

J Will Medlin

List of Publications by Year in descending order

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136
papers

6,087
citations

71102

41
h-index

79698

73
g-index

138
all docs

138
docs citations

138
times ranked

6482
citing authors

#	ARTICLE	IF	CITATIONS
1	Bifunctional Catalysts for Upgrading of Biomass-Derived Oxygenates: A Review. ACS Catalysis, 2016, 6, 5026-5043.	11.2	372
2	Controlled selectivity for palladium catalysts using self-assembled monolayers. Nature Materials, 2010, 9, 853-858.	27.5	358
3	Controlling the Surface Environment of Heterogeneous Catalysts Using Self-Assembled Monolayers. Accounts of Chemical Research, 2014, 47, 1438-1445.	15.6	262
4	Control of Metal Catalyst Selectivity through Specific Noncovalent Molecular Interactions. Journal of the American Chemical Society, 2014, 136, 520-526.	13.7	246
5	Scaling relations between adsorption energies for computational screening and design of catalysts. Catalysis Science and Technology, 2014, 4, 3748-3761.	4.1	225
6	Directing reaction pathways by catalyst active-site selection using self-assembled monolayers. Nature Communications, 2013, 4, 2448.	12.8	180
7	Organic Thiol Modified Pt/TiO ₂ Catalysts to Control Chemoselective Hydrogenation of Substituted Nitroarenes. ACS Catalysis, 2012, 2, 2079-2081.	11.2	159
8	Stabilizing Ni Catalysts by Molecular Layer Deposition for Harsh, Dry Reforming Conditions. ACS Catalysis, 2014, 4, 2714-2717.	11.2	150
9	Adsorption and Reaction of Furfural and Furfuryl Alcohol on Pd(111): Unique Reaction Pathways for Multifunctional Reagents. ACS Catalysis, 2011, 1, 1272-1283.	11.2	145
10	Theoretical Study of the Adsorption and Dissociation of Oxygen on Pt(111) in the Presence of Homogeneous Electric Fields. Journal of Physical Chemistry B, 2005, 109, 6304-6310.	2.6	127
11	Effects of Electronic Structure Modifications on the Adsorption of Oxygen Reduction Reaction Intermediates on Model Pt(111)-Alloy Surfaces. Journal of Physical Chemistry C, 2007, 111, 17052-17060.	3.1	127
12	Enhanced Hydrodeoxygenation of <i>m</i> -Cresol over Bimetallic Pt-Mo Catalysts through an Oxophilic Metal-Induced Tautomerization Pathway. ACS Catalysis, 2016, 6, 4356-4368.	11.2	117
13	Theoretical Study of the Adsorption of Acetylene on the (111) Surfaces of Pd, Pt, Ni, and Rh. Journal of Physical Chemistry B, 2003, 107, 217-223.	2.6	107
14	Effects of Thiol Modifiers on the Kinetics of Furfural Hydrogenation over Pd Catalysts. ACS Catalysis, 2014, 4, 3123-3131.	11.2	106
15	Understanding and Controlling Reactivity of Unsaturated Oxygenates and Polyols on Metal Catalysts. ACS Catalysis, 2011, 1, 1284-1297.	11.2	101
16	Mechanistic Study of the Electrochemical Oxygen Reduction Reaction on Pt(111) Using Density Functional Theory. Journal of Physical Chemistry B, 2006, 110, 15338-15344.	2.6	91
17	Enhanced dry reforming of methane on Ni and Ni-Pt catalysts synthesized by atomic layer deposition. Applied Catalysis A: General, 2015, 492, 107-116.	4.3	89
18	Elucidating Acidic Electro-Oxidation Pathways of Furfural on Platinum. ACS Catalysis, 2019, 9, 10305-10316.	11.2	85

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19	The selective oxidation of ethylene glycol and 1,2-propanediol on Au, Pd, and Au-Pd bimetallic catalysts. <i>Journal of Catalysis</i> , 2013, 307, 111-120.	6.2	82
20	Effect of water on formic acid photocatalytic decomposition on TiO ₂ and Pt/TiO ₂ . <i>Journal of Catalysis</i> , 2010, 275, 294-299.	6.2	77
21	Control of interfacial acid-metal catalysis with organic monolayers. <i>Nature Catalysis</i> , 2018, 1, 148-155.	34.4	74
22	Synthesis of supported Ni catalysts by atomic layer deposition. <i>Journal of Catalysis</i> , 2013, 303, 9-15.	6.2	69
23	Catalyst design using an inverse strategy: From mechanistic studies on inverted model catalysts to applications of oxide-coated metal nanoparticles. <i>Surface Science Reports</i> , 2018, 73, 117-152.	7.2	68
24	A density functional theory study of H ₂ S decomposition on the (111) surfaces of model Pd-alloys. <i>Surface Science</i> , 2007, 601, 5382-5393.	1.9	65
25	Multicomponent Catalysts: Limitations and Prospects. <i>ACS Catalysis</i> , 2018, 8, 3202-3208.	11.2	64
26	Effect of Surface Hydrophobicity of Pd/Al ₂ O ₃ on Vanillin Hydrodeoxygenation in a Water/Oil System. <i>ACS Catalysis</i> , 2018, 8, 11165-11173.	11.2	63
27	Directing Reaction Pathways through Controlled Reactant Binding at Pd-TiO ₂ Interfaces. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6594-6598.	13.8	60
28	Controlling Nanoscale Properties of Supported Platinum Catalysts through Atomic Layer Deposition. <i>ACS Catalysis</i> , 2015, 5, 1344-1352.	11.2	59
29	Selective Hydrogenation of Polyunsaturated Fatty Acids Using Alkanethiol Self-Assembled Monolayer-Coated Pd/Al ₂ O ₃ Catalysts. <i>ACS Catalysis</i> , 2013, 3, 2041-2044.	11.2	58
30	Controlling surface crowding on a Pd catalyst with thiolate self-assembled monolayers. <i>Journal of Catalysis</i> , 2013, 303, 92-99.	6.2	58
31	Synergistic Effects of Alloying and Thiolate Modification in Furfural Hydrogenation over Cu-Based Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4110-4114.	4.6	56
32	A Unified Picture of Adsorption on Transition Metals through Different Atoms. <i>Journal of the American Chemical Society</i> , 2014, 136, 9272-9275.	13.7	55
33	Oxametallacycle formation via ring-opening of 1-epoxy-3-butene on Ag(110): a combined experimental/theoretical approach. <i>Journal of Molecular Catalysis A</i> , 2000, 163, 129-145.	4.8	54
34	Adsorption Orientation-Induced Selectivity Control of Reactions of Benzyl Alcohol on Pd(111). <i>Journal of Physical Chemistry C</i> , 2012, 116, 13654-13660.	3.1	54
35	Effect of water on the adsorbed structure of formic acid on TiO ₂ anatase (101). <i>Journal of Catalysis</i> , 2011, 278, 321-328.	6.2	53
36	The Formation of Epoxides from Reactions of Oxametallacycles on Ag(110): A Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2001, 105, 10054-10061.	2.6	50

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37	On the Reaction Mechanism of Direct H ₂ O ₂ Formation over Pd Catalysts. ACS Catalysis, 2021, 11, 2735-2745.	11.2	50
38	Synthesis of Oxametallacycles from 2-Iodoethanol on Ag(111) and the Structure Dependence of Their Reactivity. Langmuir, 2002, 18, 5197-5204.	3.5	48
39	Promotion of Activity and Selectivity by Alkanethiol Monolayers for Pd-Catalyzed Benzyl Alcohol Hydrodeoxygenation. Journal of Physical Chemistry C, 2014, 118, 23783-23789.	3.1	46
40	Surface-level mechanistic studies of adsorbate-adsorbate interactions in heterogeneous catalysis by metals. Surface Science Reports, 2011, 66, 173-184.	7.2	45
41	Control of Molecular Bonding Strength on Metal Catalysts with Organic Monolayers for CO ₂ Reduction. Journal of the American Chemical Society, 2020, 142, 5184-5193.	13.7	45
42	Catalyst Site Selection via Control over Noncovalent Interactions in Self-Assembled Monolayers. ACS Catalysis, 2016, 6, 5086-5094.	11.2	44
43	Effects of Water and Formic Acid Adsorption on the Electronic Structure of Anatase TiO ₂ (101). Journal of Physical Chemistry C, 2011, 115, 2738-2749.	3.1	41
44	Theoretical and experimental studies of Ag-Pt interactions for supported Ag-Pt bimetallic catalysts. Surface Science, 2009, 603, 690-696.	1.9	40
45	Deuterium Kinetic Isotope Effects in Butadiene Epoxidation over Unpromoted and Cs-Promoted Silver Catalysts. Journal of Catalysis, 2001, 204, 71-76.	6.2	39
46	Tunable Catalytic Performance of Palladium Nanoparticles for H ₂ O ₂ Direct Synthesis via Surface-Bound Ligands. ACS Catalysis, 2020, 10, 5202-5207.	11.2	39
47	Control of Pd catalyst selectivity with mixed thiolate monolayers. Journal of Catalysis, 2016, 339, 38-46.	6.2	38
48	Surface Chemistry of Aromatic Reactants on Pt- and Mo-Modified Pt Catalysts. Journal of Physical Chemistry C, 2016, 120, 26824-26833.	3.1	38
49	Use of Oxygen-18 to Determine Kinetics of Butadiene Epoxidation over Cs-Promoted, Ag Catalysts. Journal of Catalysis, 2001, 203, 362-368.	6.2	37
50	Controlling Catalytic Selectivity via Adsorbate Orientation on the Surface: From Furfural Deoxygenation to Reactions of Epoxides. Journal of Physical Chemistry Letters, 2015, 6, 1348-1356.	4.6	37
51	The adsorption and reaction of ethylene glycol and 1,2-propanediol on Pd(111): A TPD and HREELS study. Surface Science, 2010, 604, 1558-1564.	1.9	36
52	Site-Specific Scaling Relations for Hydrocarbon Adsorption on Hexagonal Transition Metal Surfaces. Journal of Physical Chemistry C, 2013, 117, 20078-20088.	3.1	36
53	Predicting and Comparing C-M and O-M Bond Strengths for Adsorption on Transition Metal Surfaces. Journal of Physical Chemistry C, 2014, 118, 2666-2672.	3.1	36
54	Enhanced Hydrothermal Stability of β -Al ₂ O ₃ Catalyst Supports with Alkyl Phosphonate Coatings. Langmuir, 2018, 34, 3619-3625.	3.5	35

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55	Benzyl Alcohol Oxidation on Pd(111): Aromatic Binding Effects on Alcohol Reactivity. <i>Langmuir</i> , 2014, 30, 4642-4653.	3.5	34
56	Phosphonic acid promotion of supported Pd catalysts for low temperature vanillin hydrodeoxygenation in ethanol. <i>Applied Catalysis A: General</i> , 2018, 561, 1-6.	4.3	34
57	Understanding the Surface Reactivity of Ligand-Protected Metal Nanoparticles for Biomass Upgrading. <i>ACS Catalysis</i> , 2020, 10, 5462-5474.	11.2	32
58	Stabilities of Substituted Oxametallacycle Intermediates: Implications for Regioselectivity of Epoxide Ring Opening and Olefin Epoxidation. <i>Journal of Physical Chemistry B</i> , 1999, 103, 11169-11175.	2.6	30
59	Controlling the Surface Reactivity of Titania via Electronic Tuning of Self-Assembled Monolayers. <i>ACS Catalysis</i> , 2017, 7, 8351-8357.	11.2	30
60	Electro-oxidation of furfural on gold is limited by furoate self-assembly. <i>Journal of Catalysis</i> , 2020, 391, 327-335.	6.2	30
61	Adsorption of Oxygenates on Alkanethiol-Functionalized Pd(111) Surfaces: Mechanistic Insights into the Role of Self-Assembled Monolayers on Catalysis. <i>Langmuir</i> , 2011, 27, 6731-6737.	3.5	28
62	Controlling Catalyst-Phase Selectivity in Complex Mixtures with Amphiphilic Janus Particles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2338-2345.	8.0	28
63	Enhancing Au/TiO ₂ Catalyst Thermostability and Coking Resistance with Alkyl Phosphonic-Acid Self-Assembled Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41289-41296.	8.0	26
64	Phosphonic acid modifiers for enhancing selective hydrodeoxygenation over Pt catalysts: The role of the catalyst support. <i>Journal of Catalysis</i> , 2019, 372, 311-320.	6.2	26
65	Adsorption and Reaction of 1-Epoxy-3-butene on Pt(111): Implications for Heterogeneous Catalysis of Unsaturated Oxygenates. <i>Journal of the American Chemical Society</i> , 2008, 130, 5507-5514.	13.7	25
66	An experimental approach for controlling confinement effects at catalyst interfaces. <i>Chemical Science</i> , 2020, 11, 11024-11029.	7.4	24
67	Experimental and Theoretical Probes of the Structure of Oxametallacycle Intermediates Derived from 1-Epoxy-3-butene on Ag(110). <i>Journal of Physical Chemistry B</i> , 2001, 105, 3769-3775.	2.6	23
68	A theoretical study of the influence of dopant concentration on the hydration properties of yttrium-doped barium cerate. <i>Solid State Ionics</i> , 2011, 204-205, 27-34.	2.7	23
69	The response of palladium metal-insulator-semiconductor devices to hydrogen-oxygen mixtures: comparisons between kinetic models and experiment. <i>Sensors and Actuators B: Chemical</i> , 2003, 96, 290-297.	7.8	22
70	Common Decomposition Pathways of 1-Epoxy-3-butene and 2-Butenal on Pd(111). <i>Journal of Physical Chemistry C</i> , 2008, 112, 20406-20412.	3.1	22
71	O H versus C H bond scission sequence in ethanol decomposition on Pd(111). <i>Surface Science</i> , 2014, 619, 114-118.	1.9	22
72	Stability of self-assembled monolayer coated Pt/Al ₂ O ₃ catalysts for liquid phase hydrogenation. <i>Journal of Molecular Catalysis A</i> , 2015, 396, 188-195.	4.8	22

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73	Directing Reaction Pathways through Controlled Reactant Binding at Pd/TiO ₂ Interfaces. <i>Angewandte Chemie</i> , 2017, 129, 6694-6698.	2.0	22
74	Enhancing Cooperativity in Bifunctional Acid-Pd Catalysts with Carboxylic Acid-Functionalized Organic Monolayers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6637-6647.	3.1	22
75	Adsorption and decomposition of SiH ₄ on Pd(111). <i>Surface Science</i> , 2008, 602, 693-701.	1.9	20
76	Ring-Opening and Oxidation Pathways of Furanic Oxygenates on Oxygen-Precovered Pd(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 27933-27943.	3.1	20
77	Hydrocarbon adsorption in an aqueous environment: A computational study of alkyls on Cu(111). <i>Journal of Chemical Physics</i> , 2016, 145, 074702.	3.0	20
78	Experimental and computational investigations of sulfur-resistant bimetallic catalysts for reforming of biomass gasification products. <i>Journal of Catalysis</i> , 2011, 282, 249-257.	6.2	19
79	Liquid- and vapor-phase hydrogenation of 1-epoxy-3-butene using self-assembled monolayer coated palladium and platinum catalysts. <i>Applied Catalysis A: General</i> , 2012, 445-446, 102-106.	4.3	19
80	Computational investigation of defect segregation at the (001) surface of BaCeO ₃ and BaZrO ₃ : the role of metal-oxygen bond strength in controlling vacancy segregation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2840.	10.3	18
81	Effects of Phosphonic Acid Monolayers on the Dehydration Mechanism of Aliphatic Alcohols on TiO ₂ . <i>ACS Catalysis</i> , 2019, 9, 7808-7816.	11.2	18
82	Reaction paths for hydrodeoxygenation of furfuryl alcohol at TiO ₂ /Pd interfaces. <i>Journal of Catalysis</i> , 2019, 377, 28-40.	6.2	17
83	Effects of a polyimide coating on the hydrogen selectivity of MIS sensors. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 86-92.	7.8	16
84	NiW and NiRu Bimetallic Catalysts for Ethylene Steam Reforming: Alternative Mechanisms for Sulfur Resistance. <i>Catalysis Letters</i> , 2012, 142, 718-727.	2.6	16
85	Hydrogenation of Cinnamaldehyde over Pd/Al ₂ O ₃ Catalysts Modified with Thiol Monolayers. <i>Topics in Catalysis</i> , 2014, 57, 1505-1511.	2.8	16
86	Thermal Activation of tert-Butyl Nitrite on Pt(111): tert-Butoxy Dehydrogenation and Oxametallacycle Formation. <i>Langmuir</i> , 2001, 17, 798-806.	3.5	15
87	Effects of competitive carbon monoxide adsorption on the hydrogen response of metal-insulator-semiconductor sensors: the role of metal film morphology. <i>Journal of Applied Physics</i> , 2003, 93, 2267-2274.	2.5	15
88	Selective acetylene detection through surface modification of metal-insulator-semiconductor sensors with alkanethiolate monolayers. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 315-319.	7.8	15
89	Experimental and modeling studies of acetylene detection in hydrogen/acetylene mixtures on PdM bimetallic metal-insulator-semiconductor devices. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 924-931.	7.8	15
90	Effects of metal oxide surface doping with phosphonic acid monolayers on alcohol dehydration activity and selectivity. <i>Applied Catalysis A: General</i> , 2019, 571, 102-106.	4.3	15

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91	Pretreatment Effects on the Surface Chemistry of Small Oxygenates on Molybdenum Trioxide. <i>ACS Catalysis</i> , 2020, 10, 8187-8200.	11.2	15
92	Adsorption and reaction of SiH ₄ and oxygen on Pd(111). <i>Surface Science</i> , 2008, 602, 786-794.	1.9	14
93	Interactions of Hydrogen, CO, Oxygen, and Water with Molybdenum-Modified Pt(111). <i>Journal of Physical Chemistry C</i> , 2013, 117, 26716-26724.	3.1	14
94	Role of tungsten modifiers in bimetallic catalysts for enhanced hydrodeoxygenation activity and selectivity. <i>Catalysis Science and Technology</i> , 2020, 10, 414-423.	4.1	14
95	Organic Modifiers Promote Furfuryl Alcohol Ring Hydrogenation via Surface Hydrogen-Bonding Interactions. <i>ACS Catalysis</i> , 2021, 11, 3730-3739.	11.2	14
96	Adsorption and Decomposition of 2(5H)-Furanone on Pd(111) and Pt(111): Comparison of Ring-Opening Pathways of an Unsaturated Cyclic Ester. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14900-14907.	3.1	13
97	A density functional study of C1-C4 alkyl adsorption on Cu(111). <i>Journal of Chemical Physics</i> , 2012, 136, 204710.	3.0	13
98	Surface Chemistry of 2-Iodoethanol on Pd(111): Orientation of Surface-Bound Alcohol Controls Selectivity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4201-4208.	3.1	13
99	Application of thiolate self-assembled monolayers in selective alcohol oxidation for suppression of Pd catalyst deactivation. <i>Journal of Catalysis</i> , 2016, 344, 722-728.	6.2	13
100	Thermodynamics of Alkanethiol Self-Assembled Monolayer Assembly on Pd Surfaces. <i>Langmuir</i> , 2018, 34, 6346-6357.	3.5	13
101	On-the-fly Catalyst Modification: Strategy to Improve Catalytic Processes Selectivity and Understanding. <i>ChemCatChem</i> , 2019, 11, 3355-3365.	3.7	13
102	Adsorption and Reactivity of 2,3-Dihydrofuran and 2,5-Dihydrofuran on Pd(111): Influence of the C-Position on the Reactivity of Cyclic Ethers. <i>Langmuir</i> , 2010, 26, 13320-13332.	3.5	12
103	A Simple, Accurate Model for Alkyl Adsorption on Late Transition Metals. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2835-2843.	3.1	12
104	The influence of oxygen on the surface chemistry of 1,2-propanediol on Pd(111). <i>Surface Science</i> , 2014, 619, 30-38.	1.9	12
105	An ab Initio Investigation of Proton Stability at BaZrO ₃ Interfaces. <i>Chemistry of Materials</i> , 2014, 26, 4915-4924.	6.7	12
106	Enhancing sintering resistance of atomically dispersed catalysts in reducing environments with organic monolayers. <i>Green Energy and Environment</i> , 2022, 7, 1263-1269.	8.7	12
107	Controlling Heterogeneous Catalysis with Organic Monolayers on Metal Oxides. <i>Accounts of Chemical Research</i> , 2021, 54, 4080-4090.	15.6	12
108	Hydrogen Exposure Effects on Pt/Al ₂ O ₃ Catalysts Coated with Thiolate Monolayers. <i>Langmuir</i> , 2014, 30, 14104-14110.	3.5	11

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109	Control of surface alkyl catalysis with thiolate monolayers. <i>Catalysis Science and Technology</i> , 2016, 6, 2413-2418.	4.1	11
110	The reaction of 1-chloro-2-methyl-2-propanol on oxygen-covered Ag(): epoxide formation via a surface chlorohydrin reaction. <i>Surface Science</i> , 2002, 506, 105-118.	1.9	10
111	Application of polymer-coated metal-insulator-semiconductor sensors for the detection of dissolved hydrogen. <i>Applied Physics Letters</i> , 2006, 88, 233507.	3.3	10
112	Adsorption and decomposition of \hat{t} -butyrolactone on Pd(111) and Pt(111). <i>Surface Science</i> , 2010, 604, 98-105.	1.9	10
113	Scaling the rough heights. <i>Nature Chemistry</i> , 2015, 7, 378-380.	13.6	10
114	Furfuryl alcohol deoxygenation, decarbonylation, and ring-opening on Pt(111). <i>Surface Science</i> , 2018, 677, 333-340.	1.9	10
115	Insight into the Oxidation Mechanism of Furanic Compounds on Pt(111). <i>ACS Catalysis</i> , 2019, 9, 11360-11370.	11.2	10
116	Trimethylsilyl functionalization of alumina (\hat{t} -Al ₂ O ₃) increases activity for 1,2-propanediol dehydration. <i>Catalysis Science and Technology</i> , 2016, 6, 5721-5728.	4.1	9
117	Accelerating Electro-oxidation Turnover Rates via Potential-Modulated Stimulation of Electrocatalytic Activity. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19999-20010.	3.7	8
118	Investigation of submonolayer SiOX species formed from oxidation of silane on Pt(111). <i>Surface Science</i> , 2008, 602, 3225-3231.	1.9	7
119	Effects of Ring Structure on the Reaction Pathways of Cyclic Esters and Ethers on Pd(111). <i>Topics in Catalysis</i> , 2010, 53, 1179-1184.	2.8	7
120	Extended Thin-Film Electrocatalyst Structures via Pt Atomic Layer Deposition. <i>ACS Applied Nano Materials</i> , 2018, 1, 6150-6158.	5.0	7
121	Reactivity of Pd@MO ₂ encapsulated catalytic systems for CO oxidation. <i>Catalysis Science and Technology</i> , 2022, 12, 1476-1486.	4.1	7
122	Probing surface-adsorbate interactions through active particle dynamics. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 425-435.	9.4	7
123	NEXAFS investigations of cyclooctatetraene on TiO ₂ (001). <i>Surface Science</i> , 2001, 492, 203-213.	1.9	5
124	Deuterium adsorption on W(100) studied by LEIS and DRS. <i>Surface Science</i> , 2004, 571, 31-40.	1.9	5
125	Density functional theory studies of submonolayer oxidized silicon structures on Pd(111) and Pt(111). <i>Surface Science</i> , 2008, 602, 3603-3610.	1.9	4
126	<i>110th Anniversary:</i> Fabrication of Inverted Pd@TiO ₂ Nanostructures for Selective Catalysis. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4032-4041.	3.7	4

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127	Confinement Effects on Furfuryl Alcohol Reactions over Porous Bilayer Silica-Modified Pd(111). Journal of Physical Chemistry C, 2020, 124, 25437-25446.	3.1	4
128	Altering Linear Scaling Relationships on Metal Catalysts via Ligand-Adsorbate Hydrogen Bonding. Journal of Physical Chemistry C, 2021, 125, 23791-23802.	3.1	4
129	Tuning Gas Adsorption Selectivity and Diffusion Rates in Zeolites with Phosphonic Acid Monolayers. Cell Reports Physical Science, 2020, 1, 100036.	5.6	3
130	Investigating deposition sequence during synthesis of Pd/Al ₂ O ₃ catalysts modified with organic monolayers. Catalysis Science and Technology, 2022, 12, 2306-2314.	4.1	3
131	Profiling of hydrogen in metal-insulator-semiconductor sensors using neutron reflectivity. Applied Physics Letters, 2008, 92, .	3.3	2
132	Hydrocarbon detection via ion implantation in metal-insulator-semiconductor devices. Applied Physics Letters, 2004, 85, 5457-5459.	3.3	1
133	Scalable synthesis of selective hydrodeoxygenation inverted Pd@TiO ₂ nanocatalysts. Journal of Flow Chemistry, 2021, 11, 393.	1.9	1
134	Mechanism of selectivity control for zeolites modified with organic monolayers. Microporous and Mesoporous Materials, 2022, 337, 111913.	4.4	1
135	Virtual Issue: Work from the Organic Reactions Catalysis Society Meeting 2016. Organic Process Research and Development, 2017, 21, 277-278.	2.7	0
136	Effects of Surface Hydrophobicity on Catalytic Transfer Hydrogenation of Styrene with Formic Acid in a Biphasic Mixture. ACS Applied Materials & Interfaces, 2022, 14, 33457-33462.	8.0	0