

# Robert J Madix

## 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.

235  
papers

9,140  
citations

49  
h-index

83  
g-index

239  
ext. papers

9,747  
ext. citations

7  
avg, IF

6.16  
L-index

#	Paper	IF	Citations
235	Toward benchmarking theoretical computations of elementary rate constants on catalytic surfaces: formate decomposition on Au and Cu.. <i>Chemical Science</i> , <b>2022</b> , 13, 804-815	9.4	1
234	Exploiting the Liquid Phase to Enhance the Cross-Coupling of Alcohols over Nanoporous Gold Catalysts. <i>ACS Catalysis</i> , <b>2022</b> , 12, 183-192	13.1	1
233	Entropic Control of HD Exchange Rates over Dilute Pd-in-Au Alloy Nanoparticle Catalysts. <i>ACS Catalysis</i> , <b>2021</b> , 11, 6971-6981	13.1	10
232	Dilute Pd-in-Au alloy RCT-SiO <sub>2</sub> catalysts for enhanced oxidative methanol coupling. <i>Journal of Catalysis</i> , <b>2021</b> ,	7.3	5
231	The dynamic behavior of dilute metallic alloy Pd <sub>x</sub> Au <sub>1-x</sub> /SiO <sub>2</sub> raspberry colloid templated catalysts under CO oxidation. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 4072-4082	5.5	6
230	Moving from Fundamental Knowledge of Kinetics and Mechanisms on Surfaces to Prediction of Catalyst Performance in Reactors. <i>ACS Catalysis</i> , <b>2021</b> , 11, 3048-3066	13.1	3
229	Growth and auto-oxidation of Pd on single-layer AgO/Ag(111). <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 6202-6209	3.6	6
228	Predicting a Sharp Decline in Selectivity for Catalytic Esterification of Alcohols from van der Waals Interactions. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 10956-10959	3.6	3
227	Predicting a Sharp Decline in Selectivity for Catalytic Esterification of Alcohols from van der Waals Interactions. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 10864-10867	16.4	3
226	Achieving High Selectivity for Alkyne Hydrogenation at High Conversions with Compositionally Optimized PdAu Nanoparticle Catalysts in Raspberry Colloid-Templated SiO <sub>2</sub> . <i>ACS Catalysis</i> , <b>2020</b> , 10, 441-450	13.1	36
225	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> , <b>2020</b> , 124, 1429-1437	7.8	9
224	Oxophilicity Drives Oxygen Transfer at a Palladium-Silver Interface for Increased CO Oxidation Activity. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13878-13889	13.1	3
223	Evolution of Metastable Structures at Bimetallic Surfaces from Microscopy and Machine-Learning Molecular Dynamics. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 15907-15916	16.4	16
222	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> , <b>2020</b> , 117, 22657-22664	11.5	16
221	Hydrogen migration at restructuring palladium-silver oxide boundaries dramatically enhances reduction rate of silver oxide. <i>Nature Communications</i> , <b>2020</b> , 11, 1844	17.4	18
220	Tuning reactivity layer-by-layer: formic acid activation on Ag/Pd(111). <i>Chemical Science</i> , <b>2020</b> , 11, 6492-6499	9.9	5
219	Enhancing catalytic performance of dilute metal alloy nanomaterials. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	20

218	Dissecting the Performance of Nanoporous Gold Catalysts for Oxygen-Assisted Coupling of Methanol with Fundamental Mechanistic and Kinetic Information. <i>ACS Catalysis</i> , <b>2019</b> , 9, 4477-4487	13.1	10
217	Dilute Pd/Au Alloy Nanoparticles Embedded in Colloid-Templated Porous SiO <sub>2</sub> : Stable Au-Based Oxidation Catalysts. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5759-5768	9.6	34
216	Evolution of steady-state material properties during catalysis: Oxidative coupling of methanol over nanoporous Ag <sub>0.03</sub> Au <sub>0.97</sub> . <i>Journal of Catalysis</i> , <b>2019</b> , 380, 366-374	7.3	18
215	Dynamics of Surface Alloys: Rearrangement of Pd/Ag(111) Induced by CO and O <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 8312-8323	3.8	49
214	Oxygen adsorption on spontaneously reconstructed Au(511). <i>Surface Science</i> , <b>2019</b> , 679, 296-303	1.8	2
213	New Architectures for Designed Catalysts: Selective Oxidation using AgAu Nanoparticles on Colloid-Templated Silica. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 1743-1743	4.8	
212	A Comparative Ab Initio Study of Anhydrous Dehydrogenation of Linear-Chain Alcohols on Cu(110). <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 7806-7815	3.8	12
211	Identifying key descriptors in surface binding: interplay of surface anchoring and intermolecular interactions for carboxylates on Au(110). <i>Chemical Science</i> , <b>2018</b> , 9, 3759-3766	9.4	9
210	General Effect of van der Waals Interactions on the Stability of Alkoxy Intermediates on Metal Surfaces. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 555-560	3.4	15
209	Dry Dehydrogenation of Ethanol on PtAu Single Atom Alloys. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 328-335	2.3	34
208	Structural Differentiation of the Reactivity of Alcohols with Active Oxygen on Au(110). <i>Topics in Catalysis</i> , <b>2018</b> , 61, 299-307	2.3	6
207	New Architectures for Designed Catalysts: Selective Oxidation using AgAu Nanoparticles on Colloid-Templated Silica. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 1833-1837	4.8	18
206	Water facilitates oxygen migration on gold surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 2196-2204	3.8	14
205	O Activation by Metal Surfaces: Implications for Bonding and Reactivity on Heterogeneous Catalysts. <i>Chemical Reviews</i> , <b>2018</b> , 118, 2816-2862	68.1	190
204	Crossing the great divide between single-crystal reactivity and actual catalyst selectivity with pressure transients. <i>Nature Catalysis</i> , <b>2018</b> , 1, 852-859	36.5	25
203	Long-range ordering of stable, surface-bound intermediates: RAIRS, TPRS and STM studies of toluene oxidation on Ag(110) <b>2018</b> , 4, 1-7		
202	Spatially Nonuniform Reaction Rates during Selective Oxidation on Gold. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12210-12215	16.4	4
201	Selective Activation of Methyl C-H Bonds of Toluene by Oxygen on Metallic Gold. <i>Catalysis Letters</i> , <b>2018</b> , 148, 1985-1989	2.8	4

200	Surface Structure Dependence of the Dry Dehydrogenation of Alcohols on Cu(111) and Cu(110). <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 12800-12806	3.8	25
199	Dynamic restructuring drives catalytic activity on nanoporous gold-silver alloy catalysts. <i>Nature Materials</i> , <b>2017</b> , 16, 558-564	27	180
198	Selective Oxygen-Assisted Reactions of Alcohols and Amines Catalyzed by Metallic Gold: Paradigms for the Design of Catalytic Processes. <i>ACS Catalysis</i> , <b>2017</b> , 7, 965-985	13.1	45
197	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> , <b>2017</b> , 121, 27905-27914	3.8	10
196	The creation of microscopic surface structures by interfacial diffusion of Au and Ag on Ag(110): A XPS and STM study. <i>Surface Science</i> , <b>2016</b> , 643, 36-44	1.8	8
195	Controlling O coverage and stability by alloying Au and Ag. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 26844-26853	3.6	15
194	How Does Nanoporous Gold Dissociate Molecular Oxygen?. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 16636-16640	3.8	36
193	Noncovalent Bonding Controls Selectivity in Heterogeneous Catalysis: Coupling Reactions on Gold. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15243-15250	16.4	35
192	Self-assembly of acetate adsorbates drives atomic rearrangement on the Au(110) surface. <i>Nature Communications</i> , <b>2016</b> , 7, 13139	17.4	18
191	Designing new catalysts: synthesis of new active structures: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 188, 131-59	3.6	4
190	Catalyst design from theory to practice: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 188, 279-307	3.6	2
189	Active site densities, oxygen activation and adsorbed reactive oxygen in alcohol activation on npAu catalysts. <i>Faraday Discussions</i> , <b>2016</b> , 188, 57-67	3.6	19
188	Catalytic production of methyl acrylates by gold-mediated cross coupling of unsaturated aldehydes with methanol. <i>Surface Science</i> , <b>2016</b> , 652, 58-66	1.8	7
187	Catalyst design for enhanced sustainability through fundamental surface chemistry. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,	3	13
186	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> , <b>2016</b> , 6, 1833-1839	13.1	23
185	Active sites for methanol partial oxidation on nanoporous gold catalysts. <i>Journal of Catalysis</i> , <b>2016</b> , 344, 778-783	7.3	32
184	Facile Ester Synthesis on Ag-Modified Nanoporous Au: Oxidative Coupling of Ethanol and 1-Butanol Under UHV Conditions. <i>Catalysis Letters</i> , <b>2015</b> , 145, 1217-1223	2.8	12
183	Nanoporous Gold: Understanding the Origin of the Reactivity of a 21st Century Catalyst Made by Pre-Columbian Technology. <i>ACS Catalysis</i> , <b>2015</b> , 5, 6263-6270	13.1	118

182	Methyl ester synthesis catalyzed by nanoporous gold: from 10 <sup>9</sup> Torr to 1 atm. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 1299-1306	5.5	17
181	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> , <b>2015</b> , 329, 78-86	7.3	37
180	Ozone-Activated Nanoporous Gold: A Stable and Storable Material for Catalytic Oxidation. <i>ACS Catalysis</i> , <b>2015</b> , 5, 4237-4241	13.1	63
179	Ag/Au mixed sites promote oxidative coupling of methanol on the alloy surface. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 4646-52	4.8	33
178	The dissociation-induced displacement of chemisorbed O <sub>2</sub> by mobile O atoms and the autocatalytic recombination of O due to chain fragmentation on Ag(110). <i>Surface Science</i> , <b>2014</b> , 630, 187-194	1.8	6
177	Switching Selectivity in Oxidation Reactions on Gold: The Mechanism of C-C vs C-H Bond Activation in the Acetate Intermediate on Au(111). <i>ACS Catalysis</i> , <b>2014</b> , 4, 3281-3288	13.1	14
176	Van der Waals interactions determine selectivity in catalysis by metallic gold. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 13333-40	16.4	52
175	Tuning the Stability of Surface Intermediates Using Adsorbed Oxygen: Acetate on Au(111). <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1126-30	6.4	18
174	Predicting gold-mediated catalytic oxidative-coupling reactions from single crystal studies. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 761-72	24.3	41
173	Analysis of sulfur-induced selectivity changes for anhydrous methanol dehydrogenation on Ni(100) surfaces. <i>Surface Science</i> , <b>2013</b> , 613, 58-62	1.8	4
172	Alkyl groups as synthetic vehicles in gold-mediated oxidative coupling reactions. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 3179-85	3.6	3
171	Dual-function of alcohols in gold-mediated selective coupling of amines and alcohols. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 2313-8	4.8	19
170	Butyrophenone on O-TiO <sub>2</sub> (110): one-dimensional motion in a weakly confined potential well. <i>ACS Nano</i> , <b>2012</b> , 6, 2925-30	16.7	18
169	Origin of the selectivity in the gold-mediated oxidation of benzyl alcohol. <i>Surface Science</i> , <b>2012</b> , 606, 1129-1134	1.8	37
168	Subsurface Hydrogen Diffusion into Pd Nanoparticles: Role of Low-Coordinated Surface Sites and Facilitation by Carbon. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 3539-3544	3.8	76
167	Role of surface-bound intermediates in the oxygen-assisted synthesis of amides by metallic silver and gold. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 12604-10	16.4	16
166	A paradigm for predicting selective oxidation on noble metals: oxidative catalytic coupling of amines and aldehydes on metallic gold. <i>Faraday Discussions</i> , <b>2011</b> , 152, 241-52; discussion 293-306	3.6	18
165	Activated metallic gold as an agent for direct methoxycarbonylation. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 20378-83	16.4	27

164	Precious metal magic: catalytic wizardry. <i>Materials Today</i> , <b>2011</b> , 14, 134-142	21.8	57
163	Interfacial chemistry: gold's enigmatic surface. <i>Nature</i> , <b>2011</b> , 479, 482-3	50.4	3
162	Oxygen-assisted cross-coupling of methanol with alkyl alcohols on metallic gold. <i>Chemical Science</i> , <b>2010</b> , 1, 310	9.4	53
161	Cesium promotion in styrene epoxidation on silver catalysts. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 434-5	16.4	30
160	Achieving optimum selectivity in oxygen assisted alcohol cross-coupling on gold. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 16571-80	16.4	94
159	Roles of oxyanions in promoting the partial oxidation of styrene on Ag(110): nitrate, carbonate, sulfite, and sulfate. <i>Langmuir</i> , <b>2010</b> , 26, 16282-6	4	4
158	Highly selective acylation of dimethylamine mediated by oxygen atoms on metallic gold surfaces. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 394-8	16.4	56
157	Selectivity control in gold-mediated esterification of methanol. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4206-9	16.4	157
156	Strong structure sensitivity in the partial oxidation of styrene on silver single crystals. <i>Surface Science</i> , <b>2009</b> , 603, 1751-1755	1.8	9
155	Surface-mediated self-coupling of ethanol on gold. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 5757-9	16.4	111
154	Unraveling molecular transformations on surfaces: a critical comparison of oxidation reactions on coinage metals. <i>Chemical Society Reviews</i> , <b>2008</b> , 37, 2243-61	58.5	108
153	Oxidation of Styrene and Phenylacetaldehyde on Ag(111): Evidence for Transformation of Surface Oxametallacycle. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 4725-4734	3.8	20
152	Structure Sensitivity in the Partial Oxidation of Styrene, Styrene Oxide, and Phenylacetaldehyde on Silver Single Crystals. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 3675-3679	3.8	28
151	Mesosopic restructuring and mass transport of metal atoms during reduction of the Ag(111)-p(4x4)-O surface with CO. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 084707	3.9	24
150	Selectivity limitations in the heterogeneous epoxidation of olefins: branching reactions of the oxametallacycle intermediate in the partial oxidation of styrene. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1034-5	16.4	35
149	Surface-mediated NH and N addition to styrene on Ag(110). <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 14266-7	16.4	5
148	Partial oxidation of higher olefins on Ag(111): Conversion of styrene to styrene oxide, benzene, and benzoic acid. <i>Surface Science</i> , <b>2006</b> , 600, 5025-5040	1.8	35
147	An STM investigation of sulfur and alkoxide adsorption on Ni(100). <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 11307-13	3.4	7

146	The adsorption of and reaction of NO <sub>2</sub> on Ag(1 1 1)-p(4 × 4)-O and formation of surface nitrate. <i>Surface Science</i> , <b>2005</b> , 587, 193-204	1.8	16
145	Reactivity of methanol on TiO <sub>2</sub> nanoparticles supported on the Au(1 1 1) surface. <i>Surface Science</i> , <b>2005</b> , 591, 1-12	1.8	24
144	Reaction of sulfur dioxide with Ni(100) and Ni(100)-p(2 × 2)-O. <i>Surface Science</i> , <b>2005</b> , 592, 141-149	1.8	3
143	Surface reorganization accompanying the formation of sulfite and sulfate by reaction of sulfur dioxide with oxygen on Ag(111). <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 2147-18	3.9	9
142	Mass and lattice effects in trapping: Ar, Kr, and Xe on Pt(111), Pd(111), and Ni(111). <i>Surface Science</i> , <b>2004</b> , 565, 70-80	1.8	14
141	The adsorption dynamics of small alkanes on (111) surfaces of platinum group metals. <i>Surface Science</i> , <b>2004</b> , 557, 215-230	1.8	32
140	Two-dimensional condensation anisotropic crystallization: H <sub>2</sub> /Ni(1 1 0). <i>Surface Science</i> , <b>2004</b> , 557, 231-248	1.8	17
139	The Role of Surface Deconstruction in the Autocatalytic Decomposition of Formate and Acetate on Ni(110). <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 14374-14383	3.4	14
138	CO-Induced Segregation of Hydrogen into the Subsurface on Ni(110). <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 7247-7252	3.4	6
137	Different binding sites for methanol dehydrogenation and deoxygenation on stoichiometric and defective TiO <sub>2</sub> (110) surfaces. <i>Surface Science</i> , <b>2003</b> , 544, 241-260	1.8	89
136	Topographic nano-restructuring: sulfur dioxide adsorption on Cu(110). <i>Surface Science</i> , <b>2003</b> , 524, L84-L88	1.8	18
135	Collective motion and oscillatory interaction: CuO and sulfite on Cu(110). <i>Surface Science</i> , <b>2003</b> , 526, L127-L132	1.8	7
134	The adsorption and reaction of low molecular weight alkanes on metallic single crystal surfaces. <i>Surface Science Reports</i> , <b>2003</b> , 50, 107-199	12.9	172
133	Characterization of the Acid-Base Properties of the TiO <sub>2</sub> (110) Surface by Adsorption of Amines. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3225-3233	3.4	81
132	Real-time observation of surface reactivity and mobility with scanning tunneling microscopy. <i>Accounts of Chemical Research</i> , <b>2003</b> , 36, 471-80	24.3	27
131	Imaging Surface Reactions at Atomic Resolution: A Wealth of Behavior on the Nanoscale. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3105-3116	3.4	18
130	Reactivity of Stoichiometric and Defective TiO <sub>2</sub> (110) Surfaces toward DCOOD Decomposition. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 11709-11720	3.4	28
129	Adsorption and reaction of sulfur dioxide with Cu(110) and Cu(110)-p(2 × 2)-O. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 4698-4706	3.9	30

128	Role of Defects in the Adsorption of Aliphatic Alcohols on the TiO <sub>2</sub> (110) Surface. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 10680-10692	3.4	149
127	The Adsorption Dynamics of Molecular Methane, Propane, and Neopentane on Pd(111): Theory and Experiment. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 8248-8257	3.4	29
126	Partial oxidation of methanol to formaldehyde on a model supported monolayer vanadia catalyst: vanadia on TiO <sub>2</sub> (110). <i>Surface Science</i> , <b>2002</b> , 496, 51-63	1.8	63
125	The prediction of trapping probabilities for ethane by molecular dynamics simulations: scaling from Pt to Pd. <i>Surface Science</i> , <b>2002</b> , 505, 115-123	1.8	9
124	The adsorption dynamics of molecular carbon dioxide on Pt() and Pd(). <i>Surface Science</i> , <b>2002</b> , 497, 356-372	3.0	30
123	Reaction of sulfur dioxide with Ag(110)√(2√)-O: a LEED, TPRS, and STM investigation. <i>Surface Science</i> , <b>2002</b> , 504, 223-234	1.8	18
122	Molecular adsorption and growth of n-butane adlayers on Pt(1 1 1). <i>Surface Science</i> , <b>2001</b> , 470, 226-242	1.8	36
121	Preparation and reactions of V <sub>2</sub> O <sub>5</sub> supported on TiO <sub>2</sub> (110). <i>Surface Science</i> , <b>2001</b> , 474, L213-L216	1.8	73
120	CO <sub>2</sub> + O on Ag(110): Stoichiometry of Carbonate Formation, Reactivity of Carbonate with CO, and Reconstruction-Stabilized Chemisorption of CO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 3878-3885	3.4	36
119	Molecular ethane adsorption dynamics on oxygen-covered Pt(111). <i>Topics in Catalysis</i> , <b>2000</b> , 14, 63-69	2.3	5
118	Direct dissociative chemisorption of alkanes on Pt(111): Influence of molecular complexity. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 396-407	3.9	25
117	Electronic structure and growth of vanadium on TiO <sub>2</sub> (110). <i>Surface Science</i> , <b>2000</b> , 450, 12-26	1.8	89
116	Trapping dynamics of isobutane, n-butane, and neopentane on Pt(111): Effects of molecular weight and structure. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 10585-10598	3.9	20
115	The growth of vanadium oxide on alumina and titania single crystal surfaces. <i>Faraday Discussions</i> , <b>1999</b> , 114, 67-84	3.6	27
114	Alkene and Arene Combustion on Pd(111). <i>Journal of Catalysis</i> , <b>1998</b> , 178, 520-532	7.3	19
113	Surface corrugation effects: molecular ethane adsorption dynamics on rigid adsorbate-covered surfaces of Pt(111). <i>Surface Science</i> , <b>1998</b> , 395, 148-167	1.8	30
112	Coverage dependence of neopentane trapping dynamics on Pt(111). <i>Surface Science</i> , <b>1998</b> , 400, 11-18	1.8	13
111	Non-uniform product inhibition in surface reactions Spatial organization effects in ammonia oxydehydrogenation on Cu(110). <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 4197-4200	6	6



110	Coadsorption of CO and CH <sub>3</sub> O on Ni(100). <i>Surface Science</i> , <b>1997</b> , 375, 268-280	1.8	14
109	The dynamical origin of non-normal energy scaling and the effect of surface temperature on the trapping of low molecular weight alkanes on Pt(111). <i>Surface Science</i> , <b>1997</b> , 380, 489-496	1.8	22
108	In situ STM imaging of ammonia oxydehydrogenation on Cu(110): the reactivity of preadsorbed and transient oxygen species. <i>Surface Science</i> , <b>1997</b> , 387, 1-10	1.8	13
107	Molecular dynamics simulations for xenon adsorption on Pt(111): dynamical differences in the effects produced by the Barker-Rettner and Morse potentials. <i>Surface Science</i> , <b>1997</b> , 391, 150-160	1.8	12
106	Origin of vinylic C-H bond activation in the combustion of alkenes on palladium: an HREELS study of propene on Pd(100)-p(2 × 2)-O. <i>Surface Science</i> , <b>1997</b> , 391, L1165-L1171	1.8	14
105	Direct collisionally activated and trapping-mediated dissociative chemisorption of neopentane on clean Pt(111): the activity of surface defect sites. <i>Surface Science</i> , <b>1997</b> , 393, 150-161	1.8	17
104	Anomalous effects of weak chemisorption on desorption kinetics of alkenes: The desorption of propylene and propane from Ag(110). <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 1699-1708	3.9	19
103	Hydrogen bonding on iron: correlation of adsorption and desorption states on Fe(100) and perturbation of the Fe-H bond with coadsorbed CO. <i>Surface Science</i> , <b>1996</b> , 347, 249-264	1.8	39
102	The molecular adsorption of ethane on sulfur- and ethylidyne-covered surfaces of Pt(111). <i>Surface Science</i> , <b>1996</b> , 364, 325-334	1.8	14
101	Aromatization of 1,3,5,7-cyclooctatetraene and oxydehydrogenation of cis-cyclooctene, 1,5-cyclooctadiene and 1,3,5,7-cyclooctatetraene on clean and oxygen precovered Ag(110). <i>Surface Science</i> , <b>1996</b> , 365, 701-728	1.8	4
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