

Cynthia M Friend

List of Publications by Year in descending order

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128
papers

6,979
citations

71061

41
h-index

62565

80
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135
all docs

135
docs citations

135
times ranked

7649
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward benchmarking theoretical computations of elementary rate constants on catalytic surfaces: formate decomposition on Au and Cu. <i>Chemical Science</i> , 2022, 13, 804-815.	3.7	3
2	Comment on "STM study of the (111) and (100) surfaces of PdAg, <i>Surf. Sci.</i> 417 (1998) 292-300" and references therein. <i>Surface Science</i> , 2022, 720, 122048.	0.8	1
3	Dilute Alloys Based on Au, Ag, or Cu for Efficient Catalysis: From Synthesis to Active Sites. <i>Chemical Reviews</i> , 2022, 122, 8758-8808.	23.0	50
4	Exploiting the Liquid Phase to Enhance the Cross-Coupling of Alcohols over Nanoporous Gold Catalysts. <i>ACS Catalysis</i> , 2022, 12, 183-192.	5.5	1
5	Synthesis and Characterization of Core-Shell Cu-Ru, Cu-Rh, and Cu-Ir Nanoparticles. <i>Journal of the American Chemical Society</i> , 2022, 144, 7919-7928.	6.6	13
6	The dynamic behavior of dilute metallic alloy Pd _x Au _{1-x} /SiO ₂ raspberry colloid templated catalysts under CO oxidation. <i>Catalysis Science and Technology</i> , 2021, 11, 4072-4082.	2.1	12
7	Predicting X-ray Photoelectron Peak Shapes: the Effect of Electronic Structure. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10685-10692.	1.5	16
8	Entropic Control of HD Exchange Rates over Dilute Pd-in-Au Alloy Nanoparticle Catalysts. <i>ACS Catalysis</i> , 2021, 11, 6971-6981.	5.5	25
9	Dilute Pd-in-Au alloy RCT-SiO ₂ catalysts for enhanced oxidative methanol coupling. <i>Journal of Catalysis</i> , 2021, 404, 943-953.	3.1	13
10	Regeneration of Active Surface Alloys during Cyclic Oxidation and Reduction: Oxidation of H ₂ on Pd/Ag(111). <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6752-6759.	2.1	5
11	Cover Memo: Volume 18, Issue 3, Special Issue on Shaping the Future of Science Policy. <i>Journal of Science Policy & Governance</i> , 2021, 18, .	0.1	0
12	On the Origin of Sinter Resistance and Catalyst Accessibility in Raspberry Colloid Templated Catalyst Design. <i>Advanced Functional Materials</i> , 2021, 31, 2106876.	7.8	10
13	Achieving High Selectivity for Alkyne Hydrogenation at High Conversions with Compositionally Optimized PdAu Nanoparticle Catalysts in Raspberry Colloid-Templated SiO ₂ . <i>ACS Catalysis</i> , 2020, 10, 441-450.	5.5	61
14	New Role of Pd Hydride as a Sensor of Surface Pd Distributions in Pd ^δ Au Catalysts. <i>ChemCatChem</i> , 2020, 12, 717-721.	1.8	12
15	Effect of Frustrated Rotations on the Pre-Exponential Factor for Unimolecular Reactions on Surfaces: A Case Study of Alkoxy Dehydrogenation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1429-1437.	1.5	10
16	Guidelines to Achieving High Selectivity for the Hydrogenation of $\hat{1},\hat{2}$ -Unsaturated Aldehydes with Bimetallic and Dilute Alloy Catalysts: A Review. <i>Chemical Reviews</i> , 2020, 120, 12834-12872.	23.0	136
17	Reduction of Oxidized Pd/Ag(111) Surfaces by H ₂ : Sensitivity to PdO Island Size and Dispersion. <i>ACS Catalysis</i> , 2020, 10, 10117-10124.	5.5	16
18	Evolution of Metastable Structures at Bimetallic Surfaces from Microscopy and Machine-Learning Molecular Dynamics. <i>Journal of the American Chemical Society</i> , 2020, 142, 15907-15916.	6.6	47

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19	Facilitating hydrogen atom migration via a dense phase on palladium islands to a surrounding silver surface. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22657-22664.	3.3	26
20	Neural network assisted analysis of bimetallic nanocatalysts using X-ray absorption near edge structure spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 18902-18910.	1.3	33
21	Facile Decomposition of Organophosphonates by Dual Lewis Sites on a Fe ₃ O ₄ (111) Film. Journal of Physical Chemistry C, 2020, 124, 12432-12441.	1.5	13
22	Regulating Photochemical Selectivity with Temperature: Isobutanol on TiO ₂ (110). Journal of the American Chemical Society, 2020, 142, 13072-13080.	6.6	12
23	Stabilization of a nanoporous NiCu dilute alloy catalyst for non-oxidative ethanol dehydrogenation. Catalysis Science and Technology, 2020, 10, 5207-5217.	2.1	17
24	Growth and auto-oxidation of Pd on single-layer AgO _x /Ag(111). Physical Chemistry Chemical Physics, 2020, 22, 6202-6209.	1.3	8
25	Dual Lewis site creation for activation of methanol on Fe ₃ O ₄ (111) thin films. Chemical Science, 2020, 11, 2448-2454.	3.7	10
26	Predicting a Sharp Decline in Selectivity for Catalytic Esterification of Alcohols from van der Waals Interactions. Angewandte Chemie, 2020, 132, 10956-10959.	1.6	5
27	Predicting a Sharp Decline in Selectivity for Catalytic Esterification of Alcohols from van der Waals Interactions. Angewandte Chemie - International Edition, 2020, 59, 10864-10867.	7.2	5
28	Hydrogen migration at restructuring palladium-silver oxide boundaries dramatically enhances reduction rate of silver oxide. Nature Communications, 2020, 11, 1844.	5.8	28
29	Tuning reactivity layer-by-layer: formic acid activation on Ag/Pd(111). Chemical Science, 2020, 11, 6492-6499.	3.7	7
30	Enhancing catalytic performance of dilute metal alloy nanomaterials. Communications Chemistry, 2020, 3, .	2.0	41
31	Dilute Pd/Au Alloy Nanoparticles Embedded in Colloid-Templated Porous SiO ₂ : Stable Au-Based Oxidation Catalysts. Chemistry of Materials, 2019, 31, 5759-5768.	3.2	50
32	Evolution of steady-state material properties during catalysis: Oxidative coupling of methanol over nanoporous Ag _{0.03} Au _{0.97} . Journal of Catalysis, 2019, 380, 366-374.	3.1	24
33	Dynamics of Surface Alloys: Rearrangement of Pd/Ag(111) Induced by CO and O ₂ . Journal of Physical Chemistry C, 2019, 123, 8312-8323.	1.5	75
34	Probing Atomic Distributions in Mono- and Bimetallic Nanoparticles by Supervised Machine Learning. Nano Letters, 2019, 19, 520-529.	4.5	80
35	Oxygen adsorption on spontaneously reconstructed Au(511). Surface Science, 2019, 679, 296-303.	0.8	5
36	New Architectures for Designed Catalysts: Selective Oxidation using Ag/Au Nanoparticles on Colloid-Templated Silica. Chemistry - A European Journal, 2018, 24, 1743-1743.	1.7	0

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37	A Comparative Ab Initio Study of Anhydrous Dehydrogenation of Linear-Chain Alcohols on Cu(110). Journal of Physical Chemistry C, 2018, 122, 7806-7815.	1.5	18
38	Identifying key descriptors in surface binding: interplay of surface anchoring and intermolecular interactions for carboxylates on Au(110). Chemical Science, 2018, 9, 3759-3766.	3.7	11
39	General Effect of van der Waals Interactions on the Stability of Alkoxy Intermediates on Metal Surfaces. Journal of Physical Chemistry B, 2018, 122, 555-560.	1.2	17
40	Structural Differentiation of the Reactivity of Alcohols with Active Oxygen on Au(110). Topics in Catalysis, 2018, 61, 299-307.	1.3	8
41	New Architectures for Designed Catalysts: Selective Oxidation using AgAu Nanoparticles on Colloid-Templated Silica. Chemistry - A European Journal, 2018, 24, 1833-1837.	1.7	29
42	O ₂ Activation by Metal Surfaces: Implications for Bonding and Reactivity on Heterogeneous Catalysts. Chemical Reviews, 2018, 118, 2816-2862.	23.0	363
43	Structure of the Clean and Oxygen-Covered Cu(100) Surface at Room Temperature in the Presence of Methanol Vapor in the 10 ⁻⁴ -200 mTorr Pressure Range. Journal of Physical Chemistry B, 2018, 122, 548-554.	1.2	23
44	Crossing the great divide between single-crystal reactivity and actual catalyst selectivity with pressure transients. Nature Catalysis, 2018, 1, 852-859.	16.1	42
45	Chemistry of Methanol and Ethanol on Ozone-Prepared $\text{Fe}_2\text{O}_3(0001)$. Journal of Physical Chemistry C, 2018, 122, 25404-25410.	1.5	5
46	Spatially Nonuniform Reaction Rates during Selective Oxidation on Gold. Journal of the American Chemical Society, 2018, 140, 12210-12215.	6.6	5
47	Toward digitally controlled catalyst architectures: Hierarchical nanoporous gold via 3D printing. Science Advances, 2018, 4, eaas9459.	4.7	140
48	Selective Activation of Methyl C-H Bonds of Toluene by Oxygen on Metallic Gold. Catalysis Letters, 2018, 148, 1985-1989.	1.4	5
49	Perspectives on the design of nanoparticle systems for catalysis. Faraday Discussions, 2018, 208, 595-607.	1.6	4
50	Water facilitates oxygen migration on gold surfaces. Physical Chemistry Chemical Physics, 2018, 20, 2196-2204.	1.3	17
51	Selective non-oxidative dehydrogenation of ethanol to acetaldehyde and hydrogen on highly dilute NiCu alloys. Applied Catalysis B: Environmental, 2017, 205, 541-550.	10.8	124
52	Strain effects on the behavior of isolated and paired sulfur vacancy defects in monolayer MoS_2 . Physical Review B, 2017, 95, .	1.1	16
53	Methanol Photo-Oxidation on Rutile TiO_2 Nanowires: Probing Reaction Pathways on Complex Materials. Journal of Physical Chemistry C, 2017, 121, 9910-9919.	1.5	26
54	Surface Structure Dependence of the Dry Dehydrogenation of Alcohols on Cu(111) and Cu(110). Journal of Physical Chemistry C, 2017, 121, 12800-12806.	1.5	34

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55	Heterogeneous Catalysis: A Central Science for a Sustainable Future. <i>Accounts of Chemical Research</i> , 2017, 50, 517-521.	7.6	271
56	Dynamic restructuring drives catalytic activity on nanoporous gold-silver alloy catalysts. <i>Nature Materials</i> , 2017, 16, 558-564.	13.3	243
57	Selective Oxygen-Assisted Reactions of Alcohols and Amines Catalyzed by Metallic Gold: Paradigms for the Design of Catalytic Processes. <i>ACS Catalysis</i> , 2017, 7, 965-985.	5.5	56
58	Thermally Activated Formation of Reactive Lattice Oxygen in Titania on Nanoporous Gold. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21405-21410.	1.5	4
59	First-Principles Study of Alkoxides Adsorbed on Au(111) and Au(110) Surfaces: Assessing the Roles of Noncovalent Interactions and Molecular Structures in Catalysis. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27905-27914.	1.5	12
60	Multiscale Morphology of Nanoporous Copper Made from Intermetallic Phases. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25615-25622.	4.0	24
61	Accurate formation energies of charged defects in solids: A systematic approach. <i>Physical Review B</i> , 2017, 95, .	1.1	24
62	Hydride-Based Solid Oxide Fuel Cell-Battery Hybrid Electrochemical System. <i>Energy Technology</i> , 2017, 5, 616-622.	1.8	3
63	Experimental investigation into tungsten carbide thin films as solid oxide fuel cell anodes. <i>Journal of Materials Research</i> , 2016, 31, 3050-3059.	1.2	6
64	Active sites for methanol partial oxidation on nanoporous gold catalysts. <i>Journal of Catalysis</i> , 2016, 344, 778-783.	3.1	45
65	Controlling O coverage and stability by alloying Au and Ag. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26844-26853.	1.3	16
66	Noncovalent Bonding Controls Selectivity in Heterogeneous Catalysis: Coupling Reactions on Gold. <i>Journal of the American Chemical Society</i> , 2016, 138, 15243-15250.	6.6	43
67	Self-assembly of acetate adsorbates drives atomic rearrangement on the Au(110) surface. <i>Nature Communications</i> , 2016, 7, 13139.	5.8	23
68	Surface Modifications during a Catalytic Reaction: a Combined APT and FIB/SEM Analysis of Surface Segregation. <i>Microscopy and Microanalysis</i> , 2016, 22, 356-357.	0.2	4
69	Bridging model and real catalysts: general discussion. <i>Faraday Discussions</i> , 2016, 188, 565-589.	1.6	3
70	Catalytic production of methyl acrylates by gold-mediated cross coupling of unsaturated aldehydes with methanol. <i>Surface Science</i> , 2016, 652, 58-66.	0.8	8
71	Catalyst design for enhanced sustainability through fundamental surface chemistry. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150077.	1.6	15
72	Continuous Catalytic Production of Methyl Acrylates from Unsaturated Alcohols by Gold: The Strong Effect of C=C Unsaturation on Reaction Selectivity. <i>ACS Catalysis</i> , 2016, 6, 1833-1839.	5.5	30

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73	Exploiting basic principles to control the selectivity of the vapor phase catalytic oxidative cross-coupling of primary alcohols over nanoporous gold catalysts. <i>Journal of Catalysis</i> , 2015, 329, 78-86.	3.1	39
74	Ozone-Activated Nanoporous Gold: A Stable and Storable Material for Catalytic Oxidation. <i>ACS Catalysis</i> , 2015, 5, 4237-4241.	5.5	76
75	Anatomy of the Photochemical Reaction: Excited-State Dynamics Reveals the C-H Acidity Mechanism of Methoxy Photo-oxidation on Titania. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1624-1627.	2.1	58
76	Facile Ester Synthesis on Ag-Modified Nanoporous Au: Oxidative Coupling of Ethanol and 1-Butanol Under UHV Conditions. <i>Catalysis Letters</i> , 2015, 145, 1217-1223.	1.4	14
77	Achieving Selective and Efficient Electrocatalytic Activity for CO ₂ Reduction Using Immobilized Silver Nanoparticles. <i>Journal of the American Chemical Society</i> , 2015, 137, 13844-13850.	6.6	575
78	Nanoporous Gold: Understanding the Origin of the Reactivity of a 21st Century Catalyst Made by Pre-Columbian Technology. <i>ACS Catalysis</i> , 2015, 5, 6263-6270.	5.5	140
79	Methyl ester synthesis catalyzed by nanoporous gold: from 10 ⁻⁹ Torr to 1 atm. <i>Catalysis Science and Technology</i> , 2015, 5, 1299-1306.	2.1	18
80	Enhanced Photo-Oxidation of Formaldehyde on Highly Reduced o-TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2014, 118, 29242-29251.	1.5	27
81	Perspectives on Heterogeneous Photochemistry. <i>Chemical Record</i> , 2014, 14, 944-951.	2.9	12
82	Ag/Au Mixed Sites Promote Oxidative Coupling of Methanol on the Alloy Surface. <i>Chemistry - A European Journal</i> , 2014, 20, 4646-4652.	1.7	37
83	The dissociation-induced displacement of chemisorbed O ₂ by mobile O atoms and the autocatalytic recombination of O due to chain fragmentation on Ag(110). <i>Surface Science</i> , 2014, 630, 187-194.	0.8	8
84	Switching Selectivity in Oxidation Reactions on Gold: The Mechanism of C vs C-H Bond Activation in the Acetate Intermediate on Au(111). <i>ACS Catalysis</i> , 2014, 4, 3281-3288.	5.5	19
85	van der Waals Interactions Determine Selectivity in Catalysis by Metallic Gold. <i>Journal of the American Chemical Society</i> , 2014, 136, 13333-13340.	6.6	63
86	Tuning the Stability of Surface Intermediates Using Adsorbed Oxygen: Acetate on Au(111). <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1126-1130.	2.1	19
87	Predicting Gold-Mediated Catalytic Oxidative-Coupling Reactions from Single Crystal Studies. <i>Accounts of Chemical Research</i> , 2014, 47, 761-772.	7.6	47
88	The Dynamic Roles of Interstitial and Surface Defects on Oxidation and Reduction Reactions on Titania. <i>Topics in Catalysis</i> , 2013, 56, 1377-1388.	1.3	23
89	Sequential Photo-oxidation of Methanol to Methyl Formate on TiO ₂ (110). <i>Journal of the American Chemical Society</i> , 2013, 135, 574-577.	6.6	166
90	Origin of the selectivity in the gold-mediated oxidation of benzyl alcohol. <i>Surface Science</i> , 2012, 606, 1129-1134.	0.8	40

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91	Formation of nanostructured TiO ₂ by femtosecond laser irradiation of titanium in O ₂ . Journal of Applied Physics, 2012, 112, .	1.1	40
92	Role of Surface-Bound Intermediates in the Oxygen-Assisted Synthesis of Amides by Metallic Silver and Gold. Journal of the American Chemical Society, 2012, 134, 12604-12610.	6.6	16
93	Dual-Function of Alcohols in Gold-Mediated Selective Coupling of Amines and Alcohols. Chemistry - A European Journal, 2012, 18, 2313-2318.	1.7	20
94	Oxygen-Mediated Coupling of Alcohols over Nanoporous Gold Catalysts at Ambient Pressures. Angewandte Chemie - International Edition, 2012, 51, 1698-1701.	7.2	106
95	Role of defects in propene adsorption and reaction on a partially O-covered Au(111) surface. Catalysis Science and Technology, 2011, 1, 1166.	2.1	15
96	A paradigm for predicting selective oxidation on noble metals: oxidative catalytic coupling of amines and aldehydes on metallic gold. Faraday Discussions, 2011, 152, 241.	1.6	19
97	Oxidative coupling of alcohols on gold: Insights from experiments and theory. Faraday Discussions, 2011, 152, 307.	1.6	33
98	Theoretical Study of O-Assisted Selective Coupling of Methanol on Au(111). Journal of Physical Chemistry C, 2011, 115, 3703-3708.	1.5	95
99	Activated Metallic Gold as an Agent for Direct Methoxycarbonylation. Journal of the American Chemical Society, 2011, 133, 20378-20383.	6.6	31
100	The mystery of gold's chemical activity: local bonding, morphology and reactivity of atomic oxygen. Physical Chemistry Chemical Physics, 2011, 13, 34-46.	1.3	106
101	The Role of Surface and Subsurface Point Defects for Chemical Model Studies on TiO ₂ : A First-Principles Theoretical Study of Formaldehyde Bonding on Rutile TiO ₂ (110). Chemistry - A European Journal, 2011, 17, 4496-4506.	1.7	72
102	Insights from Theory on the Relationship Between Surface Reactivity and Gold Atom Release. Topics in Catalysis, 2010, 53, 365-377.	1.3	15
103	Model Systems in Catalysis. Single Crystals to Supported Enzyme Mimics. Herausgegeben von Robert M. Rioux. Angewandte Chemie, 2010, 122, 9508-9508.	1.6	0
104	Highly Selective Acylation of Dimethylamine Mediated by Oxygen Atoms on Metallic Gold Surfaces. Angewandte Chemie - International Edition, 2010, 49, 394-398.	7.2	69
105	Vapour-phase gold-surface-mediated coupling of aldehydes with methanol. Nature Chemistry, 2010, 2, 61-65.	6.6	158
106	Oxygen-assisted cross-coupling of methanol with alkyl alcohols on metallic gold. Chemical Science, 2010, 1, 310.	3.7	58
107	Achieving Optimum Selectivity in Oxygen Assisted Alcohol Cross-Coupling on Gold. Journal of the American Chemical Society, 2010, 132, 16571-16580.	6.6	102
108	Local Bonding Effects in the Oxidation of CO on Oxygen-Covered Au(111) from Ab Initio Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2010, 6, 279-287.	2.3	14

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109	Selectivity Control in Gold-Mediated Esterification of Methanol. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4206-4209.	7.2	167
110	Surface-Mediated Self-Coupling of Ethanol on Gold. <i>Journal of the American Chemical Society</i> , 2009, 131, 5757-5759.	6.6	119
111	Nature of Oxidation of the Au(111) Surface: Experimental and Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16561-16564.	1.5	45
112	Atomic Oxygen Adsorption on Au(111) Surfaces with Defects. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3232-3238.	1.5	80
113	Chlorine Adsorption on Au(111): Chlorine Overlayer or Surface Chloride?. <i>Journal of the American Chemical Society</i> , 2008, 130, 3560-3565.	6.6	83
114	Unraveling molecular transformations on surfaces: a critical comparison of oxidation reactions on coinage metals. <i>Chemical Society Reviews</i> , 2008, 37, 2243.	18.7	120
115	Chlorine Promotion of Styrene Epoxidation on Au(111). <i>Journal of the American Chemical Society</i> , 2007, 129, 1872-1873.	6.6	46
116	Heterogeneous Gold-Based Catalysis for Green Chemistry: Low-Temperature CO Oxidation and Propene Oxidation. <i>Chemical Reviews</i> , 2007, 107, 2709-2724.	23.0	713
117	Partial Oxidation of Propene on Oxygen-Covered Au(111). <i>Journal of Physical Chemistry B</i> , 2006, 110, 15982-15987.	1.2	64
118	A Pathway for NH Addition to Styrene Promoted by Gold. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7075-7078.	7.2	31
119	Reactivity of methanol on TiO ₂ nanoparticles supported on the Au(111) surface. <i>Surface Science</i> , 2005, 591, 1-12.	0.8	25
120	Selective Oxidation of Styrene on an Oxygen-Covered Au(111). <i>Journal of the American Chemical Society</i> , 2005, 127, 17178-17179.	6.6	132
121	Enhancement of O ₂ Dissociation on Au(111) by Adsorbed Oxygen: Implications for Oxidation Catalysis. <i>Journal of the American Chemical Society</i> , 2005, 127, 9267-9270.	6.6	211
122	Synthesis of TiO ₂ nanoparticles on the Au(111) surface. <i>Journal of Chemical Physics</i> , 2005, 123, 094705.	1.2	72
123	A Novel Growth Mode of Mo on Au (111) from a Mo(CO) ₆ Precursor: An STM Study. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1036-1043.	1.2	40
124	Dinitrosyl formation as an intermediate stage of the reduction of NO in the presence of MoO ₃ . <i>Journal of Chemical Physics</i> , 2003, 118, 6046-6051.	1.2	13
125	Effect of Coadsorbed Species and Temperature on Competitive Reaction Channels for Nascent Radicals: C ₃ H ₇ CH ₂ SH on Mo(110)-(6 × 1)-O. <i>Journal of Physical Chemistry B</i> , 2002, 106, 663-672.	1.2	9
126	Hydroxymethylcyclopropane on Oxygen-Covered Mo(110): A Radical Clock on a Surface. <i>Journal of the American Chemical Society</i> , 2000, 122, 12395-12396.	6.6	11

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127	What Promotes the Development of Women Scientists in Academia? Introductory Remarks. Annals of the New York Academy of Sciences, 1999, 869, 207-209.	1.8	1
128	Surface Processes in CVD: Laser- and Low Energy Electron-Induced Decomposition of $W(CO)_6$ on Si(111)-(7 \times 7). Materials Research Society Symposia Proceedings, 1988, 131, 461.	0.1	2