# Jose A Rodriguez

## List of Publications by Year
in descending order

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422
papers

33,782
citations

2538

96
h-index

5364

164
g-index

451
all docs

451
docs citations

451
times ranked

23627
citing authors

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Active sites for CO <sub>2</sub> hydrogenation to methanol on Cu/ZnO catalysts. Science, 2017, 355, 1296-1299. | 6.0 | 1,180 |
| 2 | Highly active copper-ceria and copper-ceria-titania catalysts for methanol synthesis from CO <sub>2</sub>. Science, 2014, 345, 546-550. | 6.0 | 1,114 |
| 3 | Catalysts for Hydrogen Evolution from the [NiFe] Hydrogenase to the Ni2P(001) Surface:Â The Importance of Ensemble Effect. Journal of the American Chemical Society, 2005, 127, 14871-14878. | 6.6 | 1,029 |
| 4 | Nanostructured Oxides in Chemistry:â€‰ Characterization and Properties. Chemical Reviews, 2004, 104, 4063-4104. | 23.0 | 909 |
| 5 | Activity of CeO <sub> <i>x</i> </sub> and TiO <sub> <i>x</i> </sub> Nanoparticles Grown on Au(111) in the Water-Gas Shift Reaction. Science, 2007, 318, 1757-1760. | 6.0 | 906 |
| 6 | A New Type of Strong Metalâ€"Support Interaction and the Production of H<sub>2</sub> through the Transformation of Water on Pt/CeO<sub>2</sub>(111) and Pt/CeO<sub><i>x</i></sub>/TiO<sub>2</sub>(110) Catalysts. Journal of the American Chemical Society, 2012, 134, 8968-8974. | 6.6 | 682 |
| 7 | Atomic-layered Au clusters on Î±-MoC as catalysts for the low-temperature water-gas shift reaction. Science, 2017, 357, 389-393. | 6.0 | 534 |
| 8 | Reduction of CuO and Cu2O with H2: H Embedding and Kinetic Effects in the Formation of Suboxides. Journal of the American Chemical Society, 2003, 125, 10684-10692. | 6.6 | 490 |
| 9 | Water Gas Shift Reaction on Cu and Au Nanoparticles Supported on CeO2(111) and ZnO(000): Intrinsic Activity and Importance of Support Interactions. Angewandte Chemie - International Edition, 2007, 46, 1329-1332. | 7.2 | 447 |
| 10 | Fundamental studies of methanol synthesis from CO2 hydrogenation on Cu(111), Cu clusters, and Cu/ZnO(0001Ì„). Physical Chemistry Chemical Physics, 2010, 12, 9909. | 1.3 | 442 |
| 11 | In Situ Studies of the Active Sites for the Water Gas Shift Reaction over Cuâˆ'CeO2Catalysts:Â Complex Interaction between Metallic Copper and Oxygen Vacancies of Ceria. Journal of Physical Chemistry B, 2006, 110, 428-434. | 1.2 | 415 |
| 12 | Hydrogenation of CO<sub>2</sub> to Methanol: Importance of Metalâ€"Oxide and Metalâ€"Carbide Interfaces in the Activation of CO<sub>2</sub>. ACS Catalysis, 2015, 5, 6696-6706. | 5.5 | 374 |
| 13 | Reaction of NO2 with Zn and ZnO:â€‰ Photoemission, XANES, and Density Functional Studies on the Formation of NO3. Journal of Physical Chemistry B, 2000, 104, 319-328. | 1.2 | 371 |
| 14 | Experimental and Theoretical Studies on the Reaction of H2 with NiO:â€‰ Role of O Vacancies and Mechanism for Oxide Reduction. Journal of the American Chemical Society, 2002, 124, 346-354. | 6.6 | 322 |
| 15 | Ceria-based model catalysts: fundamental studies on the importance of the metalâ€"ceria interface in CO oxidation, the waterâ€"gas shift, CO<sub>2</sub>hydrogenation, and methane and alcohol reforming. Chemical Society Reviews, 2017, 46, 1824-1841. | 18.7 | 311 |
| 16 | Desulfurization Reactions on Ni2P(001) and Î±-Mo2C(001) Surfaces:Â Complex Role of P and C Sites. Journal of Physical Chemistry B, 2005, 109, 4575-4583. | 1.2 | 290 |
| 17 | Importance of the Metalâ€"Oxide Interface in Catalysis: In Situ Studies of the Waterâ€"Gas Shift Reaction by Ambientâ€Pressure Xâ€ray Photoelectron Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 5101-5105. | 7.2 | 280 |
| 18 | Inverse CeO<sub>2</sub>/CuO Catalyst As an Alternative to Classical Direct Configurations for Preferential Oxidation of CO in Hydrogen-Rich Stream. Journal of the American Chemical Society, 2010, 132, 34-35. | 6.6 | 278 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Dry Reforming of Methane on a Highlyâ€Active Niâ€CeO<sub>2</sub> Catalyst: Effects of Metalâ€Support Interactions on Câˆ’H Bond Breaking. Angewandte Chemie - International Edition, 2016, 55, 7455-7459. | 7.2 | 276 |
| 20 | Interaction of Sulfur with Well-Defined Metal and Oxide Surfaces:â€‰ Unraveling the Mysteries behind Catalyst Poisoning and Desulfurization. Accounts of Chemical Research, 1999, 32, 719-728. | 7.6 | 265 |
| 21 | Unusual Physical and Chemical Properties of Cu in Ce1-xCuxO2Oxides. Journal of Physical Chemistry B, 2005, 109, 19595-19603. | 1.2 | 262 |
| 22 | Waterâ€Gas Shift Reaction on a Highly Active Inverse CeO<sub><i>x</i></sub>/Cu(111) Catalyst: Unique Role of Ceria Nanoparticles. Angewandte Chemie - International Edition, 2009, 48, 8047-8050. | 7.2 | 262 |
| 23 | High catalytic activity of Au/CeO <sub>x</sub> /TiO <sub>2</sub> (110) controlled by the nature of the mixed-metal oxide at the nanometer level. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4975-4980. | 3.3 | 257 |
| 24 | Gold, Copper, and Platinum Nanoparticles Dispersed on CeO<sub><i>x</i></sub>/TiO<sub>2</sub>(110) Surfaces: High Water-Gas Shift Activity and the Nature of the Mixed-Metal Oxide at the Nanometer Level. Journal of the American Chemical Society, 2010, 132, 356-363. | 6.6 | 247 |
| 25 | Activation of Gold on Titania:Â Adsorption and Reaction of SO2on Au/TiO2(110). Journal of the American Chemical Society, 2002, 124, 5242-5250. | 6.6 | 242 |
| 26 | CO Oxidation on Inverse CeO<sub><i>x</i></sub>/Cu(111) Catalysts: High Catalytic Activity and Ceria-Promoted Dissociation of O<sub>2</sub>. Journal of the American Chemical Society, 2011, 133, 3444-3451. | 6.6 | 241 |
| 27 | Reduction of CuO in H2: In Situ Time-Resolved XRD Studies. Catalysis Letters, 2003, 85, 247-254. | 1.4 | 228 |
| 28 | Chemistry of NO2on Oxide Surfaces:Â Formation of NO3on TiO2(110) and NO2â†”O Vacancy Interactions. Journal of the American Chemical Society, 2001, 123, 9597-9605. | 6.6 | 226 |
| 29 | High Waterâˆ’Gas Shift Activity in TiO<sub>2</sub>(110) Supported Cu and Au Nanoparticles: Role of the Oxide and Metal Particle Size. Journal of Physical Chemistry C, 2009, 113, 7364-7370. | 1.5 | 223 |
| 30 | Water-gas-shift reaction on metal nanoparticles and surfaces. Journal of Chemical Physics, 2007, 126, 164705. | 1.2 | 216 |
| 31 | CO2 hydrogenation on Au/TiC, Cu/TiC, and Ni/TiC catalysts: Production of CO, methanol, and methane. Journal of Catalysis, 2013, 307, 162-169. | 3.1 | 214 |
| 32 | Steam Reforming of Ethanol on Ni/CeO<sub>2</sub>: Reaction Pathway and Interaction between Ni and the CeO<sub>2</sub> Support. ACS Catalysis, 2013, 3, 975-984. | 5.5 | 210 |
| 33 | In Situ and Theoretical Studies for the Dissociation of Water on an Active Ni/CeO<sub>2</sub> 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 |
| 34 | Water-Gas-Shift Reaction on Molybdenum Carbide Surfaces:â€‰ Essential Role of the Oxycarbide. Journal of Physical Chemistry B, 2006, 110, 19418-19425. | 1.2 | 202 |
| 35 | Low Pressure CO<sub>2</sub> Hydrogenation to Methanol over Gold Nanoparticles Activated on a CeO<sub><i>x</i></sub>/TiO<sub>2</sub> Interface. Journal of the American Chemical Society, 2015, 137, 10104-10107. | 6.6 | 200 |
| 36 | Properties of CeO2and Ce1-xZrxO2Nanoparticles:Â X-ray Absorption Near-Edge Spectroscopy, Density Functional, and Time-Resolved X-ray Diffraction Studies. Journal of Physical Chemistry B, 2003, 107, 3535-3543. | 1.2 | 199 |

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|---|---|---|---|
| 37 | Physical and Chemical Properties of MoP, Ni2P, and MoNiP Hydrodesulfurization Catalysts:Â Time-Resolved X-ray Diffraction, Density Functional, and Hydrodesulfurization Activity Studies. Journal of Physical Chemistry B, 2003, 107, 6276-6285. | 1.2 | 198 |
| 38 | Unique Properties of Ceria Nanoparticles Supported on Metals: Novel Inverse Ceria/Copper Catalysts for CO Oxidation and the Water-Gas Shift Reaction. Accounts of Chemical Research, 2013, 46, 1702-1711. | 7.6 | 198 |
| 39 | Inverse ZrO2/Cu as a highly efficient methanol synthesis catalyst from CO2 hydrogenation. Nature Communications, 2020, 11, 5767. | 5.8 | 197 |
| 40 | Atomic and electronic structure of molybdenum carbide phases: bulk and low Miller-index surfaces. Physical Chemistry Chemical Physics, 2013, 15, 12617. | 1.3 | 189 |
| 41 | Time-resolved Studies for the Mechanism of Reduction of Copper Oxides with Carbon Monoxide:Â Complex Behavior of Lattice Oxygen and the Formation of Suboxides. Journal of Physical Chemistry B, 2004, 108, 13667-13673. | 1.2 | 187 |
| 42 | SnO2 Nanoribbons as NO2 Sensors:â€‰ Insights from First Principles Calculations. Nano Letters, 2003, 3, 1025-1028. | 4.5 | 186 |
| 43 | Water-promoted interfacial pathways in methane oxidation to methanol on a CeO <sub>2</sub> -Cu <sub>2</sub> O catalyst. Science, 2020, 368, 513-517. | 6.0 | 182 |
| 44 | A systematic density functional theory study of the electronic structure of bulk and (001) surface of transition-metals carbides. Journal of Chemical Physics, 2005, 122, 174709. | 1.2 | 180 |
| 45 | Coverage Effects and the Nature of the Metalâˆ’Sulfur Bond in S/Au(111):Â High-Resolution Photoemission and Density-Functional Studies. Journal of the American Chemical Society, 2003, 125, 276-285. | 6.6 | 179 |
| 46 | The bending machine: CO<sub>2</sub> activation and hydrogenation on Î´-MoC(001) and Î²-Mo<sub>2</sub>C(001) surfaces. Physical Chemistry Chemical Physics, 2014, 16, 14912-14921. | 1.3 | 175 |
| 47 | Adsorption and Decomposition of H2S on MgO(100), NiMgO(100), and ZnO(0001) Surfaces:Â A First-Principles Density Functional Study. Journal of Physical Chemistry B, 2000, 104, 3630-3638. | 1.2 | 159 |
| 48 | Surface-Structure Sensitivity of CeO<sub>2</sub> Nanocrystals in Photocatalysis and Enhancing the Reactivity with Nanogold. ACS Catalysis, 2015, 5, 4385-4393. | 5.5 | 158 |
| 49 | Hydrogenation of CO<sub>2</sub> to Methanol on CeO<sub><i>x</i></sub>/Cu(111) and ZnO/Cu(111) Catalysts: Role of the Metalâ€“Oxide Interface and Importance of Ce<sup>3+</sup> Sites. Journal of Physical Chemistry C, 2016, 120, 1778-1784. | 1.5 | 156 |
| 50 | Highly active Ni/CeO2 catalyst for CO2 methanation: Preparation and characterization. Applied Catalysis B: Environmental, 2021, 282, 119581. | 10.8 | 154 |
| 51 | Unusual Physical and Chemical Properties of Ni in Ce<sub>1âˆ’<i>x</i></sub>Ni<sub><i>x</i></sub>O<sub>2âˆ’<i>y</i></sub> Oxides: Structural Characterization and Catalytic Activity for the Water Gas Shift Reaction. Journal of Physical Chemistry C, 2010, 114, 12689-12697. | 1.5 | 151 |
| 52 | 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 Metalâ€“Support Interactions on Câ€“H Bond Cleavage. ACS Catalysis, 2016, 6, 8184-8191. | 5.5 | 146 |
| 53 | Reaction of NH3 with Titania:â€‰ N-Doping of the Oxide and TiN Formation. Journal of Physical Chemistry C, 2007, 111, 1366-1372. | 1.5 | 145 |
| 54 | 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. Journal of Physical Chemistry C, 2018, 122, 12934-12943. | 1.5 | 145 |

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|---|---|---|---|
| 55 | Reaction of H2S and S2 with Metal/Oxide Surfaces:â€‰ Band-Gap Size and Chemical Reactivity. Journal of Physical Chemistry B, 1998, 102, 5511-5519. | 1.2 | 143 |
| 56 | Morphological effects of the nanostructured ceria support on the activity and stability of CuO/CeO<sub>2</sub> catalysts for the water-gas shift reaction. Physical Chemistry Chemical Physics, 2014, 16, 17183-17195. | 1.3 | 143 |
| 57 | Hydrogenation of CO<sub>2</sub> to Methanol on a Au<sup>Î´+</sup>â€“In<sub>2</sub>O<sub>3â€“<i>x</i></sub> Catalyst. ACS Catalysis, 2020, 10, 11307-11317. | 5.5 | 142 |
| 58 | 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 |
| 59 | Highly Active Au/Î´-MoC and Cu/Î´-MoC Catalysts for the Conversion of CO<sub>2</sub>: The Metal/C Ratio as a Key Factor Defining Activity, Selectivity, and Stability. Journal of the American Chemical Society, 2016, 138, 8269-8278. | 6.6 | 140 |
| 60 | Electronic Properties and Phase Transformations in CoMoO4and NiMoO4:Â XANES and Time-Resolved Synchrotron XRD Studies. Journal of Physical Chemistry B, 1998, 102, 1347-1355. | 1.2 | 138 |
| 61 | Inverse oxide/metal catalysts: A versatile approach for activity tests and mechanistic studies. Surface Science, 2010, 604, 241-244. | 0.8 | 135 |
| 62 | Highly Active Ceria-Supported Ru Catalyst for the Dry Reforming of Methane: In Situ Identification of Ru<sup>Î´+</sup>â€“Ce<sup>3+</sup> Interactions for Enhanced Conversion. ACS Catalysis, 2019, 9, 3349-3359. | 5.5 | 135 |
| 63 | Chemistry of sulfur-containing molecules on Au(): thiophene, sulfur dioxide, and methanethiol adsorption. Surface Science, 2002, 505, 295-307. | 0.8 | 133 |
| 64 | In Situ Characterization of CuFe<sub>2</sub>O<sub>4</sub> and Cu/Fe<sub>3</sub>O<sub>4</sub> Waterâˆ’Gas Shift Catalysts. Journal of Physical Chemistry C, 2009, 113, 14411-14417. | 1.5 | 133 |
| 65 | In situ studies of CeO2-supported Pt, Ru, and Ptâ€“Ru alloy catalysts for the waterâ€“gas shift reaction: Active phases and reaction intermediates. Journal of Catalysis, 2012, 291, 117-126. | 3.1 | 133 |
| 66 | Catalytic Properties of Molybdenum Carbide, Nitride and Phosphide: A Theoretical Study. Catalysis Letters, 2003, 91, 247-252. | 1.4 | 129 |
| 67 | CO<sub>2</sub> Activation and Methanol Synthesis on Novel Au/TiC and Cu/TiC Catalysts. Journal of Physical Chemistry Letters, 2012, 3, 2275-2280. | 2.1 | 129 |
| 68 | Hydrogenation of CO<sub>2</sub> 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 |
| 69 | Unraveling the Dynamic Nature of a CuO/CeO<sub>2</sub> Catalyst for CO Oxidation in <i>Operando</i>: A Combined Study of XANES (Fluorescence) and DRIFTS. ACS Catalysis, 2014, 4, 1650-1661. | 5.5 | 128 |
| 70 | N doping of TiO2(110): Photoemission and density-functional studies. Journal of Chemical Physics, 2006, 125, 094706. | 1.2 | 127 |
| 71 | Low-Temperature Conversion of Methane to Methanol on CeO<sub><i>x</i></sub>/Cu<sub>2</sub>O Catalysts: Water Controlled Activation of the Câ€“H Bond. Journal of the American Chemical Society, 2016, 138, 13810-13813. | 6.6 | 125 |
| 72 | Adsorption of carbon monoxide carbon dioxide on clean and cesium-covered copper(110). The Journal of Physical Chemistry, 1989, 93, 5238-5248. | 2.9 | 123 |

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|---|---|---|---|
| 73 | Interaction of SO2 with CeO2 and Cu/CeO2 catalysts: photoemission, XANES and TPD studies. Catalysis Letters, 1999, 62, 113-119. | 1.4 | 123 |
| 74 | 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 |
| 75 | 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 |
| 76 | Electronic and Chemical Properties of Ce0.8Zr0.2O2(111) Surfaces:Â Photoemission, XANES, Density-Functional, and NO2Adsorption Studies. Journal of Physical Chemistry B, 2001, 105, 7762-7770. | 1.2 | 118 |
| 77 | Gold-based catalysts for the waterâ€“gas shift reaction: Active sites and reaction mechanismâ˜†. Catalysis Today, 2011, 160, 3-10. | 2.2 | 118 |
| 78 | Platinum-Modulated Cobalt Nanocatalysts for Low-Temperature Aqueous-Phase Fischerâ€“Tropsch Synthesis. Journal of the American Chemical Society, 2013, 135, 4149-4158. | 6.6 | 116 |
| 79 | In situtime-resolved characterization of Auâ€“CeO2 and AuOxâ€“CeO2 catalysts during the water-gas shift reaction: Presence of Au and O vacancies in the active phase. Journal of Chemical Physics, 2005, 123, 221101. | 1.2 | 115 |
| 80 | Au â†” N Synergy and N-Doping of Metal Oxide-Based Photocatalysts. Journal of the American Chemical Society, 2008, 130, 12056-12063. | 6.6 | 115 |
| 81 | A density functional theory study of the dissociation of H2 on gold clusters: Importance of fluxionality and ensemble effects. Journal of Chemical Physics, 2006, 125, 164715. | 1.2 | 114 |
| 82 | The behavior of mixed-metal oxides: Physical and chemical properties of bulk Ce1âˆ’xTbxO2 and nanoparticles of Ce1âˆ’xTbxOy. Journal of Chemical Physics, 2004, 121, 5434-5444. | 1.2 | 113 |
| 83 | The behavior of mixed-metal oxides: Structural and electronic properties of Ce1âˆ’xCaxO2 and Ce1âˆ’xCaxO2âˆ’x. Journal of Chemical Physics, 2003, 119, 5659-5669. | 1.2 | 112 |
| 84 | Phase transformations and electronic properties in mixed-metal oxides: Experimental and theoretical studies on the behavior of NiMoO4 and MgMoO4. Journal of Chemical Physics, 2000, 112, 935-945. | 1.2 | 111 |
| 85 | Reaction of H2and H2S with CoMoO4and NiMoO4:Â TPR, XANES, Time-Resolved XRD, and Molecular-Orbital Studies. Journal of Physical Chemistry B, 1999, 103, 770-781. | 1.2 | 110 |
| 86 | Probing the reaction intermediates for the waterâ€“gas shift over inverse CeOx/Au(111) catalysts. Journal of Catalysis, 2010, 271, 392-400. | 3.1 | 110 |
| 87 | Waterâ€“Gas Shift and CO Methanation Reactions over Niâ€“CeO2(111) Catalysts. Topics in Catalysis, 2011, 54, 34-41. | 1.3 | 109 |
| 88 | High Activity of Ce<sub>1âˆ’<i>x</i></sub>Ni<sub><i>x</i></sub>O<sub>2âˆ’<i>y</i></sub> for H<sub>2</sub> Production through Ethanol Steam Reforming: Tuning Catalytic Performance through Metalâ€“Oxide Interactions. Angewandte Chemie - International Edition, 2010, 49, 9680-9684. | 7.2 | 108 |
| 89 | N Doping of Rutile TiO<sub>2</sub> (110) Surface. A Theoretical DFT Study. Journal of Physical Chemistry C, 2008, 112, 2624-2631. | 1.5 | 107 |
| 90 | Waterâ€“gas-shift reaction on a Ni2P(001) catalyst: Formation of oxy-phosphides and highly active reaction sites. Journal of Catalysis, 2009, 262, 294-303. | 3.1 | 107 |

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|---|---|---|---|
| 91 | Synchrotron Techniques for In Situ Catalytic Studies: Capabilities, Challenges, and Opportunities. ACS Catalysis, 2012, 2, 2269-2280. | 5.5 | 107 |
| 92 | 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. ACS Catalysis, 2020, 10, 3274-3284. | 5.5 | 107 |
| 93 | Chemistry of NO2 on CeO2 and MgO: Experimental and theoretical studies on the formation of NO3. Journal of Chemical Physics, 2000, 112, 9929-9939. | 1.2 | 104 |
| 94 | Effects of carbon on the stability and chemical performance of transition metal carbides:â€‚A density functional study. Journal of Chemical Physics, 2004, 120, 5414-5423. | 1.2 | 102 |
| 95 | The conversion of CO<sub>2</sub> to methanol on orthorhombic Î²-Mo<sub>2</sub>C and Cu/Î²-Mo<sub>2</sub>C catalysts: mechanism for admetal induced change in the selectivity and activity. Catalysis Science and Technology, 2016, 6, 6766-6777. | 2.1 | 101 |
| 96 | Theoretical Studies of the Adsorption of CO and C on Ni(111) and Ni/CeO<sub>2</sub>(111): Evidence of a Strong Metalâ€“Support Interaction. Journal of Physical Chemistry C, 2013, 117, 8241-8250. | 1.5 | 100 |
| 97 | Interaction of CO with OH on Au(111): HCOO, CO<sub>3</sub>, and HOCO as Key Intermediates in the Water-Gas Shift Reaction. Journal of Physical Chemistry C, 2009, 113, 19536-19544. | 1.5 | 93 |
| 98 | A theoretical insight into the catalytic effect of a mixed-metal oxide at the nanometer level: The case of the highly active metal/CeOx/TiO2(110) catalysts. Journal of Chemical Physics, 2010, 132, 104703. | 1.2 | 93 |
| 99 | Combining X-ray Absorption and X-ray Diffraction Techniques for in Situ Studies of Chemical Transformations in Heterogeneous Catalysis: Advantages and Limitations. Journal of Physical Chemistry C, 2011, 115, 17884-17890. | 1.5 | 92 |
| 100 | Activation of noble metals on metal-carbide surfaces: novel catalysts for CO oxidation, desulfurization and hydrogenation reactions. Physical Chemistry Chemical Physics, 2012, 14, 427-438. | 1.3 | 89 |
| 101 | Role of Auâˆ’C Interactions on the Catalytic Activity of Au Nanoparticles Supported on TiC(001) toward Molecular Oxygen Dissociation. Journal of the American Chemical Society, 2010, 132, 3177-3186. | 6.6 | 88 |
| 102 | The Activation of Gold and the Waterâ€“Gas Shift Reaction: Insights from Studies with Model Catalysts. Accounts of Chemical Research, 2014, 47, 773-782. | 7.6 | 87 |
| 103 | Surface Chemistry of SO2on Sn and Sn/Pt(111) Alloys:Â Effects of Metalâˆ’Metal Bonding on Reactivity toward Sulfur. Journal of the American Chemical Society, 1998, 120, 11149-11157. | 6.6 | 86 |
| 104 | Gold nanoparticles on ceria: importance of O vacancies in the activation of gold. Topics in Catalysis, 2007, 44, 73-81. | 1.3 | 85 |
| 105 | Autocatalytic Reduction of a Cu<sub>2</sub>O/Cu(111) Surface by CO: STM, XPS, and DFT Studies. Journal of Physical Chemistry C, 2010, 114, 17042-17050. | 1.5 | 84 |
| 106 | Ambient pressure XPS and IRRAS investigation of ethanol steam reforming on Niâ€“CeO<sub>2</sub>(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 |
| 107 | Reactivity of Transition Metals (Pd, Pt, Cu, Ag, Au) toward Molecular Hydrogen Dissociation: Extended Surfaces versus Particles Supported on TiC(001) or Small Is Not Always Better and Large Is Not Always Bad. Journal of Physical Chemistry C, 2011, 115, 11666-11672. | 1.5 | 82 |
| 108 | Molecular Level Study of the Formation and the Spread of MoO3on Au (111) by Scanning Tunneling Microscopy and X-ray Photoelectron Spectroscopy. Journal of the American Chemical Society, 2003, 125, 8059-8066. | 6.6 | 81 |

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|---|---|---|---|
| 109 | Catalyst size matters: Tuning the molecular mechanism of the waterâ€“gas shift reaction on titanium carbide based compounds. Journal of Catalysis, 2008, 260, 103-112. | 3.1 | 81 |
| 110 | Does CO2dissociatively adsorb on Cu surfaces?. Journal of Physics Condensed Matter, 1989, 1, SB149-SB160. | 0.7 | 80 |
| 111 | Interaction of Hydrogen and Thiophene with Ni/MoS2and Zn/MoS2Surfaces:Â A Molecular Orbital Study. Journal of Physical Chemistry B, 1997, 101, 7524-7534. | 1.2 | 80 |
| 112 | Identification of 5â€“7 Defects in a Copper Oxide Surface. Journal of the American Chemical Society, 2011, 133, 11474-11477. | 6.6 | 80 |
| 113 | In situ/operando studies for the production of hydrogen through the water-gas shift on metal oxide catalysts. Physical Chemistry Chemical Physics, 2013, 15, 12004. | 1.3 | 80 |
| 114 | In Situ Elucidation of the Active State of Coâ€“CeO<sub><i>x</i></sub> 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 |
| 115 | Reaction of SO2 with ZnO(0001Ì„)â€“O and ZnO powders: photoemission and XANES studies on the formation of SO3 and SO4. Surface Science, 1999, 442, 400-412. | 0.8 | 78 |
| 116 | Reaction of H2S with MgO(100) and Cu/MgO(100) surfaces: Band-gap size and chemical reactivity. Journal of Chemical Physics, 1999, 111, 8077-8087. | 1.2 | 77 |
| 117 | Interaction of SO2with MgO(100) and Cu/MgO(100):Â Decomposition Reactions and the Formation of SO3and SO4. Journal of Physical Chemistry B, 2000, 104, 7439-7448. | 1.2 | 77 |
| 118 | The chemical properties of bimetallic surfaces: Importance of ensemble and electronic effects in the adsorption of sulfur and SO2. Progress in Surface Science, 2006, 81, 141-189. | 3.8 | 77 |
| 119 | Fundamental Studies of Well-Defined Surfaces of Mixed-Metal Oxides: Special Properties of MO<sub>x</sub>/TiO<sub>2</sub>(110) {M = V, Ru, Ce, or W}. Chemical Reviews, 2013, 113, 4373-4390. | 23.0 | 77 |
| 120 | The bonding of sulfur to a Pt(111) surface: photoemission and molecular orbital studies. Chemical Physics Letters, 1996, 251, 13-19. | 1.2 | 76 |
| 121 | Studies on the Behavior of Mixed-Metal Oxides and Desulfurization:Â Reaction of H2S and SO2with Cr2O3(0001), MgO(100), and CrxMg1-xO(100). Journal of the American Chemical Society, 2000, 122, 12362-12370. | 6.6 | 75 |
| 122 | Effects of Hydrogen on the Reactivity of O<sub>2</sub> toward Gold Nanoparticles and Surfaces. Journal of Physical Chemistry C, 2007, 111, 19001-19008. | 1.5 | 75 |
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