Jose A Rodriguez

List of Publications by Year
in descending order

422 papers	33,782 citations	2544 96 h-index	5394 164 g-index
451 all docs	451 docs citations	451 times ranked	23627 citing authors

#	Article	IF	Citations
1	A theoretical catalytic mechanism for methanol reforming in CeO2 vs Ni/CeO2 by energy transition states profiles. Catalysis Today, 2022, 392-393, 146-153.	4.4	6
2	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.	12.7	29
3	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.	2.1	0
4	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.	3.1	5
5	Au and Pt Remain Unoxidized on a CeO₂-Based Catalyst during the Waterâ€"Gas Shift Reaction. Journal of the American Chemical Society, 2022, 144, 446-453.	13.7	31
6	In Situ Studies of Methane Activation Using Synchrotron-Based Techniques: Guiding the Conversion of Câ€"H Bonds. ACS Catalysis, 2022, 12, 5470-5488.	11.2	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.	3.1	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.	4.6	6
9	Highly active Ni/CeO2 catalyst for CO2 methanation: Preparation and characterization. Applied Catalysis B: Environmental, 2021, 282, 119581.	20.2	154
10	Not all platinum surfaces are the same: Effect of the support on fundamental properties of platinum adlayer and its implications for the activity toward hydrogen evolution reaction. Electrochimica Acta, 2021, 368, 137598.	5.2	9
11	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.	3.7	11
12	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.	20.2	61
13	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.	2.8	10
14	Spot the difference: hydrogen adsorption and dissociation on unsupported platinum and platinum-coated transition metal carbides. Physical Chemistry Chemical Physics, 2021, 23, 20255-20267.	2.8	10
15	Size and Stoichiometry Effects on the Reactivity of MoC_{<i>y</i>} Nanoparticles toward Ethylene. Journal of Physical Chemistry C, 2021, 125, 6287-6297.	3.1	5
16	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.	3.1	21
17	Assessing the Activity of Ni Clusters Supported on TiC(001) toward CO₂ and H₂ Dissociation. Journal of Physical Chemistry C, 2021, 125, 12019-12027.	3.1	15
18	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.	11.2	39

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19	Supported Molybdenum Carbide Nanoparticles as an Excellent Catalyst for CO₂ Hydrogenation. ACS Catalysis, 2021, 11, 9679-9687.	11.2	29
20	Cesium-Induced Active Sites for Câ€“C Coupling and Ethanol Synthesis from CO₂ Hydrogenation on Cu/ZnO(0001Ì…) Surfaces. Journal of the American Chemical Society, 2021, 143, 13103-13112.	13.7	47
21	Pushing Cu uphill of the volcano curve: Impact of a WC support on the catalytic activity of copper toward the hydrogen evolution reaction. International Journal of Hydrogen Energy, 2021, 46, 25092-25102.	7.1	7
22	Adsorption and activation of CO2 on Pt/CeOx/TiO2(110): Role of the Pt-CeOx interface. Surface Science, 2021, 710, 121852.	1.9	5
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.	12.9	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.	11.2	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.	3.1	18
26	Microwave-Assisted Synthesis of Cu@IrO₂ Core-Shell Nanowires for Low-Temperature Methane Conversion. ACS Applied Nano Materials, 2021, 4, 11145-11158.	5.0	7
27	CO₂ Hydrogenation on ZrO₂/Cu(111) Surfaces: Production of Methane and Methanol. Industrial & Engineering Chemistry Research, 2021, 60, 18900-18906.	3.7	16
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.	13.7	41
29	Reversing sintering effect of Ni particles on Î³-Mo2N via strong metal support interaction. Nature Communications, 2021, 12, 6978.	12.8	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.	3.1	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.	11.2	107
32	Activation of Gold on Metal Carbides: Novel Catalysts for C1 Chemistry. Frontiers in Chemistry, 2020, 7, 875.	3.6	10
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.	4.6	27
34	Low Temperature Activation of Methane on Metal-Oxides and Complex Interfaces: Insights from Surface Science. Accounts of Chemical Research, 2020, 53, 1488-1497.	15.6	66
35	Optimized Microwave-Based Synthesis of Thermally Stable Inverse Catalytic Coreâ€“shell Motifs for CO2 Hydrogenation. ACS Applied Materials & Interfaces, 2020, 12, 32591-32603.	8.0	10
36	Inverse ZrO2/Cu as a highly efficient methanol synthesis catalyst from CO2 hydrogenation. Nature Communications, 2020, 11, 5767.	12.8	197

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37	Hydrogenation of CO₂ to Methanol on a Au^{Î´+}â€“In₂O_{3â€“<i>x</i>} Catalyst. ACS Catalysis, 2020, 10, 11307-11317.	11.2	142
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.	11.2	39
39	Structural, electronic, and magnetic properties of Ni nanoparticles supported on the TiC(001) surface. Physical Chemistry Chemical Physics, 2020, 22, 26145-26154.	2.8	8
40	Nucleation and Initial Stages of Growth during the Atomic Layer Deposition of Titanium Oxide on Mesoporous Silica. Nano Letters, 2020, 20, 6884-6890.	9.1	23
41	Critical Hydrogen Coverage Effect on the Hydrogenation of Ethylene Catalyzed by Î´-MoC(001): An Ab Initio Thermodynamic and Kinetic Study. ACS Catalysis, 2020, 10, 6213-6222.	11.2	21
42	Promoting effect of tungsten carbide on the catalytic activity of Cu for CO₂ reduction. Physical Chemistry Chemical Physics, 2020, 22, 13666-13679.	2.8	16
43	Template-free fabrication of fractal porous Y2O3 monolithic foam and its functional modification by Ni-doping. Science China Materials, 2020, 63, 1842-1847.	6.3	0
44	Boosting the activity of transition metal carbides towards methane activation by nanostructuring. Physical Chemistry Chemical Physics, 2020, 22, 7110-7118.	2.8	18
45	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.	6.8	51
46	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.	4.1	23
47	Synchrotron Consortia for Catalysis and Electrocatalysis Research. Synchrotron Radiation News, 2020, 33, 2-3.	0.8	1
48	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.	3.0	6
49	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.	3.0	8
50	Water-promoted interfacial pathways in methane oxidation to methanol on a CeO ₂ -Cu ₂ O catalyst. Science, 2020, 368, 513-517.	12.6	182
51	Preparation and Structural Characterization of ZrO₂/CuO<i>_x</i>/Cu(111) Inverse Model Catalysts. Journal of Physical Chemistry C, 2020, 124, 10502-10508.	3.1	12
52	Supported Molybdenum Carbide Nanoparticles as Hot Hydrogen Reservoirs for Catalytic Applications. Journal of Physical Chemistry Letters, 2020, 11, 8437-8441.	4.6	11
53	Location and chemical speciation of Cu in ZSM-5 during the water-gas shift reaction. Catalysis Today, 2019, 323, 216-224.	4.4	14
54	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.	2.8	8

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55	Binding and activation of ethylene on tungsten carbide and platinum surfaces. Physical Chemistry Chemical Physics, 2019, 21, 17332-17342.	2.8	9
56	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.	11.2	50
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.	11.2	38
58	Kinetic Monte Carlo Simulations Unveil Synergic Effects at Work on Bifunctional Catalysts. ACS Catalysis, 2019, 9, 9117-9126.	11.2	30
59	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.	4.1	28
60	Understanding the Photocatalytic Properties of Pt/CeO_{<i>x</i>}/TiO₂: Structural Effects on Electronic and Optical Properties. ChemPhysChem, 2019, 20, 1624-1629.	2.1	8
61	CO, CO2, and H2 Interactions with (0001) and (001) Tungsten Carbide Surfaces: Importance of Carbon and Metal Sites. Journal of Physical Chemistry C, 2019, 123, 8871-8883.	3.1	30
62	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.	11.2	135
63	Room Temperature Methane Capture and Activation by Ni Clusters Supported on TiC(001): Effects of Metalâ€"Carbide Interactions on the Cleavage of the Câ€"H Bond. Journal of the American Chemical Society, 2019, 141, 5303-5313.	13.7	57
64	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.	1.9	27
65	Catalysts for the Steam Reforming of Ethanol and Other Alcohols. , 2019, , 133-158.		13
66	Technologies for control of sulfur and nitrogen compounds and particulates in coal combustion and gasification. , 2019, , 141-173.		6
67	Potassium-Promoted Reduction of Cu₂O/Cu(111) by CO. Journal of Physical Chemistry C, 2019, 123, 8057-8066.	3.1	20
68	Combining Theory and Experiment for Multitechnique Characterization of Activated CO₂ on Transition Metal Carbide (001) Surfaces. Journal of Physical Chemistry C, 2019, 123, 7567-7576.	3.1	22
69	Methane activation and conversion on well-defined metal-oxide Surfaces: <i>in situ</i> studies with synchrotron-based techniques. Catalysis, 2019, , 198-215.	1.0	2
70	<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.	3.1	28
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.	3.1	22
72	Enhanced, robust light-driven H₂ generation by gallium-doped titania nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 2104-2112.	2.8	23

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73	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.	11.2	80
74	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.	2.6	129
75	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.	4.4	51
76	Diversity of Adsorbed Hydrogen on the TiC(001) Surface at High Coverages. Journal of Physical Chemistry C, 2018, 122, 28013-28020.	3.1	17
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.	3.1	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.	3.1	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.	4.3	10
80	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.	3.1	145
81	Direct Conversion of Methane to Methanol on Ni-Ceria Surfaces: Metalâ€“Support Interactions and Water-Enabled Catalytic Conversion by Site Blocking. Journal of the American Chemical Society, 2018, 140, 7681-7687.	13.7	141
82	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.	2.8	9
83	Waterâ€Gasâ€Shift over Metalâ€Free Nanocrystalline Ceria: An Experimental and Theoretical Study. ChemCatChem, 2017, 9, 1373-1377.	3.7	13
84	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.	38.1	311
85	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.	3.1	17
86	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.	1.7	41
87	Highly active Au/Î´-MoC and Au/Î²-Mo₂C catalysts for the low-temperature water gas shift reaction: effects of the carbide metal/carbon ratio on the catalyst performance. Catalysis Science and Technology, 2017, 7, 5332-5342.	4.1	39
88	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.	2.8	25
89	Atomic-layered Au clusters on Î±-MoC as catalysts for the low-temperature water-gas shift reaction. Science, 2017, 357, 389-393.	12.6	534
90	Elucidation of Active Sites for the Reaction of Ethanol on TiO₂/Au(111). Journal of Physical Chemistry C, 2017, 121, 7794-7802.	3.1	15

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91	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.	0.8	28
92	Active sites for CO ₂ hydrogenation to methanol on Cu/ZnO catalysts. Science, 2017, 355, 1296-1299.	12.6	1,180
93	Acetylene adsorption on Î´-MoC(001), TiC(001) and ZrC(001) surfaces: a comprehensive periodic DFT study. Physical Chemistry Chemical Physics, 2017, 19, 1571-1579.	2.8	13
94	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.	6.7	32
95	Acetylene and Ethylene Adsorption on a Î²-Mo₂C(100) Surface: A Periodic DFT Study on the Role of C- and Mo-Terminations for Bonding and Hydrogenation Reactions. Journal of Physical Chemistry C, 2017, 121, 19786-19795.	3.1	22
96	Response to Comment on â€œActive sites for CO ₂ hydrogenation to methanol on Cu/ZnO catalystsâ€. Science, 2017, 357, .	12.6	37
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, 2017, 129, 13221-13226.	2.0	9
98	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.	13.8	120
99	Highly active Pt/MoC and Pt/TiC catalysts for the low-temperature water-gas shift reaction: Effects of the carbide metal/carbon ratio on the catalyst performance. Catalysis Today, 2017, 289, 47-52.	4.4	28
100	Adsorption and dissociation of molecular hydrogen on orthorhombic Î²-Mo2C and cubic Î´-MoC (001) surfaces. Surface Science, 2017, 656, 24-32.	1.9	50
101	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.	13.8	276
102	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.	2.0	35
103	Three-dimensional ruthenium-doped TiO₂ sea urchins for enhanced visible-light-responsive H₂ production. Physical Chemistry Chemical Physics, 2016, 18, 15972-15979.	2.8	56
104	Virtual Special Issue on Catalysis at the U.S. Department of Energyâ€™s National Laboratories. ACS Catalysis, 2016, 6, 3227-3235.	11.2	2
105	Ambient pressure XPS and IRRAS investigation of ethanol steam reforming on Niâ€“CeO₂(111) catalysts: an in situ study of Câ€“C and Oâ€“H bond scission. Physical Chemistry Chemical Physics, 2016, 18, 16621-16628.	2.8	83
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.	13.7	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.	4.6	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.	11.2	146

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109	Highly Active Au/Î´-MoC and Cu/Î´-MoC Catalysts for the Conversion of CO₂: The Metal/C Ratio as a Key Factor Defining Activity, Selectivity, and Stability. Journal of the American Chemical Society, 2016, 138, 8269-8278.	13.7	140
110	Inverse Oxide/Metal Catalysts in Fundamental Studies and Practical Applications: A Perspective of Recent Developments. Journal of Physical Chemistry Letters, 2016, 7, 2627-2639.	4.6	120
111	Cu Deposited on CeOx-Modified TiO₂(110): Synergistic Effects at the Metalâ€“Oxide Interface and the Mechanism of the WGS Reaction. ACS Catalysis, 2016, 6, 4608-4615.	11.2	43
112	Systematic Theoretical Study of Ethylene Adsorption on Î´-MoC(001), TiC(001), and ZrC(001) Surfaces. Journal of Physical Chemistry C, 2016, 120, 13531-13540.	3.1	19
113	How to stabilize highly active Cu+ cations in a mixed-oxide catalyst. Catalysis Today, 2016, 263, 4-10.	4.4	11
114	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.	3.1	16
115	Organic Pollutant Photodecomposition by Ag/KNbO₃ Nanocomposites: A Combined Experimental and Theoretical Study. Journal of Physical Chemistry C, 2016, 120, 2777-2786.	3.1	50
116	Au and Pt nanoparticle supported catalysts tailored for H2 production: From models to powder catalysts. Applied Catalysis A: General, 2016, 518, 18-47.	4.3	30
117	Visible Light-Driven H₂ Production over Highly Dispersed Ruthenia on Rutile TiO₂ Nanorods. ACS Catalysis, 2016, 6, 407-417.	11.2	71
118	The conversion of CO₂ to methanol on orthorhombic Î²-Mo₂C and Cu/Î²-Mo₂C catalysts: mechanism for admetal induced change in the selectivity and activity. Catalysis Science and Technology, 2016, 6, 6766-6777.	4.1	101
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.	20.2	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.	3.1	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.	13.8	1
122	Direct Epoxidation of Propylene over Stabilized Cu⁺ Surface Sites on Titaniumâ€Modified Cu₂O. Angewandte Chemie - International Edition, 2015, 54, 11946-11951.	13.8	62
123	Frontispiz: Direct Epoxidation of Propylene over Stabilized Cu+Surface Sites on Titanium-Modified Cu2O. Angewandte Chemie, 2015, 127, n/a-n/a.	2.0	0
124	Surface-Structure Sensitivity of CeO₂ Nanocrystals in Photocatalysis and Enhancing the Reactivity with Nanogold. ACS Catalysis, 2015, 5, 4385-4393.	11.2	158
125	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.	3.1	52
126	Exploring the activity of a novel Au/TiC(001) model catalyst towards CO and CO2 hydrogenation. Surface Science, 2015, 640, 141-149.	1.9	17

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127	In Situ and Theoretical Studies for the Dissociation of Water on an Active Ni/CeO₂ Catalyst: Importance of Strong Metalâ€"Support Interactions for the Cleavage of Oâ€"H Bonds. Angewandte Chemie - International Edition, 2015, 54, 3917-3921.	13.8	205
128	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.	13.7	200
129	CO Oxidation on Gold-Supported Iron Oxides: New Insights into Strong Oxideâ€"Metal Interactions. Journal of Physical Chemistry C, 2015, 119, 16614-16622.	3.1	62
130	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.	2.6	9
131	Insights into the structureâ€"photoreactivity relationships in well-defined perovskite ferroelectric KNbO₃ nanowires. Chemical Science, 2015, 6, 4118-4123.	7.4	66
132	Intermediates Arising from the Waterâ€"Gas Shift Reaction over Cu Surfaces: From UHV to Near Atmospheric Pressures. Topics in Catalysis, 2015, 58, 271-280.	2.8	15
133	The Carburization of Transition Metal Molybdates (MxMoO4, MÂ=ÂCu, Ni or Co) and the Generation of Highly Active Metal/Carbide Catalysts for CO2 Hydrogenation. Catalysis Letters, 2015, 145, 1365-1373.	2.6	52
134	Hydrogenation of CO₂ to Methanol: Importance of Metalâ€"Oxide and Metalâ€"Carbide Interfaces in the Activation of CO₂. ACS Catalysis, 2015, 5, 6696-6706.	11.2	374
135	Structure and electronic properties of Cu nanoclusters supported on Mo2C(001) and MoC(001) surfaces. Journal of Chemical Physics, 2015, 143, 114704.	3.0	25
136	Mechanistic Insights of Ethanol Steam Reforming over Niâ€"CeO_{<i>x</i>}(111): The Importance of Hydroxyl Groups for Suppressing Coke Formation. Journal of Physical Chemistry C, 2015, 119, 18248-18256.	3.1	37
137	When ruthenia met titania: achieving extraordinary catalytic activity at low temperature by nanostructuring of oxides. Physical Chemistry Chemical Physics, 2015, 17, 26813-26818.	2.8	0
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