Sanjaya D Senanayake

List of Publications by Year
in descending order

217 papers	14,128 citations	20797 60 h-index	24232 110 g-index
232 all docs	232 docs citations	232 times ranked	14138 citing authors

#	Article	IF	Citations
1	Effect of operating parameters on H2/CO2 conversion to methanol over Cu-Zn oxide supported on ZrO2 polymorph catalysts: Characterization and kinetics. Chemical Engineering Journal, 2022, 427, 130947.	6.6	29
2	CO2-assisted ethane aromatization over zinc and phosphorous modified ZSM-5 catalysts. Applied Catalysis B: Environmental, 2022, 304, 120956.	10.8	21
3	Utilizing bimetallic catalysts to mitigate coke formation in dry reforming of methane. Journal of Energy Chemistry, 2022, 68, 124-142.	7.1	41
4	Infrared reflection absorption spectroscopy and temperature-programmed desorption studies of CO adsorption on Ni/CeO2(111) thin films: The role of the ceria support. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 013209.	0.9	0
5	Understanding the Surface Structure and Catalytic Activity of SnO_{<i>x</i>}/Au(111) Inverse Catalysts for CO₂ and H₂ Activation. Journal of Physical Chemistry C, 2022, 126, 4862-4870.	1.5	5
6	In Situ Studies of Methane Activation Using Synchrotron-Based Techniques: Guiding the Conversion of Câ€"H Bonds. ACS Catalysis, 2022, 12, 5470-5488.	5.5	8
7	Investigating the Elusive Nature of Atomic O from CO₂ Dissociation on Pd(111): The Role of Surface Hydrogen. Journal of Physical Chemistry C, 2022, 126, 7870-7879.	1.5	1
8	Tuning Selectivity in the Direct Conversion of Methane to Methanol: Bimetallic Synergistic Effects on the Cleavage of Câ€"H and Oâ€"H Bonds over NiCu/CeO₂ Catalysts. Journal of Physical Chemistry Letters, 2022, 13, 5589-5596.	2.1	6
9	Mechanistic Investigations of Gas-Phase Catalytic Hydrogenation in Metalâ€"Organic Frameworks: Cooperative Activity of the Metal and Linker Sites in Cu_{<i>x</i>}Rh_{3â€"<i>x</i>}(BTC)₂. Journal of Physical Chemistry C, 2022, 126, 11553-11565.	1.5	3
10	The Role of Electron Localization in Covalency and Electrochemical Properties of Lithiumâ€Ion Battery Cathode Materials. Advanced Functional Materials, 2021, 31, 2001633.	7.8	21
11	Highly active Ni/CeO2 catalyst for CO2 methanation: Preparation and characterization. Applied Catalysis B: Environmental, 2021, 282, 119581.	10.8	154
12	Modulation of the Effective Metalâ€Support Interactions for the Selectivity of Ceria Supported Noble Metal Nanoclusters in Atmospheric CO₂ Hydrogenation. ChemCatChem, 2021, 13, 874-881.	1.8	11
13	Methane oxidation activity and nanoscale characterization of Pd/CeO2 catalysts prepared by dry milling Pd acetate and ceria. Applied Catalysis B: Environmental, 2021, 282, 119567.	10.8	61
14	Growth, sintering, and chemical states of Co supported on reducible CeO2(111) thin films: The effects of the metal coverage and the nature of the support. Journal of Chemical Physics, 2021, 154, 044704.	1.2	1
15	Substoichiometric Tuning of the Electronic Properties of Titania. Thin Solid Films, 2021, 717, 138437.	0.8	6
16	Planar defect-driven electrocatalysis of CO₂-to-C₂H₄ conversion. Journal of Materials Chemistry A, 2021, 9, 19932-19939.	5.2	15
17	Surface characterization and methane activation on SnO_{<i>x</i>}/Cu₂O/Cu(111) inverse oxide/metal catalysts. Physical Chemistry Chemical Physics, 2021, 23, 17186-17196.	1.3	10
18	Dynamic structure of active sites in ceria-supported Pt catalysts for the water gas shift reaction. Nature Communications, 2021, 12, 914.	5.8	103

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19	Understanding Methanol Synthesis on Inverse ZnO/CuO_{<i>x</i>}/Cu Catalysts: Stability of CH₃O Species and Dynamic Nature of the Surface. Journal of Physical Chemistry C, 2021, 125, 6673-6683.	1.5	21
20	Reaction Pathway for Coke-Free Methane Steam Reforming on a Ni/CeO₂ Catalyst: Active Sites and the Role of Metalâ€"Support Interactions. ACS Catalysis, 2021, 11, 8327-8337.	5.5	39
21	Adsorption and activation of CO2 on Pt/CeOx/TiO2(110): Role of the Pt-CeOx interface. Surface Science, 2021, 710, 121852.	0.8	5
22	Surface structure of mass-selected niobium oxide nanoclusters on Au(111). Nanotechnology, 2021, 32, 475601.	1.3	7
23	Effect of Ni particle size on the production of renewable methane from CO2 over Ni/CeO2 catalyst. Journal of Energy Chemistry, 2021, 61, 602-611.	7.1	51
24	Metalâ€"Support Interactions and C1 Chemistry: Transforming Pt-CeO₂ into a Highly Active and Stable Catalyst for the Conversion of Carbon Dioxide and Methane. ACS Catalysis, 2021, 11, 1613-1623.	5.5	39
25	<i>In Situ</i> Studies of Methanol Decomposition Over Cu(111) and Cu₂O/Cu(111): Effects of Reactant Pressure, Surface Morphology, and Hot Spots of Active Sites. Journal of Physical Chemistry C, 2021, 125, 558-571.	1.5	18
26	CO₂ Hydrogenation on ZrO₂/Cu(111) Surfaces: Production of Methane and Methanol. Industrial & Engineering Chemistry Research, 2021, 60, 18900-18906.	1.8	16
27	Aliovalent Doping of CeO₂ Improves the Stability of Atomically Dispersed Pt. ACS Applied Materials & Interfaces, 2021, 13, 52736-52742.	4.0	11
28	Selective Methane Oxidation to Methanol on ZnO/Cu₂O/Cu(111) Catalysts: Multiple Site-Dependent Behaviors. Journal of the American Chemical Society, 2021, 143, 19018-19032.	6.6	41
29	Reversing sintering effect of Ni particles on Î³-Mo2N via strong metal support interaction. Nature Communications, 2021, 12, 6978.	5.8	58
30	Structure and Chemical State of Cesium on Well-Defined Cu(111) and Cu₂O/Cu(111) Surfaces. Journal of Physical Chemistry C, 2020, 124, 3107-3121.	1.5	16
31	Effects of Zr Doping into Ceria for the Dry Reforming of Methane over Ni/CeZrO₂ Catalysts: In Situ Studies with XRD, XAFS, and AP-XPS. ACS Catalysis, 2020, 10, 3274-3284.	5.5	107
32	Multimodal Characterization of Materials and Decontamination Processes for Chemical Warfare Protection. ACS Applied Materials & Interfaces, 2020, 12, 14721-14738.	4.0	21
33	Breaking Simple Scaling Relations through Metalâ€"Oxide Interactions: Understanding Room-Temperature Activation of Methane on M/CeO₂ (M = Pt, Ni, or Co) Interfaces. Journal of Physical Chemistry Letters, 2020, 11, 9131-9137.	2.1	27
34	In situ structural study of manganese and iron oxide promoted rhodium catalysts for oxygenate synthesis. Applied Catalysis A: General, 2020, 608, 117845.	2.2	8
35	Low Temperature Activation of Methane on Metal-Oxides and Complex Interfaces: Insights from Surface Science. Accounts of Chemical Research, 2020, 53, 1488-1497.	7.6	66
36	Hydrogenation of CO₂ to Methanol on a Au^{Î´+}â€"In₂O_{3â€"<i>x</i>} Catalyst. ACS Catalysis, 2020, 10, 11307-11317.	5.5	142

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37	Interfacial Active Sites for CO2 Assisted Selective Cleavage of Câ€"C/Câ€"H Bonds in Ethane. CheM, 2020, 6, 2703-2716.	5.8	57
38	Deciphering Dynamic Structural and Mechanistic Complexity in Cu/CeO₂/ZSM-5 Catalysts for the Reverse Water-Gas Shift Reaction. ACS Catalysis, 2020, 10, 10216-10228.	5.5	39
39	Direct Identification of Mixed-Metal Centers in Metalâ€"Organic Frameworks: Cu₃(BTC)₂ Transmetalated with Rh²⁺ Ions. Journal of Physical Chemistry Letters, 2020, 11, 8138-8144.	2.1	16
40	Capture and Decomposition of the Nerve Agent Simulant, DMCP, Using the Zeolitic Imidazolate Framework (ZIF-8). ACS Applied Materials & Interfaces, 2020, 12, 58326-58338.	4.0	22
41	Template-free fabrication of fractal porous Y2O3 monolithic foam and its functional modification by Ni-doping. Science China Materials, 2020, 63, 1842-1847.	3.5	0
42	Insights into the methanol synthesis mechanism via CO2 hydrogenation over Cu-ZnO-ZrO2 catalysts: Effects of surfactant/Cu-Zn-Zr molar ratio. Journal of CO2 Utilization, 2020, 41, 101215.	3.3	51
43	Studies of CO₂ hydrogenation over cobalt/ceria catalysts with <i>in situ</i> characterization: the effect of cobalt loading and metalâ€"support interactions on the catalytic activity. Catalysis Science and Technology, 2020, 10, 6468-6482.	2.1	23
44	Enhancing ORR Performance of Bimetallic PdAg Electrocatalysts by Designing Interactions between Pd and Ag. ACS Applied Energy Materials, 2020, 3, 2342-2349.	2.5	36
45	Growth and structural studies of In/Au(111) alloys and InOx/Au(111) inverse oxide/metal model catalysts. Journal of Chemical Physics, 2020, 152, 054702.	1.2	6
46	Morphology and chemical behavior of model CsOx/Cu2O/Cu(111) nanocatalysts for methanol synthesis: Reaction with CO2 and H2. Journal of Chemical Physics, 2020, 152, 044701.	1.2	8
47	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
48	Water-promoted interfacial pathways in methane oxidation to methanol on a CeO ₂ -Cu ₂ O catalyst. Science, 2020, 368, 513-517.	6.0	182
49	Preparation and Structural Characterization of ZrO₂/CuO<i>_x</i>/Cu(111) Inverse Model Catalysts. Journal of Physical Chemistry C, 2020, 124, 10502-10508.	1.5	12
50	Location and chemical speciation of Cu in ZSM-5 during the water-gas shift reaction. Catalysis Today, 2019, 323, 216-224.	2.2	14
51	Hydroxylation of ZnO/Cu(1â€‰1â€‰1) inverse catalysts under ambient water vapor and the waterâ€"gas shift reaction. Journal Physics D: Applied Physics, 2019, 52, 454001.	1.3	8
52	Local Structure and Electronic State of Atomically Dispersed Pt Supported on Nanosized CeO₂. ACS Catalysis, 2019, 9, 8738-8748.	5.5	70
53	Anion-mediated electronic effects in reducible oxides: Tuning the valence band of ceria via fluorine doping. Journal of Chemical Physics, 2019, 151, 044701.	1.2	4
54	Exploring Metalâ€"Support Interactions To Immobilize Subnanometer Co Clusters on Î³â€"Mo₂N: A Highly Selective and Stable Catalyst for CO₂ Activation. ACS Catalysis, 2019, 9, 9087-9097.	5.5	50

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55	Selective Catalytic Chemistry at Rhodium(II) Nodes in Bimetallic Metalâ€“Organic Frameworks. Angewandte Chemie, 2019, 131, 16685-16689.	1.6	7
56	Selective Catalytic Chemistry at Rhodium(II) Nodes in Bimetallic Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2019, 58, 16533-16537.	7.2	29
57	Waterâ€“Gas Shift Reaction on K/Cu(111) and Cu/K/TiO₂(110) Surfaces: Alkali Promotion of Water Dissociation and Production of H₂. ACS Catalysis, 2019, 9, 10751-10760.	5.5	38
58	Conversion of CO₂ on a highly active and stable Cu/FeO_x/CeO₂ catalyst: tuning catalytic performance by oxide-oxide interactions. Catalysis Science and Technology, 2019, 9, 3735-3742.	2.1	28
59	Correlated Multimodal Approach Reveals Key Details of Nerve-Agent Decomposition by Single-Site Zr-Based Polyoxometalates. Journal of Physical Chemistry Letters, 2019, 10, 2295-2299.	2.1	23
60	Highly Active Ceria-Supported Ru Catalyst for the Dry Reforming of Methane: In Situ Identification of Ru^{Î´+}â€“Ce³⁺ Interactions for Enhanced Conversion. ACS Catalysis, 2019, 9, 3349-3359.	5.5	135
61	The behavior of inverse oxide/metal catalysts: CO oxidation and water-gas shift reactions over ZnO/Cu(111) surfaces. Surface Science, 2019, 681, 116-121.	0.8	27
62	Catalysts for the Steam Reforming of Ethanol and Other Alcohols. , 2019, , 133-158.		13
63	Subtle and reversible interactions of ambient pressure H2 with Pt/Cu(111) single-atom alloy surfaces. Surface Science, 2019, 679, 207-213.	0.8	17
64	Modification of CO₂ Reduction Activity of Nanostructured Silver Electrocatalysts by Surface Halide Anions. ACS Applied Energy Materials, 2019, 2, 102-109.	2.5	46
65	Elucidating the roles of metallic Ni and oxygen vacancies in CO2 hydrogenation over Ni/CeO2 using isotope exchange and in situ measurements. Applied Catalysis B: Environmental, 2019, 245, 360-366.	10.8	57
66	Nucleation, morphology, and structure of subâ€nm thin ceria islands on Rh(111). Surface and Interface Analysis, 2019, 51, 110-114.	0.8	0
67	XPS and NEXAFS study of the reactions of acetic acid and acetaldehyde over UO2(100) thin film. Surface Science, 2019, 680, 107-112.	0.8	10
68	Methane activation and conversion on well-defined metal-oxide Surfaces: <i>in situ</i> studies with synchrotron-based techniques. Catalysis, 2019, , 198-215.	0.6	2
69	<i>In Situ</i> Characterization of Mesoporous Co/CeO₂ Catalysts for the High-Temperature Water-Gas Shift. Journal of Physical Chemistry C, 2018, 122, 8998-9008.	1.5	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. Journal of Physical Chemistry C, 2018, 122, 4488-4495.	1.5	68
71	High Activity of Au/K/TiO₂(110) for CO Oxidation: Alkali-Metal-Enhanced Dispersion of Au and Bonding of CO. Journal of Physical Chemistry C, 2018, 122, 4324-4330.	1.5	22
72	A New Class of Metal-Cyclam-Based Zirconium Metalâ€“Organic Frameworks for CO₂ Adsorption and Chemical Fixation. Journal of the American Chemical Society, 2018, 140, 993-1003.	6.6	176

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73	Enhanced, robust light-driven H₂ generation by gallium-doped titania nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 2104-2112.	1.3	23
74	In Situ Elucidation of the Active State of Coâ€"CeO_{<i>x</i>} Catalysts in the Dry Reforming of Methane: The Important Role of the Reducible Oxide Support and Interactions with Cobalt. ACS Catalysis, 2018, 8, 3550-3560.	5.5	80
75	Hydrogenation of CO₂ on ZnO/Cu(100) and ZnO/Cu(111) Catalysts: Role of Copper Structure and Metalâ€"Oxide Interface in Methanol Synthesis. Journal of Physical Chemistry B, 2018, 122, 794-800.	1.2	129
76	Methanol steam reforming over Ni-CeO2 model and powder catalysts: Pathways to high stability and selectivity for H2/CO2 production. Catalysis Today, 2018, 311, 74-80.	2.2	51
77	Reaction of Methane with MO<i>_x</i>/CeO₂ (M = Fe, Ni, and Cu) Catalysts: In Situ Studies with Time-Resolved X-ray Diffraction. Journal of Physical Chemistry C, 2018, 122, 28739-28747.	1.5	15
78	Growth, Structure, and Catalytic Properties of ZnO<i>_x</i> Grown on CuO<i>_x</i>/Cu(111) Surfaces. Journal of Physical Chemistry C, 2018, 122, 26554-26562.	1.5	22
79	Structural and chemical state of doped and impregnated mesoporous Ni/CeO2 catalysts for the water-gas shift. Applied Catalysis A: General, 2018, 567, 1-11.	2.2	10
80	Insights into CO2 adsorption and chemical fixation properties of VPI-100 metalâ€"organic frameworks. Journal of Materials Chemistry A, 2018, 6, 22195-22203.	5.2	17
81	In Situ Characterization of Cu/CeO₂ Nanocatalysts for CO₂ Hydrogenation: Morphological Effects of Nanostructured Ceria on the Catalytic Activity. Journal of Physical Chemistry C, 2018, 122, 12934-12943.	1.5	145
82	Direct Conversion of Methane to Methanol on Ni-Ceria Surfaces: Metalâ€"Support Interactions and Water-Enabled Catalytic Conversion by Site Blocking. Journal of the American Chemical Society, 2018, 140, 7681-7687.	6.6	141
83	<i>In Situ</i> Formation of FeRh Nanoalloys for Oxygenate Synthesis. ACS Catalysis, 2018, 8, 7279-7286.	5.5	23
84	Imaging the ordering of a weakly adsorbed two-dimensional condensate: ambient-pressure microscopy and spectroscopy of CO₂ molecules on rutile TiO₂(110). Physical Chemistry Chemical Physics, 2018, 20, 13122-13126.	1.3	9
85	High selectivity of CO₂ hydrogenation to CO by controlling the valence state of nickel using perovskite. Chemical Communications, 2018, 54, 7354-7357.	2.2	49
86	Waterâ€Gasâ€Shift over Metalâ€Free Nanocrystalline Ceria: An Experimental and Theoretical Study. ChemCatChem, 2017, 9, 1373-1377.	1.8	13
87	Ceria-based model catalysts: fundamental studies on the importance of the metalâ€"ceria interface in CO oxidation, the waterâ€"gas shift, CO₂hydrogenation, and methane and alcohol reforming. Chemical Society Reviews, 2017, 46, 1824-1841.	18.7	311
88	Importance of Low Dimensional CeOx Nanostructures in Pt/CeOxâ€"TiO2 Catalysts for the Waterâ€"Gas Shift Reaction. Journal of Physical Chemistry C, 2017, 121, 6635-6642.	1.5	17
89	Atomic-Level Structural Dynamics of Polyoxoniobates during DMMP Decomposition. Scientific Reports, 2017, 7, 773.	1.6	24
90	Interfaces in heterogeneous catalytic reactions: Ambient pressure XPS as a tool to unravel surface chemistry. Journal of Electron Spectroscopy and Related Phenomena, 2017, 221, 28-43.	0.8	41

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91	Cu supported on mesoporous ceria: water gas shift activity at low Cu loadings through metalâ€“support interactions. Physical Chemistry Chemical Physics, 2017, 19, 17708-17717.	1.3	25
92	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.	0.8	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. Synchrotron Radiation News, 2017, 30, 30-37.	0.2	28
94	In Situ Probes of Capture and Decomposition of Chemical Warfare Agent Simulants by Zr-Based Metal Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 599-602.	6.6	169
95	Inverse Catalysts for CO Oxidation: Enhanced Oxideâ€“Metal Interactions in MgO/Au(111), CeO₂/Au(111), and TiO₂/Au(111). ACS Sustainable Chemistry and Engineering, 2017, 5, 10783-10791.	3.2	32
96	Inâ€…Situ Investigation of Methane Dry Reforming on Metal/Ceria(111) Surfaces: Metalâ€“Support Interactions and Câˆ'H Bond Activation at Low Temperature. Angewandte Chemie, 2017, 129, 13221-13226.	1.6	9
97	Inâ€…Situ Investigation of Methane Dry Reforming on Metal/Ceria(111) Surfaces: Metalâ€“Support Interactions and Câˆ'H Bond Activation at Low Temperature. Angewandte Chemie - International Edition, 2017, 56, 13041-13046.	7.2	120
98	Rotating Disk Slurry Au Electrodeposition at Unsupported Carbon Vulcan XC-72 and Ce3+ Impregnation for Ethanol Oxidation in Alkaline Media. Electrocatalysis, 2017, 8, 87-94.	1.5	4
99	Dry Reforming of Methane on a Highlyâ€Active Niâ€CeO₂ Catalyst: Effects of Metalâ€Support Interactions on Câˆ'H Bond Breaking. Angewandte Chemie - International Edition, 2016, 55, 7455-7459.	7.2	276
100	Dry Reforming of Methane on a Highlyâ€Active Niâ€CeO₂ Catalyst: Effects of Metalâ€Support Interactions on Câˆ'H Bond Breaking. Angewandte Chemie, 2016, 128, 7581-7585.	1.6	35
101	Hydrogen from oxygenated molecules. Applied Catalysis A: General, 2016, 518, 1.	2.2	0
102	Three-dimensional ruthenium-doped TiO₂ sea urchins for enhanced visible-light-responsive H₂ production. Physical Chemistry Chemical Physics, 2016, 18, 15972-15979.	1.3	56
103	Waterâ€“gas shift reaction over gold nanoparticles dispersed on nanostructured CeOxâ€“TiO2(110) surfaces: Effects of high ceria coverage. Surface Science, 2016, 650, 34-39.	0.8	13
104	Ambient pressure XPS and IRRAS investigation of ethanol steam reforming on Niâ€“CeO₂(111) catalysts: an in situ study of Câ€“C and Oâ€“H bond scission. Physical Chemistry Chemical Physics, 2016, 18, 16621-16628.	1.3	83
105	Growth and characterization of epitaxially stabilized ceria(001) nanostructures on Ru(0001). Nanoscale, 2016, 8, 10849-10856.	2.8	22
106	Low-Temperature Conversion of Methane to Methanol on CeO_{<i>x</i>}/Cu₂O Catalysts: Water Controlled Activation of the Câ€“H Bond. Journal of the American Chemical Society, 2016, 138, 13810-13813.	6.6	125
107	Potassium and Water Coadsorption on TiO₂(110): OH-Induced Anchoring of Potassium and the Generation of Single-Site Catalysts. Journal of Physical Chemistry Letters, 2016, 7, 3866-3872.	2.1	14
108	Room-Temperature Activation of Methane and Dry Re-forming with CO₂ on Ni-CeO₂(111) Surfaces: Effect of Ce³⁺ Sites and Metalâ€“Support Interactions on Câ€“H Bond Cleavage. ACS Catalysis, 2016, 6, 8184-8191.	5.5	146

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109	Inverse Oxide/Metal Catalysts in Fundamental Studies and Practical Applications: A Perspective of Recent Developments. Journal of Physical Chemistry Letters, 2016, 7, 2627-2639.	2.1	120
110	In situ growth, structure, and real-time chemical reactivity of well-defined CeOx-Ru(0001) model surfaces. Applied Catalysis B: Environmental, 2016, 197, 286-298.	10.8	17
111	Interfacial Cu+ promoted surface reactivity: Carbon monoxide oxidation reaction over polycrystalline copperâ€"titania catalysts. Surface Science, 2016, 652, 206-212.	0.8	24
112	How to stabilize highly active Cu+ cations in a mixed-oxide catalyst. Catalysis Today, 2016, 263, 4-10.	2.2	11
113	Unraveling the Hydrogenation of TiO₂ and Graphene Oxide/TiO₂ Composites in Real Time by in Situ Synchrotron X-ray Powder Diffraction and Pair Distribution Function Analysis. Journal of Physical Chemistry C, 2016, 120, 3472-3482.	1.5	16
114	Au and Pt nanoparticle supported catalysts tailored for H2 production: From models to powder catalysts. Applied Catalysis A: General, 2016, 518, 18-47.	2.2	30
115	Visible Light-Driven H₂ Production over Highly Dispersed Ruthenia on Rutile TiO₂ Nanorods. ACS Catalysis, 2016, 6, 407-417.	5.5	71
116	Enhancing the reactivity of gold: Nanostructured Au(111) adsorbs CO. Surface Science, 2016, 650, 17-23.	0.8	7
117	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
118	The Effect of the Surface Composition of Ru-Pt Bimetallic Catalysts for Methanol Oxidation. Electrochimica Acta, 2016, 195, 106-111.	2.6	37
119	Elucidating the interaction between Ni and CeOx in ethanol steam reforming catalysts: A perspective of recent studies over model and powder systems. Applied Catalysis B: Environmental, 2016, 197, 184-197.	10.8	38
120	Hydrogenation of CO₂ to Methanol on CeO_{<i>x</i>}/Cu(111) and ZnO/Cu(111) Catalysts: Role of the Metalâ€"Oxide Interface and Importance of Ce³⁺ Sites. Journal of Physical Chemistry C, 2016, 120, 1778-1784.	1.5	156
121	Frontispiece: Direct Epoxidation of Propylene over Stabilized Cu+Surface Sites on Titanium-Modified Cu2O. Angewandte Chemie - International Edition, 2015, 54, n/a-n/a.	7.2	1
122	Direct Epoxidation of Propylene over Stabilized Cu⁺ Surface Sites on Titaniumâ€Modified Cu₂O. Angewandte Chemie - International Edition, 2015, 54, 11946-11951.	7.2	62
123	Unraveling the Dynamic Nanoscale Reducibility (Ce⁴⁺ â†' Ce³⁺) of CeO<i>_x</i>â€"Ru in Hydrogen Activation. Advanced Materials Interfaces, 2015, 2, 1500314.	1.9	42
124	Frontispiz: Direct Epoxidation of Propylene over Stabilized Cu+Surface Sites on Titanium-Modified Cu2O. Angewandte Chemie, 2015, 127, n/a-n/a.	1.6	0
125	Catalytic conversion of biomass pyrolysis vapors into hydrocarbon fuel precursors. Green Chemistry, 2015, 17, 2362-2368.	4.6	76
126	The effect of Feâ€"Rh alloying on CO hydrogenation to C2+ oxygenates. Journal of Catalysis, 2015, 329, 87-94.	3.1	38

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127	Hydrogen: Unraveling the Dynamic Nanoscale Reducibility (Ce4+â†’ Ce3+) of CeOx-Ru in Hydrogen Activation (Adv. Mater. Interfaces 18/2015). Advanced Materials Interfaces, 2015, 2, n/a-n/a.	1.9	1
128	Hierarchical Heterogeneity at the CeO_{<i>x</i>}â€“TiO₂ Interface: Electronic and Geometric Structural Influence on the Photocatalytic Activity of Oxide on Oxide Nanostructures. Journal of Physical Chemistry C, 2015, 119, 2669-2679.	1.5	52
129	In Situ and Theoretical Studies for the Dissociation of Water on an Active Ni/CeO₂ Catalyst: Importance of Strong Metalâ€“Support Interactions for the Cleavage of Oâ€“H Bonds. Angewandte Chemie - International Edition, 2015, 54, 3917-3921.	7.2	205
130	Uniform 2 nm gold nanoparticles supported on iron oxides as active catalysts for CO oxidation reaction: structureâ€“activity relationship. Nanoscale, 2015, 7, 4920-4928.	2.8	47
131	The influence of nano-architectured CeO supports in RhPd/CeO2 for the catalytic ethanol steam reforming reaction. Catalysis Today, 2015, 253, 99-105.	2.2	44
132	Non-equilibrium oxidation states of zirconium during early stages of metal oxidation. Applied Physics Letters, 2015, 106, .	1.5	42
133	Effect of Chloride Anions on the Synthesis and Enhanced Catalytic Activity of Silver Nanocoral Electrodes for CO₂ Electroreduction. ACS Catalysis, 2015, 5, 5349-5356.	5.5	310
134	Low Pressure CO₂ Hydrogenation to Methanol over Gold Nanoparticles Activated on a CeO_{<i>x</i>}/TiO₂ Interface. Journal of the American Chemical Society, 2015, 137, 10104-10107.	6.6	200
135	Reduction of Nano-Cu₂O: Crystallite Size Dependent and the Effect of Nano-Ceria Support. Journal of Physical Chemistry C, 2015, 119, 17667-17672.	1.5	23
136	Pulse Studies to Decipher the Role of Surface Morphology in CuO/CeO2 Nanocatalysts for the Water Gas Shift Reaction. Catalysis Letters, 2015, 145, 808-815.	1.4	9
137	Intermediates Arising from the Waterâ€“Gas Shift Reaction over Cu Surfaces: From UHV to Near Atmospheric Pressures. Topics in Catalysis, 2015, 58, 271-280.	1.3	15
138	Hydrogenation of CO₂ to Methanol: Importance of Metalâ€“Oxide and Metalâ€“Carbide Interfaces in the Activation of CO₂. ACS Catalysis, 2015, 5, 6696-6706.	5.5	374
139	Surface Reactions of Ethanol over UO2(100) Thin Film. Journal of Physical Chemistry C, 2015, 119, 24895-24901.	1.5	3
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