

Michael Trenary

List of Publications by Year in descending order

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147
papers

3,259
citations

159525

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50
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149
all docs

149
docs citations

149
times ranked

3035
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-space and real-time observation of a plasmon-induced chemical reaction of a single molecule. <i>Science</i> , 2018, 360, 521-526.	6.0	224
2	Symmetry and the Surface Infrared Selection Rule for the determination of the Structure of Molecules on Metal Surfaces. <i>Langmuir</i> , 1994, 10, 3649-3657.	1.6	152
3	Nanoindentation and Raman spectroscopy studies of boron carbide single crystals. <i>Applied Physics Letters</i> , 2002, 81, 3783-3785.	1.5	152
4	Adsorbate ordering processes and infrared spectroscopy: An FTIRAS study of N ₂ chemisorbed on the Ni(110) surface. <i>Journal of Chemical Physics</i> , 1986, 85, 6100-6109.	1.2	100
5	Infrared identification of the low-temperature forms of ethylene adsorbed on platinum/alumina. <i>The Journal of Physical Chemistry</i> , 1988, 92, 5229-5233.	2.9	89
6	An infrared study of NO adsorption at defect sites on Pt(111). <i>Surface Science</i> , 1991, 259, 116-128.	0.8	87
7	Selective Hydrogenation of Acetylene to Ethylene in the Presence of a Carbonaceous Surface Layer on a Pd/Cu(111) Single-Atom Alloy. <i>ACS Catalysis</i> , 2017, 7, 8042-8049.	5.5	82
8	Reversible Control of Hydrogenation of a Single Molecule. <i>Science</i> , 2007, 316, 1883-1886.	6.0	77
9	REFLECTIONABSORPTIONINFRAREDSPECTROSCOPY AND THESTRUCTURE OFMOLECULARADSORBATES ONMETALSURFACES. <i>Annual Review of Physical Chemistry</i> , 2000, 51, 381-403.	4.8	76
10	The thermal decomposition of azomethane on Pt(111). <i>Surface Science</i> , 1995, 341, 282-294.	0.8	64
11	Electron spectroscopy study of SiC. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1984, 2, 1271-1274.	0.9	62
12	Surface chemistry of boron oxidation. 2. The reactions of boron oxides B ₂ O ₂ and B ₂ O ₃ with boron films grown on tantalum(110). <i>Chemistry of Materials</i> , 1993, 5, 199-205.	3.2	62
13	Electronic structure of LiH ₂ O and related neutral molecular complexes, including AlH ₂ O. <i>Journal of Chemical Physics</i> , 1978, 68, 4047-4050.	1.2	61
14	Infrared reflection-absorption study of the adsorbate-substrate stretch of CO on Pt(111). <i>Surface Science</i> , 1989, 214, L237-L245.	0.8	61
15	Direct Pathway to Molecular Photodissociation on Metal Surfaces Using Visible Light. <i>Journal of the American Chemical Society</i> , 2017, 139, 3115-3121.	6.6	60
16	A novel class of molecular complexes: lithium-ammonia, lithium-water, lithium-hydrofluoric acid, lithium-hydrogen sulfide, sodium-water, and sodium-hydrofluoric acid. <i>Journal of the American Chemical Society</i> , 1977, 99, 3885-3886.	6.6	57
17	Surface science studies of metal hexaborides. <i>Science and Technology of Advanced Materials</i> , 2012, 13, 023002.	2.8	55
18	Kinetics of ethylidyne formation on Pt(111) From time-dependent infrared spectroscopy. <i>Chemical Physics Letters</i> , 1989, 154, 511-515.	1.2	49

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19	Surface chemistry of boron oxidation. 1. Reactions of oxygen and water with boron films grown on tantalum(110). Chemistry of Materials, 1993, 5, 192-198.	3.2	45
20	The oxidation of the $\sqrt{2}$ -rhombohedral boron (111) surface. Surface Science, 1991, 255, 245-258.	0.8	44
21	Formation and hydrogenation of ethylidyne on the Pt(111) surface. Surface Science, 2004, 560, L195-L201.	0.8	44
22	Identification of ethylene-derived species on alumina-supported rhodium, iridium, palladium and platinum catalysts by infrared spectroscopy. The Journal of Physical Chemistry, 1991, 95, 6657-6661.	2.9	42
23	X-ray photoelectron spectroscopy investigation of the initial oxygen adsorption sites on the LaB ₆ (100) surface. Surface Science, 1999, 423, L222-L228.	0.8	42
24	Vibrational Analysis of a Chemisorbed Polyatomic Molecule: CH_3O on Cu(100). Journal of Physical Chemistry B, 2000, 104, 2448-2459.	1.2	40
25	Characterization of methylidyne on Pt(111) with infrared spectroscopy. Surface Science, 2004, 573, 310-319.	0.8	39
26	Single-Molecule Study of a Plasmon-Induced Reaction for a Strongly Chemisorbed Molecule. Angewandte Chemie - International Edition, 2020, 59, 7960-7966.	7.2	37
27	Atomically resolved surface structure of LaB ₆ (100). Surface Science, 1992, 265, L227-L232.	0.8	33
28	Synthesis and Characterization of Single-Crystal Strontium Hexaboride Nanowires. Nano Letters, 2008, 8, 3794-3798.	4.5	33
29	Surface chemistry of ethylenediamine (NH ₂ CH ₂ CH ₂ NH ₂) on Pt(111). Surface Science, 2000, 470, L13-L19.	0.8	32
30	Direct Observation of (B ₁₂) ₁₂ Supericosahedra as the Basic Structural Element in YB ₆ . Physical Review Letters, 1996, 77, 4772-4775.	2.9	31
31	Identification and Hydrogenation of C ₂ on Pt(111). Journal of the American Chemical Society, 2005, 127, 17628-17633.	6.6	31
32	Three isomers of the aluminum-acetylene system. Journal of the American Chemical Society, 1979, 101, 1638-1639.	6.6	30
33	Infrared line shapes of ethylidyne on the Pt(111) surface. Journal of Chemical Physics, 1988, 89, 3861-3869.	1.2	30
34	Reversible Hydrogenation of Surface N Atoms To Form NH on Pt(111). Journal of Physical Chemistry B, 2005, 109, 2828-2835.	1.2	29
35	Polarization-Dependent Infrared Spectroscopy of Adsorbed Carbon Monoxide To Probe the Surface of a Pd/Cu(111) Single-Atom Alloy. Journal of Physical Chemistry C, 2017, 121, 9361-9369.	1.5	29
36	An infrared study of the symmetric ν_1 stretch of PF ₃ chemisorbed on the Pt(111) surface. Journal of Chemical Physics, 1988, 89, 3323-3330.	1.2	28

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37	Formation of Methylaminocarbyne from Methyl Isocyanide on the Pt(111) Surface. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5710-5718.	1.2	28
38	Surface chemistry of dimethylamine on Pt(): formation of methylaminocarbyne and its decomposition products. <i>Surface Science</i> , 2002, 519, 40-56.	0.8	27
39	Identification of formate from methanol oxidation on Cu() with infrared spectroscopy. <i>Surface Science</i> , 2002, 504, 208-214.	0.8	25
40	Simultaneous Monitoring of Surface and Gas Phase Species during Hydrogenation of Acetylene over Pt(111) by Polarization-Dependent Infrared Spectroscopy. <i>ACS Catalysis</i> , 2015, 5, 4725-4733.	5.5	25
41	Analysis of dipole-dipole coupling in isotopic mixtures of N ₂ on Ni(110). <i>Journal of Chemical Physics</i> , 1989, 90, 4651-4659.	1.2	24
42	Depth profile of iron in aCaB ₆ crystal. <i>Physical Review B</i> , 2003, 67, .	1.1	24
43	Graphene domain boundaries on Pt(111) as nucleation sites for Pt nanocluster formation. <i>Surface Science</i> , 2012, 606, 1643-1648.	0.8	24
44	Formation of Surface CN from the Coupling of C and N Atoms on Pt(111). <i>Journal of the American Chemical Society</i> , 2003, 125, 15758-15759.	6.6	23
45	Propyne Hydrogenation over a Pd/Cu(111) Single-Atom Alloy Studied using Ambient Pressure Infrared Spectroscopy. <i>ACS Catalysis</i> , 2020, 10, 9716-9724.	5.5	23
46	The Formation of Methoxy from Methanol on an Oxygen Covered Cu(100) Surface at Temperatures of 90~200 K. <i>Journal of Physical Chemistry B</i> , 2001, 105, 3823-3827.	1.2	22
47	Adsorption of CO to Characterize the Structure of a Pd/Ag(111) Single-Atom Alloy Surface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14722-14729.	1.5	22
48	STM studies of photochemistry and plasmon chemistry on metal surfaces. <i>Progress in Surface Science</i> , 2018, 93, 163-176.	3.8	21
49	Methylaminomethylidyne: A Stable Intermediate Formed on the Pt(111) Surface from the N-Protonation of Methyl Isocyanide. <i>Journal of the American Chemical Society</i> , 2001, 123, 8432-8433.	6.6	20
50	Surface Chemistry of CN Bond Formation from Carbon and Nitrogen Atoms on Pt(111). <i>Journal of Physical Chemistry B</i> , 2005, 109, 17560-17566.	1.2	20
51	Coexistence and Interconversion of Di- σ and π -Bonded Ethylene on the Pt(111) and Pd(110) Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2263-2266.	2.1	20
52	Heteroepitaxy of Hafnium Diboride on a Hafnium(0001) Single Crystal Surface. <i>Chemistry of Materials</i> , 1997, 9, 403-405.	3.2	19
53	Spectroscopic Characterization of Vinyl Formed from Acetylene on Pt(111). <i>Journal of Physical Chemistry C</i> , 2007, 111, 1459-1466.	1.5	19
54	Adsorption and decomposition of trimethylamine on Pt(): formation of dimethylaminocarbyne (CN(CH ₃) ₂). <i>Surface Science</i> , 2003, 540, 23-38.	0.8	18

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55	Comparison of the surface chemical reactivity of hafnium diboride and hafnium. <i>Inorganica Chimica Acta</i> , 1999, 289, 191-197.	1.2	17
56	Kinetics of NH Formation and Dissociation on Pt(111). <i>Journal of Physical Chemistry C</i> , 2007, 111, 7127-7136.	1.5	17
57	Observation of Tunneling in the Hydrogenation of Atomic Nitrogen on the Ru(001) Surface to Form NH. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3779-3786.	2.1	17
58	Atomic structure of the LaB6(100) surface as observed with scanning tunneling microscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992, 10, 2581-2584.	0.9	16
59	Formation of Pt and Rh Nanoclusters on a Graphene Moiré Pattern on Cu(111). <i>Journal of Physical Chemistry C</i> , 2015, 119, 24796-24803.	1.5	16
60	Single Molecule Observations of the Adsorption Sites of Methyl Isocyanide on Pt(111) by Low-Temperature Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20344-20349.	1.2	15
61	Formation and hydrogenation of p(2Å ⁻²)-N on Pt(111). <i>Surface Science</i> , 2006, 600, 4563-4571.	0.8	15
62	Carbon-Nitrogen Bond Formation from the Reaction of Ammonia with Dicarbon on the Pt(111) Surface. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17088-17093.	1.5	15
63	Surface Chemistry of NCO Formed from HNCO on Pt(111). <i>Journal of Physical Chemistry C</i> , 2008, 112, 20443-20450.	1.5	15
64	Oxide thermal desorption from the lanthanum hexaboride (100) surface following reaction with oxygen. <i>Chemistry of Materials</i> , 1993, 5, 1762-1771.	3.2	14
65	Sensitivity improvement in surface infrared spectroscopy: Design, characteristics, and application of a high-temperature graphite source. <i>Review of Scientific Instruments</i> , 2004, 75, 2545-2550.	0.6	14
66	Probing the properties of the (111) and (100) surfaces of LaB6 through infrared spectroscopy of adsorbed CO. <i>Surface Science</i> , 2009, 603, 3011-3020.	0.8	14
67	Controlled Synthesis of Rh Nanoparticles on TiO ₂ (110) via Rh(CO) ₂ (acac). <i>Journal of Physical Chemistry C</i> , 2012, 116, 11987-11993.	1.5	13
68	Infrared spectrum from 400 to 1000 cm ⁻¹ of PF3 chemisorbed on the Pt(111) surface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989, 7, 2235-2237.	0.9	12
69	Reflection adsorption infrared spectroscopy of the oxidation of thin films of boron and hafnium diboride grown on Hf(0001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997, 15, 3065-3068.	0.9	12
70	Structure and chemistry of the YB66(100) surface. <i>Journal of Solid State Chemistry</i> , 1997, 133, 31-35.	1.4	12
71	Comparison of experimental and calculated infrared spectra of aminocarbynes on the Pt(111) surface. <i>Journal of Chemical Physics</i> , 2003, 119, 10930-10940.	1.2	12
72	Identification at the Single Molecule Level of C2Hx Moieties Derived from Acetylene on the Pt(111) Surface. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18372-18381.	1.5	12

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73	Selective Hydrogenation of Acrolein on a Pd/Ag(111) Single-Atom Alloy Surface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24271-24278.	1.5	12
74	The reaction of B ₂ O ₃ with the $\sqrt{2}$ -rhombohedral boron (111) surface. <i>Surface Science</i> , 1992, 262, 88-96.	0.8	11
75	Influence of arsenic on the atomic structure of the Si(112) surface. <i>Journal of Electronic Materials</i> , 2005, 34, 839-845.	1.0	11
76	Adsorption and Dehydrogenation of <i>ortho</i> -Carborane on the Pt(111) Surface. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8682-8689.	1.5	11
77	Synthesis of crystalline boron nanoribbons and calcium hexaboride nanowires by low pressure chemical vapor deposition. <i>Journal of Physics: Conference Series</i> , 2009, 176, 012011.	0.3	11
78	Adsorption and Hydrogenation of Acrolein on Ru(001). <i>Journal of Physical Chemistry C</i> , 2017, 121, 4384-4392.	1.5	11
79	Adsorption properties of acrolein, propanal, 2-propenol, and 1-propanol on Ag(111). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25011-25020.	1.3	11
80	Adsorbate-adsorbate interactions for PF ₃ chemisorbed on Pt(111). <i>Journal of Chemical Physics</i> , 1991, 95, 6962-6971.	1.2	10
81	Vibrational spectroscopy of oxygen on the (100) and (111) surfaces of lanthanum hexaboride. <i>Surface Science</i> , 2010, 604, 1202-1207.	0.8	10
82	Adsorption and dissociation of water on LaB ₆ (100) investigated by surface vibrational spectroscopy. <i>Surface Science</i> , 2012, 606, 247-252.	0.8	10
83	Spectroscopic evidence for a CO-O ₂ complex as a precursor to the low temperature oxidation of CO on the Pt(111) surface. <i>Chemical Physics Letters</i> , 2014, 593, 204-208.	1.2	10
84	Surface chemistry of propanal, 2-propenol, and 1-propanol on Ru(001). <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10870-10877.	1.3	10
85	Comparative IR Study of Ethylene Adsorption on a PtRh Alloy and Monometallic Pt and Rh Catalysts Supported on Al ₂ O ₃ . Identification of Alloy-Specific Binding Sites. <i>The Journal of Physical Chemistry</i> , 1995, 99, 6024-6028.	2.9	9
86	Formation of an ordered Si dimer structure on HfB ₂ (0001). <i>Physical Review B</i> , 2002, 66, .	1.1	9
87	Spectroscopic characterization of C ₂ H _x intermediates in the dissociation of vinyl iodide on Pt(111). <i>Surface Science</i> , 2015, 637-638, 29-34.	0.8	9
88	Confinement of the Pt(111) Surface State in Graphene Nanoislands. <i>Journal of Physical Chemistry C</i> , 2016, 120, 345-349.	1.5	9
89	A Fourier transform infrared reflection absorption spectroscopy study of chemisorbed PF ₃ on Ni(111): Coverage and temperature dependence. <i>Journal of Chemical Physics</i> , 1991, 94, 6256-6263.	1.2	8
90	Identification of Pressure-Induced Phase Transformations Using Nanoindentation. <i>Materials Research Society Symposia Proceedings</i> , 2000, 649, 891.	0.1	8

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91	Reaction of O ₂ with the boron-terminated TaB ₂ (0001) surface. <i>Surface Science</i> , 2003, 542, 221-229.	0.8	8
92	Adsorption and thermal decomposition of N-methylaniline on Pt(111). <i>Surface Science</i> , 2009, 603, 3215-3221.	0.8	8
93	Dissociative adsorption of hydrogen on the ZrB ₂ (0001) surface. <i>Surface Science</i> , 2012, 606, 1808-1814.	0.8	8
94	The influence of palladium on the hydrogenation of acetylene on Ag(111). <i>Journal of Chemical Physics</i> , 2021, 154, 184701.	1.2	8
95	Adsorption and Dehydrogenation of Decaborane on the Pt(111) Surface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13847-13854.	1.5	7
96	Orbital-selective single molecule reactions on a metal surface studied using low-temperature scanning tunneling microscopy. <i>Chemical Communications</i> , 2013, 49, 4679.	2.2	7
97	Nucleation behavior of supported Rh nanoparticles fabricated from Rh(CO) ₂ (acac) on Al ₂ O ₃ /Ni ₃ Al(111). <i>Chemical Physics Letters</i> , 2013, 555, 7-11.	1.2	7
98	The influence of coadsorbates on the overlayer structure of PF ₃ on Pt(111). <i>Surface Science</i> , 1993, 282, 76-90.	0.8	6
99	Structure of the (100) surface of the icosahedral boride YB ₆ . <i>Physical Review B</i> , 1998, 58, 9980-9989.	1.1	6
100	Dissociative adsorption of ammonia on the ZrB ₂ (0001) surface. <i>Surface Science</i> , 2013, 615, 110-118.	0.8	6
101	Molecular Oxygen Network as a Template for Adsorption of Ammonia on Pt(111). <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2900-2905.	2.1	6
102	Atomic-Scale Dynamics of Surface-Catalyzed Hydrogenation/Dehydrogenation: NH on Pt(111). <i>ACS Nano</i> , 2015, 9, 8303-8311.	7.3	6
103	Deposition and characterization of stoichiometric films of V ₂ O ₅ on Pd(111). <i>Surface Science</i> , 2017, 664, 1-7.	0.8	6
104	Selective Hydrogenation of Acrolein to Propanal on a Pseudomorphic Pt/Ru(001) Bimetallic Surface. <i>Topics in Catalysis</i> , 2018, 61, 318-327.	1.3	6
105	Characterization with XPS of a Thin Film of B ₂ O ₂ Deposited on a Ag Substrate. <i>Surface Science Spectra</i> , 1992, 1, 183-187.	0.3	5
106	Formation of Ruthenium-Tin Nanoparticles on Al ₂ O ₃ /Ni ₃ Al(111) from an Organometallic Precursor. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17062-17068.	1.5	5
107	Site Switching from Di- π Ethylene to σ -Bonded Ethylene in the Presence of Coadsorbed Nitrogen on Pt(111). <i>Journal of Physical Chemistry C</i> , 2010, 114, 12230-12233.	1.5	5
108	Aminovinylidene: A Stable Surface Intermediate in the Dehydrogenation of Ethylamine on Pt(100). <i>ChemCatChem</i> , 2012, 4, 1075-1078.	1.8	5

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109	Dissociation of trimethylgallium on the ZrB ₂ (0001) surface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013, 31, 061405.	0.9	5
110	Room Temperature Migration of Ag Atoms to Cover Pd Islands on Ag(111). <i>Journal of Physical Chemistry C</i> , 2021, 125, 27828-27836.	1.5	5
111	Time dependence of the infrared spectrum of N ₂ adsorbed at low coverage on the Ni(110) surface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987, 5, 427-430.	0.9	4
112	Infrared study of the coadsorption of PF ₃ and CO on the Pt(111) surface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992, 10, 2576-2580.	0.9	4
113	Infrared Intensity Enhancement of the CN Stretch of HCN by Coadsorbed CO on the Cu(100) Surface. <i>Physical Review Letters</i> , 2000, 84, 4902-4905.	2.9	4
114	Formation of Methyl Isocyanide from Dimethylamine on Pt(111). <i>Journal of Physical Chemistry C</i> , 2008, 112, 3794-3799.	1.5	4
115	Kinetics of HCN Decomposition on the Pt(111) Surface by Time-Dependent Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4091-4096.	1.5	4
116	Surface morphology of atomic nitrogen on Pt(111). <i>Journal of Chemical Physics</i> , 2014, 140, 114707.	1.2	4
117	Single-Molecule Dynamics in the Presence of Strong Intermolecular Interactions. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4369-4373.	2.1	4
118	In-situ spectroscopic monitoring of the ambient pressure hydrogenation of C ₂ to ethane on Pt(111). <i>Surface Science</i> , 2016, 652, 142-147.	0.8	4
119	Growth of Pd Nanoclusters on Single-Layer Graphene on Cu(111). <i>Journal of Physical Chemistry B</i> , 2018, 122, 572-577.	1.2	4
120	Reaction pathways for HCN on transition metal surfaces. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5274-5284.	1.3	4
121	The influence of hydrogen on the aggregation of aminomethyldiyne on Pt(111). <i>Surface Science</i> , 1997, 381, 65-76.	0.8	3
122	Structure of Heteroepitaxial Thin Films of Hafnium Diboride Grown on a Hf(0001) Surface As Determined by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11833-11836.	1.2	3
123	Spectroscopic Identification of Surface Intermediates in the Dehydrogenation of Ethylamine on Pt(111). <i>Journal of Physical Chemistry C</i> , 2013, 117, 4666-4679.	1.5	3
124	Structure and Reactivity of Molecularly Adsorbed Ammonia on the ZrB ₂ (0001) Surface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29260-29269.	1.5	3
125	Surface Hydrogenation Reactions at the Single-Molecule Level. <i>Chemical Record</i> , 2014, 14, 819-826.	2.9	3
126	Kinetics of Aminocarbene Formation on Pt(111). <i>Journal of Physical Chemistry C</i> , 2015, 119, 14506-14512.	1.5	3

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127	Hydrogenation and dehydrogenation reactions of C ₂ H _x moieties on the Ru(001) surface. Surface Science, 2016, 650, 144-148.	0.8	3
128	Dissociation Mechanism of a Single O ₂ Molecule Chemisorbed on Ag(110). Journal of Physical Chemistry Letters, 2021, 12, 9868-9873.	2.1	3
129	Infrared reflection-absorption study of the adsorbate-substrate stretch of CO on Pt(111). Surface Science Letters, 1989, 214, L237-L245.	0.1	2
130	Formation of Benzonitrile from the Reaction of Styrene with Nitrogen on the Pt(111) Surface. Journal of Physical Chemistry C, 2012, 116, 19300-19306.	1.5	2
131	Spectroscopic Identification of Surface Intermediates in the Decomposition of Methylamine on Ru(001). Journal of Physical Chemistry C, 2017, 121, 9424-9432.	1.5	2
132	Single-Molecule Study of a Plasmon-Induced Reaction for a Strongly Chemisorbed Molecule. Angewandte Chemie, 2020, 132, 8034-8040.	1.6	2
133	Heat of Adsorption of Propyne on Cu(111) from Isotherms Measured by Reflection Absorption Infrared Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 18786-18791.	1.5	2
134	Conformer-Selective Adsorption of 1-Propanol on the Ag(111) Surface. Journal of Physical Chemistry C, 2022, 126, 7281-7287.	1.5	2
135	Fourier transform infrared spectroscopy as a surface science technique. , 1998, , .		1
136	Scanning tunneling microscopy and inelastic electron tunneling spectroscopy studies of methyl isocyanide adsorbed on Pt(111). Journal of Physics: Conference Series, 2010, 235, 012003.	0.3	1
137	Thermal and Electron-Induced Decomposition of 2-Butanol on Pt(111). Journal of Physical Chemistry A, 2011, 115, 5785-5793.	1.1	1
138	Alternate Pathway to Ammonia Formation in NO _x Reduction: Direct Reaction of Acetylene and Nitrogen Atoms on Pt (111). ACS Catalysis, 2011, 1, 1679-1682.	5.5	1
139	Decomposition of ammonia on ZrB ₂ (0001). Chemical Physics Letters, 2020, 739, 136984.	1.2	1
140	Interaction of CO with Pt nanoclusters on a graphene-covered Ru(0001) surface. Journal of Chemical Physics, 2021, 154, 114701.	1.2	1
141	Dissociation of Single O ₂ Molecules on Ag(110) by Electrons, Holes, and Localized Surface Plasmons. Chemical Record, 2022, , e202200011.	2.9	1
142	The reactions of B ₂ O ₃ and O ₂ with the $\sqrt{2}$ -rhombohedral boron (111) surface. AIP Conference Proceedings, 1991, , .	0.3	0
143	The influence of coadsorbates on the overlayer structure of PF ₃ on Pt(111). Surface Science Letters, 1993, 282, A199.	0.1	0
144	Innentitelbild: Single-Molecule Study of a Plasmon-Induced Reaction for a Strongly Chemisorbed Molecule (Angew. Chem. 20/2020). Angewandte Chemie, 2020, 132, 7698-7698.	1.6	0

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145	COMPARISON OF THE DEHYDROGENATION CHEMISTRY OF CARBORANE AND DECABORANE ON THE Pt(111) SURFACE. , 2009, , .		0
146	LOW TEMPERATURE TRANSMISSION IR SPECTRA OF SODIUM AND LITHIUM BOROHYDRIDE. , 2009, , .		0
147	Vibrational Spectroscopy of Adsorbates on the (111) and (100) Surfaces of Lanthanum Hexaboride. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 181-193.	0.2	0