction between Ni and CeO <sub>x</sub> in ethanol steam reforming catalysts: A perspective of recent studies over model and powder systems. <i>Applied Catalysis B: Environmental</i> , 2016, 197, 184-197.	20.2	38
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