

# Wen-Chi Liu

## 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.

185  
papers

13,300  
citations

65  
h-index

111  
g-index

191  
ext. papers

14,555  
ext. citations

9.1  
avg, IF

6.78  
L-index

#	Paper	IF	Citations
185	Nanoparticle Assembly Induced Ligand Interactions for Enhanced Electrocatalytic CO Conversion. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 19919-19927	16.4	5
184	Mechanism of Methanol Decomposition over Single-Site Pt/CeO Catalyst: A DRIFTS Study. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 60-64	16.4	14
183	Insights into the Mechanism of Methanol Steam Reforming Tandem Reaction over CeO Supported Single-Site Catalysts. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12074-12081	16.4	11
182	Metallic Nanoparticles in Heterogeneous Catalysis. <i>Catalysis Letters</i> , <b>2021</b> , 151, 2153	2.8	12
181	Selective CO <sub>2</sub> electrocatalysis at the pseudocapacitive nanoparticle/ordered-ligand interlayer. <i>Nature Energy</i> , <b>2020</b> , 5, 1032-1042	62.3	28
180	Individually Encapsulated Frame-in-Frame Structure <b>2020</b> , 2, 685-690		3
179	A mini review of cobalt-based nanocatalyst in Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , <b>2020</b> , 602, 117701	5.1	24
178	Integrating the Fields of Catalysis: Active Site Engineering in Metal Cluster, Metal Organic Framework and Metal Single Site. <i>Topics in Catalysis</i> , <b>2020</b> , 63, 628-634	2.3	6
177	Application of Single-Site Catalysts in the Hydrogen Economy. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 1114-1125	14.8	2
176	Oligomerization of Light Olefins Catalyzed by Brønsted-Acidic Metal-Organic Framework-808. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11557-11564	16.4	36
175	Efficient Hydrogen Production from Methanol Using a Single-Site Pt/CeO Catalyst. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17995-17999	16.4	59
174	Identification of the strong Brønsted acid site in a metal-organic framework solid acid catalyst. <i>Nature Chemistry</i> , <b>2019</b> , 11, 170-176	17.6	134
173	Catalytic 1-Propanol Oxidation on Size-Controlled Platinum Nanoparticles at Solid-Gas and Solid-Liquid Interfaces: Significant Differences in Kinetics and Mechanisms. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 7577-7583	3.8	5
172	Supported Au Nanoparticles with N-Heterocyclic Carbene Ligands as Active and Stable Heterogeneous Catalysts for Lactonization. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4144-4149	16.4	73
171	Bimetallic Cobalt Nanoparticles (CoM): Synthesis, Characterization, and Application in the Fischer-Tropsch Process. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 1002-1015	2.3	6
170	Foundations and strategies of the construction of hybrid catalysts for optimized performances. <i>Nature Catalysis</i> , <b>2018</b> , 1, 318-325	36.5	97
169	Fluoroethylene Carbonate Induces Ordered Electrolyte Interface on Silicon and Sapphire Surfaces as Revealed by Sum Frequency Generation Vibrational Spectroscopy and X-ray Reflectivity. <i>Nano Letters</i> , <b>2018</b> , 18, 2105-2111	11.5	35

168	Identifying the Decomposition of Diethyl Carbonate in Binary Electrolyte Solutions in Contact with Silicon Anodes - A Sum Frequency Generation Vibrational Spectroscopy Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 1480-1486	3.9	9
167	Fluoroethylene Carbonate as a Directing Agent in Amorphous Silicon Anodes: Electrolyte Interface Structure Probed by Sum Frequency Vibrational Spectroscopy and Ab Initio Molecular Dynamics. <i>Nano Letters</i> , <b>2018</b> , 18, 1145-1151	11.5	49
166	Surface Science Approach to the Molecular Level Integration of the Principles in Heterogeneous, Homogeneous, and Enzymatic Catalysis. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 1210-1217	2.3	4
165	Specific Metal-Support Interactions between Nanoparticle Layers for Catalysts with Enhanced Methanol Oxidation Activity. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5391-5398	13.1	44
164	The Methanol Economy: Methane and Carbon Dioxide Conversion. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 530-541	2.3	35
163	Surface Structures of Model Metal Catalysts in Reactant Gases. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 425-431	3.4	4
162	Molecular Orientations Change Reaction Kinetics and Mechanism: A Review on Catalytic Alcohol Oxidation in Gas Phase and Liquid Phase on Size-Controlled Pt Nanoparticles. <i>Catalysts</i> , <b>2018</b> , 8, 226	4	12
161	Bioinspired Metal-Organic Framework Catalysts for Selective Methane Oxidation to Methanol. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 18208-18216	16.4	176
160	Acidic effect of porous alumina as supports for Pt nanoparticle catalysts in n-hexane reforming. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 3295-3303	5.5	9
159	Platinum and Other Transition Metal Nanoclusters (Pd, Rh) Stabilized by PAMAM Dendrimer as Excellent Heterogeneous Catalysts: Application to the Methylcyclopentane (MCP) Hydrogenative Isomerization. <i>Nano Letters</i> , <b>2017</b> , 17, 1853-1862	11.5	54
158	Activation of Tungsten Oxide for Propane Dehydrogenation and Its High Catalytic Activity and Selectivity. <i>Catalysis Letters</i> , <b>2017</b> , 147, 622-632	2.8	29
157	Fluorinated End-Groups in Electrolytes Induce Ordered Electrolyte/Anode Interface Even at Open-Circuit Potential as Revealed by Sum Frequency Generation Vibrational Spectroscopy. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602060	21.8	26
156	A Comparison of Photocatalytic Activities of Gold Nanoparticles Following Plasmonic and Interband Excitation and a Strategy for Harnessing Interband Hot Carriers for Solution Phase Photocatalysis. <i>ACS Central Science</i> , <b>2017</b> , 3, 482-488	16.8	111
155	Tandem Catalysis for CO Hydrogenation to C-C Hydrocarbons. <i>Nano Letters</i> , <b>2017</b> , 17, 3798-3802	11.5	124
154	Evidence of Structure Sensitivity in the Fischer-Tropsch Reaction on Model Cobalt Nanoparticles by Time-Resolved Chemical Transient Kinetics. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 7415-7419	16.4	38
153	Evidence of Structure Sensitivity in the Fischer-Tropsch Reaction on Model Cobalt Nanoparticles by Time-Resolved Chemical Transient Kinetics. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7523-7527	3.6	5
152	Alcohol Oxidation at Platinum-Gas and Platinum-Liquid Interfaces: The Effect of Platinum Nanoparticle Size, Water Coadsorption, and Alcohol Concentration. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 7365-7371	3.8	15
151	Site-Selective Oxidative Coupling Reactions for the Attachment of Enzymes to Glass Surfaces through DNA-Directed Immobilization. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1967-1974	16.4	34

150	New Insights into Aldol Reactions of Methyl Isocynoacetate Catalyzed by Heterogenized Homogeneous Catalysts. <i>Nano Letters</i> , <b>2017</b> , 17, 584-589	11.5	16
149	Hydroisomerization of n-Hexane Using Acidified Metal-Organic Framework and Platinum Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 12382-12385	16.4	53
148	Dendrimer-Stabilized Metal Nanoparticles as Efficient Catalysts for Reversible Dehydrogenation/Hydrogenation of N-Heterocycles. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 18084-18092	16.4	110
147	Supported Dendrimer-Encapsulated Metal Clusters: Toward Heterogenizing Homogeneous Catalysts. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 1894-1901	24.3	94
146	Anisotropic phase segregation and migration of Pt in nanocrystals en route to nanoframe catalysts. <i>Nature Materials</i> , <b>2016</b> , 15, 1188-1194	27	205
145	In Situ Spectroscopic Investigation into the Active Sites for Crotonaldehyde Hydrogenation at the Pt Nanoparticle/TiO <sub>2</sub> Interface. <i>ACS Catalysis</i> , <b>2016</b> , 6, 7140-7147	13.1	41
144	Copper Nanocrystals Encapsulated in Zr-based Metal-Organic Frameworks for Highly Selective CO Hydrogenation to Methanol. <i>Nano Letters</i> , <b>2016</b> , 16, 7645-7649	11.5	285
143	Metal Nanoparticles Catalyzed Selective Carbon-Carbon Bond Activation in the Liquid Phase. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8533-7	16.4	31
142	Dissociative Carbon Dioxide Adsorption and Morphological Changes on Cu(100) and Cu(111) at Ambient Pressures. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8207-11	16.4	74
141	CoRh Nanoparticles for the Hydrogenation of Carbon Monoxide: Catalytic Performance Towards Alcohol Production and Ambient Pressure X-Ray Photoelectron Spectroscopy Study. <i>Catalysis Letters</i> , <b>2016</b> , 146, 1574-1580	2.8	14
140	Hot Electron Surface Chemistry at Oxide/Metal Interfaces: Foundation of Acid-base Catalysis. <i>Catalysis Letters</i> , <b>2016</b> , 146, 1-11	2.8	27
139	Activation of Cu(111) surface by decomposition into nanoclusters driven by CO adsorption. <i>Science</i> , <b>2016</b> , 351, 475-8	33.3	169
138	Ambient Pressure X-ray Photoelectron Spectroscopy for Probing Monometallic, Bimetallic and Oxide-Metal Catalysts Under Reactive Atmospheres and Catalytic Reaction Conditions. <i>Topics in Catalysis</i> , <b>2016</b> , 59, 420-438	2.3	19
137	Product distribution change in the early stages of carbon monoxide hydrogenation over cobalt magnesium Fischer-Tropsch catalyst. <i>Catalysis Today</i> , <b>2016</b> , 272, 69-73	5.3	11
136	Molecular catalysis science: Perspective on unifying the fields of catalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 5159-66	11.5	71
135	Nanocatalysis II: In Situ Surface Probes of Nano-Catalysts and Correlative Structure/Reactivity Studies. <i>Catalysis Letters</i> , <b>2015</b> , 145, 249-271	2.8	27
134	Mesoporous Aluminosilicate Catalysts for the Selective Isomerization of n-Hexane: The Roles of Surface Acidity and Platinum Metal. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 10231-7	16.4	63
133	Reaction of CO with Preadsorbed Oxygen on Low-Index Copper Surfaces: An Ambient Pressure X-ray Photoelectron Spectroscopy and Scanning Tunneling Microscopy Study. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 14669-14674	3.8	39

132	Role of hot electrons and metal-oxide interfaces in surface chemistry and catalytic reactions. <i>Chemical Reviews</i> , <b>2015</b> , 115, 2781-817	68.1	230
131	High-performance hybrid oxide catalyst of manganese and cobalt for low-pressure methanol synthesis. <i>Nature Communications</i> , <b>2015</b> , 6, 6538	17.4	106
130	Catalyst Chemical State during CO Oxidation Reaction on Cu(111) Studied with Ambient-Pressure X-ray Photoelectron Spectroscopy and Near Edge X-ray Adsorption Fine Structure Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11186-90	16.4	106
129	The Frontiers of Catalysis Science and Future Challenges. <i>Catalysis Letters</i> , <b>2015</b> , 145, 1-2	2.8	15
128	Nanocatalysis I: Synthesis of Metal and Bimetallic Nanoparticles and Porous Oxides and Their Catalytic Reaction Studies. <i>Catalysis Letters</i> , <b>2015</b> , 145, 233-248	2.8	95
127	Polymer-Encapsulated Metallic Nanoparticles as a Bridge Between Homogeneous and Heterogeneous Catalysis. <i>Catalysis Letters</i> , <b>2015</b> , 145, 126-138	2.8	53
126	Hierarchically Nanoporous Zeolites and Their Heterogeneous Catalysis: Current Status and Future Perspectives. <i>Catalysis Letters</i> , <b>2015</b> , 145, 193-213	2.8	72
125	Silica-Supported Cationic Gold(I) Complexes as Heterogeneous Catalysts for Regio- and Enantioselective Lactonization Reactions. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7083-6	16.4	86
124	Chemical Environment Control and Enhanced Catalytic Performance of Platinum Nanoparticles Embedded in Nanocrystalline Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7810-6	16.4	241
123	Atomic Structure of Pt <sub>3</sub> Ni Nanoframe Electrocatalysts by in Situ X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15817-24	16.4	163
122	Atomic Scale Foundation of Covalent and Acid-Base Catalysis in Reaction Selectivity and Turnover Rate. <i>Topics in Catalysis</i> , <b>2015</b> , 58, 184-189	2.3	1
121	Chemical-Reaction-Induced Hot Electron Flows on Platinum Colloid Nanoparticles under Hydrogen Oxidation: Impact of Nanoparticle Size. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 2370-2374	3.6	6
120	In situ IR and X-ray high spatial-resolution microspectroscopy measurements of multistep organic transformation in flow microreactor catalyzed by Au nanoclusters. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 3624-9	16.4	66
119	Evidence of highly active cobalt oxide catalyst for the Fischer-Tropsch synthesis and CO <sub>2</sub> hydrogenation. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 2260-3	16.4	173
118	Cobalt Particle Size Effects in the Fischer-Tropsch Synthesis and in the Hydrogenation of CO <sub>2</sub> Studied with Nanoparticle Model Catalysts on Silica. <i>Topics in Catalysis</i> , <b>2014</b> , 57, 500-507	2.3	54
117	Effects of Nanoparticle Size and Metal/Support Interactions in Pt-Catalyzed Methanol Oxidation Reactions in Gas and Liquid Phases. <i>Catalysis Letters</i> , <b>2014</b> , 144, 1930-1938	2.8	26
116	Recovery of Pt Surfaces for Ethylene Hydrogenation-Based Active Site Determination. <i>Catalysis Letters</i> , <b>2014</b> , 144, 1151-1158	2.8	9
115	Selective Amplification of C=O Bond Hydrogenation on Pt/TiO <sub>2</sub> : Catalytic Reaction and Sum-Frequency Generation Vibrational Spectroscopy Studies of Crotonaldehyde Hydrogenation. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 3473-3476	3.6	32

114	Colloidal Metal Nanocatalysts: Synthesis, Characterization, and Catalytic Applications. <i>Journal of Cluster Science</i> , <b>2014</b> , 25, 83-114	3	52
113	Structure and chemical state of the Pt(557) surface during hydrogen oxidation reaction studied by in situ scanning tunneling microscopy and X-ray photoelectron spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 12560-3	16.4	23
112	Promotion of Hydrogenation of Organic Molecules by Incorporating Iron into Platinum Nanoparticle Catalysts: Displacement of Inactive Reaction Intermediates. <i>ACS Catalysis</i> , <b>2013</b> , 3, 2371-2375	12.1	18
111	Enhanced CO oxidation rates at the interface of mesoporous oxides and Pt nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16689-96	16.4	311
110	Concluding remarks. <i>Faraday Discussions</i> , <b>2013</b> , 162, 395-401	3.6	
109	Preparation of mesoporous oxides and their support effects on Pt nanoparticle catalysts in catalytic hydrogenation of furfural. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 392, 122-128	9.3	75
108	Influence of size-induced oxidation state of platinum nanoparticles on selectivity and activity in catalytic methanol oxidation in the gas phase. <i>Nano Letters</i> , <b>2013</b> , 13, 2976-9	11.5	83
107	Investigations of Structure Sensitivity in Heterogeneous Catalysis: From Single Crystals to Monodisperse Nanoparticles. <i>Topics in Catalysis</i> , <b>2013</b> , 56, 1277-1283	2.3	37
106	Isomerization of n-Hexane Catalyzed by Supported Monodisperse PtRh Bimetallic Nanoparticles. <i>Catalysis Letters</i> , <b>2013</b> , 143, 907-911	2.8	17
105	The Role of an Organic Cap in Nanoparticle Catalysis: Reversible Restructuring of Carbonaceous Material Controls Catalytic Activity of Platinum Nanoparticles for Ethylene Hydrogenation and Methanol Oxidation. <i>Catalysis Letters</i> , <b>2012</b> , 142, 1286-1294	2.8	48
104	Sum Frequency Generation Vibrational Spectroscopy of Colloidal Platinum Nanoparticle Catalysts: Disorder versus Removal of Organic Capping. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 17540-17546	3.8	40
103	Furfuraldehyde hydrogenation on titanium oxide-supported platinum nanoparticles studied by sum frequency generation vibrational spectroscopy: acid-base catalysis explains the molecular origin of strong metal-support interactions. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 14208-16	16.4	174
102	Adsorption of Amino Acids and Dipeptides to the Hydrophobic Polystyrene Interface Studied by SFG and QCM: The Special Case of Phenylalanine. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 9947-9954	3.8	21
101	In Situ Surface and Reaction Probe Studies with Model Nanoparticle Catalysts. <i>ACS Catalysis</i> , <b>2012</b> , 2, 2250-2258	13.1	33
100	Size and Shape Control of Metal Nanoparticles for Reaction Selectivity in Catalysis. <i>ChemCatChem</i> , <b>2012</b> , 4, 1512-1524	5.2	376
99	High structure sensitivity of vapor-phase furfural decarbonylation/hydrogenation reaction network as a function of size and shape of Pt nanoparticles. <i>Nano Letters</i> , <b>2012</b> , 12, 5196-201	11.5	161
98	Formation of nanometer-sized surface platinum oxide clusters on a stepped Pt(557) single crystal surface induced by oxygen: a high-pressure STM and ambient-pressure XPS study. <i>Nano Letters</i> , <b>2012</b> , 12, 1491-7	11.5	88
97	Monodisperse Metal Nanoparticle Catalysts: Synthesis, Characterizations, and Molecular Studies Under Reaction Conditions. <i>Topics in Catalysis</i> , <b>2012</b> , 55, 1257-1275	2.3	26

96	Reforming of C6 Hydrocarbons Over Model Pt Nanoparticle Catalysts. <i>Topics in Catalysis</i> , <b>2012</b> , 55, 723-730	18
95	Impact of surface chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 917-24	11.5 162
94	Rh <sub>1-x</sub> Pd <sub>x</sub> Nanoparticle Composition Dependence in CO Oxidation by NO. <i>Catalysis Letters</i> , <b>2011</b> , 141, 235-241	2.8 28
93	Surface Composition and Catalytic Evolution of Au <sub>x</sub> Pd <sub>1-x</sub> (x = 0.25, 0.50 and 0.75) Nanoparticles Under CO/O <sub>2</sub> Reaction in Torr Pressure Regime and at 200 °C. <i>Catalysis Letters</i> , <b>2011</b> , 141, 633-640	2.8 58
92	CO <sub>2</sub> Hydrogenation Studies on Co and CoPt Bimetallic Nanoparticles Under Reaction Conditions Using TEM, XPS and NEXAFS. <i>Topics in Catalysis</i> , <b>2011</b> , 54, 778-785	2.3 88
91	Bestimmung der Struktur, Zusammensetzung und Dynamiken molekularer Oberflächen unter Reaktionsbedingungen bei hohen Drücken und an der Fest-flüssig-Phasengrenzfläche. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 10298-10311	3.6 4
90	Determination of molecular surface structure, composition, and dynamics under reaction conditions at high pressures and at the solid-liquid interface. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 10116-29	16.4 39
89	A Pt-cluster-based heterogeneous catalyst for homogeneous catalytic reactions: X-ray absorption spectroscopy and reaction kinetic studies of their activity and stability against leaching. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13527-33	16.4 88
88	An SFG study of interfacial amino acids at the hydrophilic SiO <sub>2</sub> and hydrophobic deuterated polystyrene surfaces. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 6243-53	16.4 44
87	Spectroscopic Study of Platinum and Rhodium Dendrimer (PAMAM G4OH) Compounds: Structure and Stability. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 4757-4767	3.8 62
86	Rh Thin-Film Nanocatalysts as Chemical Sensors – The Hot Electron Effect. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17660-17664	3.8 22
85	Break-up of stepped platinum catalyst surfaces by high CO coverage. <i>Science</i> , <b>2010</b> , 327, 850-3	33.3 406
84	Molecular studies of model surfaces of metals from single crystals to nanoparticles under catalytic reaction conditions. Evolution from prenatal and postmortem studies of catalysts. <i>Langmuir</i> , <b>2010</b> , 26, 16190-203	4 49
83	Size effect of ruthenium nanoparticles in catalytic carbon monoxide oxidation. <i>Nano Letters</i> , <b>2010</b> , 10, 2709-13	11.5 329
82	Structure Effects on Pyridine Hydrogenation over Pt(111) and Pt(100) Studied with Sum Frequency Generation Vibrational Spectroscopy. <i>Catalysis Letters</i> , <b>2010</b> , 137, 118-122	2.8 16
81	Major Successes of Theory-and-Experiment-Combined Studies in Surface Chemistry and Heterogeneous Catalysis. <i>Topics in Catalysis</i> , <b>2010</b> , 53, 311-325	2.3 41
80	Selective Nanocatalysis of Organic Transformation by Metals: Concepts, Model Systems, and Instruments. <i>Topics in Catalysis</i> , <b>2010</b> , 53, 832-847	2.3 57
79	Dependence of Gas-Phase Crotonaldehyde Hydrogenation Selectivity and Activity on the Size of Pt Nanoparticles (1.7–1.1 nm) Supported on SBA-15. <i>Catalysis Letters</i> , <b>2009</b> , 128, 1-8	2.8 76

78	Heinz Heinemann. The Berkeley Years (1978-1993). <i>Catalysis Letters</i> , <b>2009</b> , 133, 232-233	2.8	
77	Heinz Heinemann's Legacy at ExxonMobil: An Illustrious Career in Industrial Catalysis. <i>Catalysis Letters</i> , <b>2009</b> , 133, 227	2.8	5
76	The Role of Organic Capping Layers of Platinum Nanoparticles in Catalytic Activity of CO Oxidation. <i>Catalysis Letters</i> , <b>2009</b> , 129, 1-6	2.8	149
75	Reaction selectivity in heterogeneous catalysis. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2009</b> , 96, 191-208		67
74	Sum Frequency Generation and Catalytic Reaction Studies of the Removal of Organic Capping Agents from Pt Nanoparticles by UV/Ozone Treatment. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 6150-6155	3.8	230
73	Advancing the frontiers in nanocatalysis, biointerfaces, and renewable energy conversion by innovations of surface techniques. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 16589-605	16.4	457
72	Molecular surface chemistry by metal single crystals and nanoparticles from vacuum to high pressure. <i>Chemical Society Reviews</i> , <b>2008</b> , 37, 2155-62	58.5	142
71	Sum Frequency Generation Vibrational Spectroscopy of Pyridine Hydrogenation on Platinum Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 11865-11868	3.8	36
70	Evolution of the surface science of catalysis from single crystals to metal nanoparticles under pressure. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 182504	3.9	56
69	The effects of oxygen plasma on the chemical composition and morphology of the Ru capping layer of the extreme ultraviolet mask blanks. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2008</b> , 26, 2225-2229		9
68	Single Crystal Surfaces <b>2008</b> , 1259		2
67	Compensation Effect of Benzene Hydrogenation on Pt(111) and Pt(100) Analyzed by the Selective Energy Transfer Model. <i>Catalysis Letters</i> , <b>2008</b> , 121, 173-178	2.8	13
66	Preparation of size-tunable, highly monodisperse PVP-protected Pt-nanoparticles by seed-mediated growth. <i>Journal of Nanoparticle Research</i> , <b>2008</b> , 10, 1063-1069	2.3	71
65	The 13th International Symposium on Relations Between Homogeneous and Heterogeneous Catalysis—An Introduction. <i>Topics in Catalysis</i> , <b>2008</b> , 48, 1-7	2.3	16
64	Colloid Science of Metal Nanoparticle Catalysts in 2D and 3D Structures. Challenges of Nucleation, Growth, Composition, Particle Shape, Size Control and Their Influence on Activity and Selectivity. <i>Topics in Catalysis</i> , <b>2008</b> , 49, 126-135	2.3	253
63	Molecular factors of catalytic selectivity. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 9212-28	16.4	392
62	The evolution of model catalytic systems; studies of structure, bonding and dynamics from single crystal metal surfaces to nanoparticles, and from low pressure (10 <sup>-3</sup> Torr) to liquid interfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 3500-13	3.6	141
61	Peptides Adsorbed on Hydrophobic Surfaces—A Sum Frequency Generation Vibrational Spectroscopy and Modeling Study. <i>Israel Journal of Chemistry</i> , <b>2007</b> , 47, 51-58	3.4	31



60	The genesis and importance of oxide-metal interface controlled heterogeneous catalysis; the catalytic nanodiode. <i>Topics in Catalysis</i> , <b>2007</b> , 46, 217-222	2.3	67
59	Pre-prepared platinum nanoparticles supported on SBA-15 [preparation, pretreatment conditions and catalytic properties. <i>Catalysis Letters</i> , <b>2007</b> , 113, 19-28	2.8	27
58	The impact of surface science on the commercialization of chemical processes. <i>Catalysis Letters</i> , <b>2007</b> , 115, 87-98	2.8	43
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