

Dario J Stacchiola

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

191
papers

9,164
citations

49
h-index

89
g-index

205
ext. papers

10,075
ext. citations

7.3
avg, IF

5.98
L-index

#	Paper	IF	Citations
191	Xenon Trapping in Metal-Supported Silica Nanocages (Small 39/2021). <i>Small</i> , 2021 , 17, 2170204	11	0
190	Enhanced Catalysis under 2D Silica: A CO Oxidation Study. <i>Angewandte Chemie</i> , 2021 , 133, 10983-10989	3.6	0
189	Enhanced Catalysis under 2D Silica: A CO Oxidation Study. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10888-10894	16.4	1
188	Resolving the Evolution of Atomic Layer-Deposited Thin-Film Growth by Continuous In Situ X-Ray Absorption Spectroscopy. <i>Chemistry of Materials</i> , 2021 , 33, 1740-1751	9.6	4
187	Xenon Trapping in Metal-Supported Silica Nanocages. <i>Small</i> , 2021 , 17, e2103661	11	0
186	Surface structure of mass-selected niobium oxide nanoclusters on Au(111). <i>Nanotechnology</i> , 2021 , 32,	3.4	2
185	Nanomaterials in Operando Conditions. <i>Microscopy and Microanalysis</i> , 2020 , 26, 776-776	0.5	0
184	Reversible oxidation and reduction of gold-supported iron oxide islands at room temperature. <i>Journal of Chemical Physics</i> , 2020 , 152, 074710	3.9	7
183	Morphology and reactivity of size-selected titanium oxide nanoclusters on Au(111). <i>Journal of Chemical Physics</i> , 2020 , 152, 054714	3.9	7
182	New Role of Pd Hydride as a Sensor of Surface Pd Distributions in Pd/Au Catalysts. <i>ChemCatChem</i> , 2020 , 12, 717-721	5.2	6
181	Confinement Effects on Furfuryl Alcohol Reactions over Porous Bilayer Silica-Modified Pd(111). <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25437-25446	3.8	0
180	Multi-modal surface analysis of porous films under operando conditions. <i>AIP Advances</i> , 2020 , 10, 085109	1.5	9
179	Facilitating hydrogen atom migration via a dense phase on palladium islands to a surrounding silver surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22657-22664	11.5	16
178	Reactivity of a Zirconia-Copper Inverse Catalyst for CO ₂ Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22158-22172	3.8	14
177	Zeolite Nanosheets Stabilize Catalyst Particles to Promote the Growth of Thermodynamically Unfavorable, Small-Diameter Carbon Nanotubes. <i>Small</i> , 2020 , 16, e2002120	11	3
176	Morphology of Palladium Thin Film Deposited on a Two-Dimensional Bilayer Aluminosilicate. <i>Topics in Catalysis</i> , 2019 , 62, 1067-1075	2.3	2
175	Lithium-Chemical Synthesis of Highly Conductive 3D Mesoporous Graphene for Highly Efficient New Generation Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1445-1451	6.1	10

174	2D-(Alumino)Silicate-Noble Clathrates: Ionization-Facilitated Formation of 2D (Alumino)Silicate-Noble Gas Clathrate Compounds (Adv. Funct. Mater. 20/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970137	15.6	
173	Ultrathin Amorphous Titania on Nanowires: Optimization of Conformal Growth and Elucidation of Atomic-Scale Motifs. <i>Nano Letters</i> , 2019 , 19, 3457-3463	11.5	6
172	Selenium-sulfur (SeS) fast charging cathode for sodium and lithium metal batteries. <i>Energy Storage Materials</i> , 2019 , 20, 71-79	19.4	32
171	Room-Temperature in Vacuo Chemisorption of Xenon Atoms on Ru(0001) under Interface Confinement. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13578-13585	3.8	3
170	Ionization-Facilitated Formation of 2D (Alumino)Silicate-Noble Gas Clathrate Compounds. <i>Advanced Functional Materials</i> , 2019 , 29, 1806583	15.6	12
169	Environmental TEM Studies Reveal Catalyst/Support Registry on 2D Zeolites. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1458-1459	0.5	1
168	Porous MoxCy/SiO2 Material for CO2 Hydrogenation. <i>Topics in Catalysis</i> , 2019 , 62, 1026-1034	2.3	10
167	Potassium-Promoted Reduction of Cu2O/Cu(111) by CO. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8057-8066	3.8	15
166	First-Principles Study of Interface Structures and Charge Rearrangement at the Aluminosilicate/Ru(0001) Heterojunction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7731-7739	3.8	5
165	Design and Synthesis of 3D Potassium-Ion Pre-Intercalated Graphene for Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 3610-3616	3.9	11
164	High Activity of Au/K/TiO2(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	3.8	17
163	Stabilization of Oxidized Copper Nanoclusters in Confined Spaces. <i>Topics in Catalysis</i> , 2018 , 61, 419-427	2.3	9
162	Oxygen-Promoted Methane Activation on Copper. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 855-863	3.4	20
161	Structure of Copper-Cobalt Surface Alloys in Equilibrium with Carbon Monoxide Gas. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6575-6581	16.4	18
160	Imaging the ordering of a weakly adsorbed two-dimensional condensate: ambient-pressure microscopy and spectroscopy of CO molecules on rutile TiO(110). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13122-13126	3.6	8
159	Redox Properties of Cu2O(100) and (111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28684-28691	3.8	17
158	In Situ Probing of Ion Ordering at an Electrified Ionic Liquid/Au Interface. <i>Advanced Materials</i> , 2017 , 29, 1606357	24	9
157	Elucidation of Active Sites for the Reaction of Ethanol on TiO2/Au(111). <i>Journal of Physical Chemistry C</i> , 2017 , 121, 7794-7802	3.8	12

156	Potassium-chemical synthesis of 3D graphene from CO ₂ and its excellent performance in HTM-free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7749-7752	13	46
155	Direct conversion of CO ₂ to meso/macro-porous frameworks of surface-microporous graphene for efficient asymmetrical supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23252-23258	13	19
154	Immobilization of single argon atoms in nano-cages of two-dimensional zeolite model systems. <i>Nature Communications</i> , 2017 , 8, 16118	17.4	22
153	3D graphene from CO ₂ and K as an excellent counter electrode for dye-sensitized solar cells. <i>International Journal of Energy Research</i> , 2017 , 41, 2502-2508	4.5	10
152	Near band edge photoluminescence of ZnO nanowires: Optimization via surface engineering. <i>Applied Physics Letters</i> , 2017 , 111, 231901	3.4	10
151	Stand-alone polarization-modulation infrared reflection absorption spectroscopy instrument optimized for the study of catalytic processes at elevated pressures. <i>Review of Scientific Instruments</i> , 2017 , 88, 105109	1.7	8
150	An Ideal Electrode Material, 3D Surface-Microporous Graphene for Supercapacitors with Ultrahigh Areal Capacitance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24655-24661	9.5	65
149	Rotating Disk Slurry Au Electrodeposition at Unsupported Carbon Vulcan XC-72 and Ce ³⁺ Impregnation for Ethanol Oxidation in Alkaline Media. <i>Electrocatalysis</i> , 2017 , 8, 87-94	2.7	4
148	Energy Level Shifts at the Silica/Ru(0001) Heterojunction Driven by Surface and Interface Dipoles. <i>Topics in Catalysis</i> , 2017 , 60, 481-491	2.3	27
147	Studying two-dimensional zeolites with the tools of surface science: MFI nanosheets on Au(111). <i>Catalysis Today</i> , 2017 , 280, 283-288	5.3	11
146	Potassium and Water Coadsorption on TiO(110): OH-Induced Anchoring of Potassium and the Generation of Single-Site Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3866-3872	6.4	12
145	Inverse Oxide/Metal Catalysts in Fundamental Studies and Practical Applications: A Perspective of Recent Developments. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2627-39	6.4	86
144	Interfacial Cu ⁺ promoted surface reactivity: Carbon monoxide oxidation reaction over polycrystalline copper/titania catalysts. <i>Surface Science</i> , 2016 , 652, 206-212	1.8	17
143	Structural Changes of Cu(110) and Cu(110)-(2 × 1)-O Surfaces under Carbon Monoxide in the Torr Pressure Range Studied with Scanning Tunneling Microscopy and Infrared Reflection Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8227-8231	3.8	26
142	How to stabilize highly active Cu ⁺ cations in a mixed-oxide catalyst. <i>Catalysis Today</i> , 2016 , 263, 4-10	5.3	9
141	Visible Light-Driven H ₂ Production over Highly Dispersed Ruthenium on Rutile TiO ₂ Nanorods. <i>ACS Catalysis</i> , 2016 , 6, 407-417	13.1	63
140	Enhancing the reactivity of gold: Nanostructured Au(111) adsorbs CO. <i>Surface Science</i> , 2016 , 650, 17-23	1.8	5
139	The conversion of CO ₂ to methanol on orthorhombic Mo ₂ C and Cu/Mo ₂ C catalysts: mechanism for metal induced change in the selectivity and activity. <i>Catalysis Science and Technology</i> , 2016 , 6, 6768-6777	5.5	74

138	Hydrogenation of CO ₂ to Methanol on CeO _x /Cu(111) and ZnO/Cu(111) Catalysts: Role of the MetalOxide Interface and Importance of Ce ³⁺ Sites. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1778-1784 ^{3.8}	122
137	Dry Reforming of Methane on a Highly-Active Ni-CeO ₂ Catalyst: Effects of Metal-Support Interactions on C-H Bond Breaking. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7455-9	16.4 196
136	Dry Reforming of Methane on a Highly-Active Ni-CeO ₂ Catalyst: Effects of Metal-Support Interactions on C-H Bond Breaking. <i>Angewandte Chemie</i> , 2016 , 128, 7581-7585	3.6 23
135	Three-dimensional ruthenium-doped TiO ₂ sea urchins for enhanced visible-light-responsive H ₂ production. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15972-9	3.6 40
134	WaterGas shift reaction over gold nanoparticles dispersed on nanostructured CeO _x /TiO ₂ (110) surfaces: Effects of high ceria coverage. <i>Surface Science</i> , 2016 , 650, 34-39	1.8 11
133	Catalytic Chemistry on Oxide Nanostructures. <i>Springer Series in Materials Science</i> , 2016 , 251-280	0.9
132	Ambient pressure XPS and IRRAS investigation of ethanol steam reforming on Ni-CeO ₂ (111) catalysts: an in situ study of C-C and O-H bond scission. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16621-8	3.6 64
131	Low Pressure CO ₂ Hydrogenation to Methanol over Gold Nanoparticles Activated on a CeO(x)/TiO ₂ Interface. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10104-7	16.4 166
130	Tuning the properties of copper-based catalysts based on molecular in situ studies of model systems. <i>Accounts of Chemical Research</i> , 2015 , 48, 2151-8	24.3 33
129	Intermediates Arising from the WaterGas Shift Reaction over Cu Surfaces: From UHV to Near Atmospheric Pressures. <i>Topics in Catalysis</i> , 2015 , 58, 271-280	2.3 12
128	The Carburization of Transition Metal Molybdates (MxMoO ₄ , M = Cu, Ni or Co) and the Generation of Highly Active Metal/Carbide Catalysts for CO ₂ Hydrogenation. <i>Catalysis Letters</i> , 2015 , 145, 1365-1373 ^{2.8}	39
127	Hydrogenation of CO ₂ to Methanol: Importance of MetalOxide and MetalCarbide Interfaces in the Activation of CO ₂ . <i>ACS Catalysis</i> , 2015 , 5, 6696-6706	13.1 278
126	Cerium oxide as a promoter for the electro-oxidation reaction of ethanol: in situ XAFS characterization of the Pt nanoparticles supported on CeO ₂ nanoparticles and nanorods. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 32251-6	3.6 5
125	Formation of #Mo ₂ C below 600 °C using MoO ₂ nanoparticles as precursor. <i>Journal of Catalysis</i> , 2015 , 332, 83-94	7.3 4
124	Characterization of one-dimensional molecular chains of 4,4Rbiphenyl diisocyanide on Au(111) by scanning tunneling microscopy. <i>Journal of Chemical Physics</i> , 2015 , 142, 101901	3.9 8
123	Mechanistic Insights of Ethanol Steam Reforming over NiCeO _x (111): The Importance of Hydroxyl Groups for Suppressing Coke Formation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18248-18256	3.8 33
122	When ruthenia met titania: achieving extraordinary catalytic activity at low temperature by nanostructuring of oxides. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26813-8	3.6
121	Adsorbate-driven morphological changes on Cu(111) nano-pits. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3032-8	3.6 5

120	Isolation and characterization of formates on CeO _x /CuO/Cu(1 1 1). <i>Catalysis Today</i> , 2015 , 240, 190-200	5.3	9
119	Frontispiece: Direct Epoxidation of Propylene over Stabilized Cu ⁺ Surface Sites on Titanium-Modified Cu ₂ O. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, n/a-n/a	16.4	1
118	Direct epoxidation of propylene over stabilized Cu(+) surface sites on titanium-modified Cu ₂ O. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11946-51	16.4	49
117	Potassium-Induced Effect on the Structure and Chemical Activity of the Cu _x O/Cu(1 1 1) (x \geq 2) Surface: A Combined Scanning Tunneling Microscopy and Density Functional Theory Study. <i>ChemCatChem</i> , 2015 , 7, 3865-3872	5.2	30
116	Direct Epoxidation of Propylene over Stabilized Cu ⁺ Surface Sites on Titanium-Modified Cu ₂ O. <i>Angewandte Chemie</i> , 2015 , 127, 12114-12119	3.6	4
115	Pulsed-reactant in situ studies of ceria/CuO catalysts using simultaneous XRD, PDF and DRIFTS measurements. <i>Catalysis Today</i> , 2014 , 229, 64-71	5.3	26
114	Understanding the Role of Oxygen Vacancies in the Water Gas Shift Reaction on Ceria-Supported Platinum Catalysts. <i>ACS Catalysis</i> , 2014 , 4, 2088-2096	13.1	130
113	EDTA-Ce(III) Modified Pt Vulcan XC-72 Catalyst Synthesis for Methanol Oxidation in Acid Solution. <i>Electrocatalysis</i> , 2014 , 5, 50-61	2.7	7
112	The activation of gold and the water-gas shift reaction: insights from studies with model catalysts. <i>Accounts of Chemical Research</i> , 2014 , 47, 773-82	24.3	73
111	The Unique Properties of the Oxide-Metal Interface: Reaction of Ethanol on an Inverse Model CeO _x /Au(111) Catalyst. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25057-25064	3.8	21
110	Redox-Mediated Reconstruction of Copper during Carbon Monoxide Oxidation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15902-15909	3.8	53
109	Catalysis. Highly active copper-ceria and copper-ceria-titania catalysts for methanol synthesis from CO. <i>Science</i> , 2014 , 345, 546-50	33.3	895
108	Reactivity and mass transfer of low-dimensional catalysts. <i>Chemical Record</i> , 2014 , 14, 857-68	6.6	3
107	Synthesis of δ -MoC _{1-x} and η -MoC _y Catalysts for CO ₂ Hydrogenation by Thermal Carburization of Mo-oxide in Hydrocarbon and Hydrogen Mixtures. <i>Catalysis Letters</i> , 2014 , 144, 1418-1424	2.8	59
106	Unraveling the Dynamic Nature of a CuO/CeO ₂ Catalyst for CO Oxidation in Operando: A Combined Study of XANES (Fluorescence) and DRIFTS. <i>ACS Catalysis</i> , 2014 , 4, 1650-1661	13.1	106
105	Stabilization of catalytically active Cu ⁺ surface sites on titanium-copper mixed-oxide films. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5336-40	16.4	44
104	Mechanistic Study of CO Titration on Cu _x O/Cu(1 1 1) (x \geq 2) Surfaces. <i>ChemCatChem</i> , 2014 , 6, 2364-2372	5.2	26
103	Stabilization of Catalytically Active Cu ⁺ Surface Sites on Titanium/Copper Mixed-Oxide Films. <i>Angewandte Chemie</i> , 2014 , 126, 5440-5444	3.6	7

102	In situ/operando studies for the production of hydrogen through the water-gas shift on metal oxide catalysts. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12004-25	3.6	73
101	Assisted deprotonation of formic acid on Cu(111) and self-assembly of 1D chains. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12291-8	3.6	26
100	Importance of the metal-oxide interface in catalysis: in situ studies of the water-gas shift reaction by ambient-pressure X-ray photoelectron spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5101-5	16.4	245
99	3D Honeycomb-Like Structured Graphene and Its High Efficiency as a Counter-Electrode Catalyst for Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2013 , 125, 9380-9384	3.6	67
98	Unique properties of ceria nanoparticles supported on metals: novel inverse ceria/copper catalysts for CO oxidation and the water-gas shift reaction. <i>Accounts of Chemical Research</i> , 2013 , 46, 1702-11	24.3	162
97	3D honeycomb-like structured graphene and its high efficiency as a counter-electrode catalyst for dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9210-4	16.4	308
96	In-situ Infrared Spectroscopy on Model Catalysts 2013 , 209-239		8
95	Probing adsorption sites for CO on ceria. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15856-62	3.6	24
94	Adsorption of hydrogen on the surface and sub-surface of Cu(111). <i>Journal of Chemical Physics</i> , 2013 , 139, 044712	3.9	32
93	Selective molecular adsorption in sub-nanometer cages of a Cu ₂ O surface oxide. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10726-31	3.6	19
92	Fundamental studies of well-defined surfaces of mixed-metal oxides: special properties of MO(x)/TiO ₂ (110) {M = V, Ru, Ce, or W}. <i>Chemical Reviews</i> , 2013 , 113, 4373-90	68.1	70
91	Steam Reforming of Ethanol on Ni/CeO ₂ : Reaction Pathway and Interaction between Ni and the CeO ₂ Support. <i>ACS Catalysis</i> , 2013 , 3, 975-984	13.1	175
90	Ethanol Photoreaction on RuO _x /Ru-Modified TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11149-11158	3.8	1158
89	Surface Reduction Mechanism of Cerium-Cadmium Mixed Oxides with Enhanced Redox Properties. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8822-8831	3.8	24
88	In situ imaging of Cu ₂ O under reducing conditions: formation of metallic fronts by mass transfer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16781-4	16.4	66
87	In situ time-resolved X-ray diffraction study of the synthesis of Mo ₂ C with different carburization agents. <i>Canadian Journal of Chemistry</i> , 2013 , 91, 573-582	0.9	19
86	Electronic Metal-Support Interactions and the Production of Hydrogen Through the Water-Gas Shift Reaction and Ethanol Steam Reforming: Fundamental Studies with Well-Defined Model Catalysts. <i>Topics in Catalysis</i> , 2013 , 56, 1488-1498	2.3	51
85	NiO-MgO and CoO-MgO Thin-Film Solid Oxide Solutions on a Mo(100) Support: Formation, Reduction, and Influence of the Support. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 280-287	3.8	6

84	Importance of the MetalOxide Interface in Catalysis: In Situ Studies of the WaterGas Shift Reaction by Ambient-Pressure X-ray Photoelectron Spectroscopy. <i>Angewandte Chemie</i> , 2013 , 125, 5205-5209	3.6	30
83	Vulcan/Pt/Ce Catalysts Prepared by Impregnation Using EDTA for Direct Methanol Fuel Cell, Direct Ethanol Fuel Cell, and Polymer Electrolyte Membrane Fuel Cell. <i>Smart Grid and Renewable Energy</i> , 2013 , 04, 1-9	0.4	10
82	In situ studies of CeO ₂ -supported Pt, Ru, and PtRu alloy catalysts for the watergas shift reaction: Active phases and reaction intermediates. <i>Journal of Catalysis</i> , 2012 , 291, 117-126	7.3	114
81	A new type of strong metal-support interaction and the production of H ₂ through the transformation of water on Pt/CeO ₂ (111) and Pt/CeO(x)/TiO ₂ (110) catalysts. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8968-74	16.4	536
80	Reactivity and Morphology of Oxygen-Modified Au Surfaces. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18292-18299	3.8	12
79	Special Chemical Properties of RuO _x Nanowires in RuO _x /TiO ₂ (110): Dissociation of Water and Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4767-4773	3.8	25
78	Nanopatterning in CeO _x /Cu(111): A New Type of Surface Reconstruction and Enhancement of Catalytic Activity. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 839-43	6.4	35
77	Adsorption and thermal decomposition of 2-octylthieno[3,4-b]thiophene on Au(111). <i>Journal of Colloid and Interface Science</i> , 2012 , 384, 143-8	9.3	1
76	Reversible graphene-metal contact through hydrogenation. <i>Physical Review B</i> , 2012 , 86,	3.3	25
75	Exploring the Structural and Electronic Properties of Pt/Ceria-Modified TiO ₂ and Its Photocatalytic Activity for Water Splitting under Visible Light. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14062-14070	3.8	61
74	CeO ₂ <-RuO _x Interactions and the Controlled Assembly of CeO ₂ (111) and CeO ₂ (100) Nanoparticles on an Oxidized Cu(111) Substrate. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23062-23066	3.8	42
73	An Infrared Spectroscopic and Temperature-Programmed Desorption Study of 1,1-Difluoroethylene on Clean and Hydrogen-Covered Pd(111). <i>Adsorption Science and Technology</i> , 2011 , 29, 595-602	3.6	
72	Stabilization of Carboxylate Surface Species on Pd(111). <i>Adsorption Science and Technology</i> , 2011 , 29, 603-611	3.6	6
71	Determining the Behavior of RuO _x Nanoparticles in Mixed-Metal Oxides: Structural and Catalytic Properties of RuO ₂ /TiO ₂ (110) Surfaces. <i>Angewandte Chemie</i> , 2011 , 123, 10380-10384	3.6	3
70	Determining the behavior of RuO(x) nanoparticles in mixed-metal oxides: structural and catalytic properties of RuO ₂ /TiO ₂ (110) surfaces. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10198-202	16.4	47
69	Identification of 5-7 defects in a copper oxide surface. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11474-7	16.4	71
68	Gold, copper, and platinum nanoparticles dispersed on CeO(x)/TiO(2)(110) surfaces: high water-gas shift activity and the nature of the mixed-metal oxide at the nanometer level. <i>Journal of the American Chemical Society</i> , 2010 , 132, 356-63	16.4	232
67	Role of ceria in oxidative dehydrogenation on supported vanadia catalysts. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2345-9	16.4	171

66	Coverage effects on the palladium-catalyzed synthesis of vinyl acetate: comparison between theory and experiment. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2202-7	16.4	50
65	One-dimensional supramolecular surface structures: 1,4-diisocyanobenzene on Au(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 11624-9	3.6	44
64	Catalysis and the nature of mixed-metal oxides at the nanometer level: special properties of MO(x)/TiO ₂ (110) {M= V, W, Ce} surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 9557-65	3.6	60
63	Kinetic Parameters for the Elementary Steps in the Palladium-Catalyzed Synthesis of Vinyl Acetate. <i>Catalysis Letters</i> , 2010 , 138, 135-142	2.8	13
62	Probing the reaction intermediates for the water-gas shift over inverse CeOx/Au(111) catalysts. <i>Journal of Catalysis</i> , 2010 , 271, 392-400	7.3	102
61	Relating methanol oxidation to the structure of ceria-supported vanadia monolayer catalysts. <i>Journal of Catalysis</i> , 2010 , 272, 82-91	7.3	67
60	High catalytic activity of Au/CeOx/TiO ₂ (110) controlled by the nature of the mixed-metal oxide at the nanometer level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4975-80	11.5	241
59	Resolving the Atomic Structure of Vanadia Monolayer Catalysts: Monomers, Trimers, and Oligomers on Ceria. <i>Angewandte Chemie</i> , 2009 , 121, 8150-8153	3.6	22
58	Water-Gas Shift Reaction on a Highly Active Inverse CeOx/Cu(111) Catalyst: Unique Role of Ceria Nanoparticles. <i>Angewandte Chemie</i> , 2009 , 121, 8191-8194	3.6	35
57	Resolving the atomic structure of vanadia monolayer catalysts: monomers, trimers, and oligomers on ceria. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8006-9	16.4	127
56	Water-gas shift reaction on a highly active inverse CeOx/Cu111 catalyst: unique role of ceria nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8047-50	16.4	228
55	Enantioselective Chemisorption on Model Chirally Modified Surfaces: 2-Butanol on β (1-Naphthyl)ethylamine/Pd(111). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13877-13885	3.8	31
54	Water Nucleation on Gold: Existence of a Unique Double Bilayer. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15102-15105	3.8	48
53	Monte Carlo Theory Analysis of Thermal Programmed Desorption of Chiral Propylene Oxide from Pd(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3254-3258	3.8	10
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