

Ueli Heiz

List of Publications by Year in descending order

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200
papers

11,453
citations

46918

47
h-index

30010

103
g-index

213
all docs

213
docs citations

213
times ranked

8250
citing authors

#	ARTICLE	IF	CITATIONS
1	When Gold Is Not Noble: Nanoscale Gold Catalysts. <i>Journal of Physical Chemistry A</i> , 1999, 103, 9573-9578.	1.1	1,375
2	Charging Effects on Bonding and Catalyzed Oxidation of CO on Au ₈ Clusters on MgO. <i>Science</i> , 2005, 307, 403-407.	6.0	1,358
3	Structural, Electronic, and Impurity-Doping Effects in Nanoscale Chemistry: Supported Gold Nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1297-1300.	7.2	547
4	Catalytic Oxidation of Carbon Monoxide on Monodispersed Platinum Clusters: Each Atom Counts. <i>Journal of the American Chemical Society</i> , 1999, 121, 3214-3217.	6.6	467
5	Acetylene Cyclotrimerization on Supported Size-Selected Pd _n Clusters (1 ≤ n ≤ 30): One Atom Is Enough!. <i>Journal of the American Chemical Society</i> , 2000, 122, 3453-3457.	6.6	410
6	Catalytic CO Oxidation by Free Au ₂ : Experiment and Theory. <i>Journal of the American Chemical Society</i> , 2003, 125, 10437-10445.	6.6	386
7	The effect of particle proximity on the oxygen reduction rate of size-selected platinum clusters. <i>Nature Materials</i> , 2013, 12, 919-924.	13.3	327
8	Chemical reactivity of size-selected supported clusters: An experimental setup. <i>Review of Scientific Instruments</i> , 1997, 68, 1986-1994.	0.6	226
9	Control and Manipulation of Gold Nanocatalysis: Effects of Metal Oxide Support Thickness and Composition. <i>Journal of the American Chemical Society</i> , 2009, 131, 538-548.	6.6	203
10	Nanoassembled model catalysts. <i>Journal Physics D: Applied Physics</i> , 2000, 33, R85-R102.	1.3	196
11	Factors in gold nanocatalysis: oxidation of CO in the non-scalable size regime. <i>Topics in Catalysis</i> , 2007, 44, 145-158.	1.3	190
12	Cluster Size Effects in the Photocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 13262-13265.	6.6	187
13	CO Oxidation on a Single Pd Atom Supported on Magnesia. <i>Physical Review Letters</i> , 2001, 86, 5950-5953.	2.9	173
14	Fundamental aspects of catalysis on supported metal clusters. <i>Journal of Materials Chemistry</i> , 2004, 14, 564.	6.7	166
15	Low-Temperature Cluster Catalysis. <i>Journal of the American Chemical Society</i> , 2004, 126, 2732-2737.	6.6	162
16	Coadsorption of CO and O ₂ on small free gold cluster anions at cryogenic temperatures: Model complexes for catalytic CO oxidation. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 1707-1709.	1.3	161
17	Size-Dependent Molecular Dissociation on Mass-Selected, Supported Metal Clusters. <i>Journal of the American Chemical Society</i> , 1998, 120, 9668-9671.	6.6	138
18	High Sintering Resistance of Size-Selected Platinum Cluster Catalysts by Suppressed Ostwald Ripening. <i>Nano Letters</i> , 2014, 14, 5803-5809.	4.5	131

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19	Charging of Au Atoms on TiO ₂ Thin Films from CO Vibrational Spectroscopy and DFT Calculations. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18418-18426.	1.2	126
20	CO Combustion on Supported Gold Clusters. <i>ChemPhysChem</i> , 2006, 7, 1871-1879.	1.0	121
21	Structure sensitivity in the non-scalable regime explored via catalysed ethylene hydrogenation on supported platinum nanoclusters. <i>Nature Communications</i> , 2016, 7, 10389.	5.8	115
22	Tuning the oxidation of carbon monoxide using nanoassembled model catalysts. <i>Chemical Physics</i> , 2000, 262, 189-200.	0.9	109
23	Identification of Defect Sites on MgO(100) Thin Films by Decoration with Pd Atoms and Studying CO Adsorption Properties. <i>Journal of the American Chemical Society</i> , 2001, 123, 6172-6178.	6.6	108
24	Chiral Gold and Silver Nanoclusters: Preparation, Size Selection, and Chiroptical Properties. <i>Chemistry of Materials</i> , 2013, 25, 862-870.	3.2	106
25	Cluster Size-Dependent Mechanisms of the CO + NO Reaction on Small Pd _n (n ≈ 30) Clusters on Oxide Surfaces. <i>Journal of the American Chemical Society</i> , 2003, 125, 7964-7970.	6.6	103
26	Tuning the Selectivity of Acetylene Polymerization Atom by Atom. <i>Journal of Catalysis</i> , 2001, 198, 122-127.	3.1	85
27	Size-Selected Subnanometer Cluster Catalysts on Semiconductor Nanocrystal Films for Atomic Scale Insight into Photocatalysis. <i>Nano Letters</i> , 2012, 12, 5903-5906.	4.5	85
28	Size-selected clusters as heterogeneous model catalysts under applied reaction conditions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10288.	1.3	81
29	Optical Absorption Spectrum of Gold Atoms Deposited on SiO ₂ from Cavity Ringdown Spectroscopy. <i>Physical Review Letters</i> , 2005, 94, 213402.	2.9	80
30	Temperature Dependent CO Oxidation Mechanisms on Size-Selected Clusters. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1651-1654.	1.5	76
31	Size-Selected Monodisperse Nanoclusters on Supported Graphene: Bonding, Isomerism, and Mobility. <i>Nano Letters</i> , 2012, 12, 5907-5912.	4.5	76
32	Topography and work function measurements of thin MgO(001) films on Ag(001) by nc-AFM and KPFM. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3203.	1.3	75
33	Preparation and Spectroscopic Properties of Monolayer-Protected Silver Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8034-8043.	1.5	71
34	The reactivity of gold and platinum metals in their cluster phase. <i>European Physical Journal D</i> , 1999, 9, 35-39.	0.6	70
35	Size-Selected Clusters on Solid Surfaces. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2001, 26, 251-290.	6.8	69
36	NaxAu and CsxAu bimetal clusters: Finite size analogs of sodium "gold" and cesium "gold" compounds. <i>Journal of Chemical Physics</i> , 1996, 105, 5574-5585.	1.2	67

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37	Ethylene hydrogenation on supported Ni, Pd and Pt nanoparticles: Catalyst activity, deactivation and the d-band model. <i>Journal of Catalysis</i> , 2016, 333, 51-58.	3.1	62
38	Chemisorption and Reactivity of Methanol on MgO Thin Films. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11961-11969.	1.2	59
39	Electrochemically induced nanocluster migration. <i>Electrochimica Acta</i> , 2010, 56, 810-816.	2.6	59
40	Einfluss der geometrischen und elektronischen Struktur sowie der elementaren Zusammensetzung von Clustern auf chemische Prozesse in der Nanometerskala. <i>Angewandte Chemie</i> , 2003, 115, 1335-1338.	1.6	52
41	Cluster Chemistry: Size-Dependent Reactivity Induced by Reverse Spill-Over. <i>Journal of the American Chemical Society</i> , 2007, 129, 9635-9639.	6.6	52
42	Fundamental Insight into the Substrate-Dependent Ripening of Monodisperse Clusters. <i>ChemCatChem</i> , 2013, 5, 3330-3341.	1.8	52
43	Synthesis of monodispersed model catalysts using softlanding cluster deposition. <i>Pure and Applied Chemistry</i> , 2002, 74, 1527-1535.	0.9	51
44	NO Monomers on MgO Powders and Thin Films. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1637-1645.	1.2	50
45	Catalytic Non-Oxidative Coupling of Methane on Ta ₈ O ₂ ⁺ . <i>Journal of the American Chemical Society</i> , 2020, 142, 5862-5869.	6.6	49
46	Imaging size-selected silicon clusters with a low-temperature scanning tunneling microscope. <i>Surface Science</i> , 2000, 465, 331-338.	0.8	48
47	Role of Surface Defects in the Activation of Supported Metals: A Quantum-Chemical Study of Acetylene Cyclotrimerization on Pd ₁ /MgO. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10612-10617.	1.2	48
48	Mono- and bimetallic Ir(<i>scp</i>) based catalysts for the homogeneous photocatalytic reduction of CO ₂ under visible light irradiation. New insights into catalyst deactivation. <i>Dalton Transactions</i> , 2014, 43, 13259.	1.6	48
49	Reaction mechanism for the oxidation of free silver dimers. <i>Chemical Physics Letters</i> , 2001, 340, 282-288.	1.2	47
50	Gold Atoms and Dimers on Amorphous SiO ₂ : Calculation of Optical Properties and Cavity Ringdown Spectroscopy Measurements. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19876-19884.	1.2	47
51	Plasmons in supported size-selected silver nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17541-17544.	1.3	47
52	Size-effects in the acetylene cyclotrimerization on supported size-selected Pd _n clusters (1 ≤ n ≤ 30). <i>Surface Science</i> , 2000, 454-456, 984-989.	0.8	46
53	AFM tip characterization by Kelvin probe force microscopy. <i>New Journal of Physics</i> , 2010, 12, 093024.	1.2	45
54	Infra-red spectroscopy of size selected Au ₂₅ , Au ₃₈ and Au ₁₄₄ ligand protected gold clusters. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12539.	1.3	44

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55	Oxidation State and Symmetry of Magnesia-Supported Pd ₁₃ O _x Nanocatalysts Influence Activation Barriers of CO Oxidation. <i>Journal of the American Chemical Society</i> , 2012, 134, 7690-7699.	6.6	43
56	Ethanol photocatalysis on rutile TiO ₂ (110): the role of defects and water. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22809-22814.	1.3	43
57	Selectivity of Surface Defects for the Activation of Supported Metal Atoms: Acetylene Cyclotrimerization on Pd ₁ /MgO. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3173-3181.	1.2	42
58	Acetylene trimerization on Ag, Pd and Rh atoms deposited on MgO thin films. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 955-962.	1.3	42
59	Exploring the Potential of Different-Sized Supported Subnanometer Pt Clusters as Catalysts for Wet Chemical Applications. <i>ACS Catalysis</i> , 2017, 7, 4152-4162.	5.5	41
60	Size dependent reaction kinetics of small gold clusters with carbon monoxide: Influence of internal degrees of freedom and carbonyl complex stability. <i>European Physical Journal D</i> , 2003, 24, 327-330.	0.6	40
61	Oxidation of Magnesia-Supported Pd ₃₀ Nanoclusters and Catalyzed CO Combustion: Size-Selected Experiments and First-Principles Theory. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9594-9607.	1.5	40
62	Photoresponse of supramolecular self-assembled networks on graphene-diamond interfaces. <i>Nature Communications</i> , 2016, 7, 10700.	5.8	40
63	Acetylene polymerization on supported transition metal clusters. <i>Journal of Molecular Catalysis A</i> , 2003, 199, 103-113.	4.8	39
64	Rational design, characterization and catalytic application of metal clusters functionalized with hydrophilic, chiral ligands: a proof of principle study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19253.	1.3	38
65	Surface Species in Photocatalytic Methanol Reforming on Pt/TiO ₂ (110): Learning from Surface Science Experiments for Catalytically Relevant Conditions. <i>ACS Catalysis</i> , 2020, 10, 4080-4091.	5.5	38
66	Size-selected, supported clusters: the interaction of carbon monoxide with nickel clusters. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 67, 621-626.	1.1	37
67	Pd ₁ /MgO(): a model system in nanocatalysis. <i>Surface Science</i> , 2002, 514, 249-255.	0.8	37
68	Interaction of Ag, Rh, and Pd Atoms with MgO Thin Films Studied by the CO Probe Molecule. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9377-9387.	1.2	37
69	Assessing the concept of structure sensitivity or insensitivity for sub-nanometer catalyst materials. <i>Surface Science</i> , 2016, 652, 7-19.	0.8	36
70	Conversion of NO to N ₂ O on MgO Thin Films. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7666-7673.	1.2	34
71	Turn-over frequencies of catalytic reactions on nanocatalysts measured by pulsed molecular beams and quantitative mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2003, 229, 99-106.	0.7	33
72	Chemical and Catalytic Properties of Size-Selected Free and Supported Clusters. <i>Nanoscience and Technology</i> , 2007, , 1-191.	1.5	32

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73	Catalytic Dehydration of 2-Propanol by Size-Selected (WO ₃) _n and (MoO ₃) _n Metal Oxide Clusters. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29278-29286.	1.5	32
74	Controlling Ethylene Hydrogenation Reactivity on Pt ₁₃ Clusters by Varying the Stoichiometry of the Amorphous Silica Support. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8953-8957.	7.2	32
75	CO Chemisorption on Monodispersed Platinum Clusters on SiO ₂ : Detection of CO Chemisorption on Single Platinum Atoms. <i>The Journal of Physical Chemistry</i> , 1995, 99, 8730-8735.	2.9	31
76	Unraveling Side Reactions in the Photocatalytic Reduction of CO ₂ : Evidence for Light-Induced Deactivation Processes in Homogeneous Photocatalysis. <i>ChemCatChem</i> , 2015, 7, 690-697.	1.8	30
77	Chemistry on single atoms: key factors for the acetylene trimerization on MgO-supported Rh, Pd, and Ag atoms. <i>Chemical Physics Letters</i> , 2004, 399, 266-270.	1.2	29
78	Cavity ring-down spectrometer for measuring the optical response of supported size-selected clusters and surface defects in ultrahigh vacuum. <i>Journal of Applied Physics</i> , 2008, 104, 124313.	1.1	29
79	Ethene to Graphene: Surface Catalyzed Chemical Pathways, Intermediates, and Assembly. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9413-9423.	1.5	29
80	Thermal Control of Selectivity in Photocatalytic, Water-Free Alcohol Photoreforming. <i>ACS Catalysis</i> , 2018, 8, 11076-11084.	5.5	29
81	Conical octopole ion guide: Design, focusing, and its application to the deposition of low energetic clusters. <i>Review of Scientific Instruments</i> , 2006, 77, 013302.	0.6	28
82	Dual pulsed-beam controlled mole fraction studies of the catalytic oxidation of CO on supported Pd nanocatalysts. <i>Journal of Catalysis</i> , 2008, 255, 234-240.	3.1	27
83	Nano-assembled Pd catalysts on MgO thin films. <i>Thin Solid Films</i> , 2001, 400, 37-42.	0.8	25
84	Cavity ring-down spectroscopy of metallic gold nanoparticles. <i>European Physical Journal D</i> , 2007, 45, 501-506.	0.6	24
85	Can Support Acidity Predict Sub-Nanometer Catalyst Activity Trends?. <i>ACS Catalysis</i> , 2017, 7, 6738-6744.	5.5	24
86	Vibrational coupling of CO adsorbed on monodispersed Ni ₁₁ clusters supported on magnesia. <i>Chemical Physics Letters</i> , 1997, 277, 527-531.	1.2	23
87	Why co-catalyst-loaded rutile facilitates photocatalytic hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1491-1496.	1.3	23
88	Communication: Water activation and splitting by single metal-atom anions. <i>Journal of Chemical Physics</i> , 2018, 149, 221101.	1.2	22
89	Orientational changes of supported chiral 2,2'-dihydroxy-1,1'-binaphthyl molecules. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7299-7306.	1.3	21
90	Metal-Metal Coordination Chemistry: Free Clusters of Group 11 Elements with Sodium. <i>The Journal of Physical Chemistry</i> , 1996, 100, 15033-15040.	2.9	19

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91	Introducing catalysis in photocatalysis: What can be understood from surface science studies of alcohol photoreforming on TiO ₂ . Journal of Physics Condensed Matter, 2019, 31, 473002.	0.7	19
92	Small Supported Plasmonic Silver Clusters. Small, 2014, 10, 2340-2344.	5.2	18
93	Ostwald ripening of supported Pt nanoclusters with initial size-selected distributions. Chemical Physics Letters, 2015, 631-632, 21-25.	1.2	18
94	Electrochemical stability of subnanometer Pt clusters. Electrochimica Acta, 2018, 277, 211-217.	2.6	18
95	Device-Compatible Chiroptical Surfaces through Self-Assembly of Enantiopure Allenes. Langmuir, 2018, 34, 4548-4553.	1.6	18
96	Chirality transfer from organic ligands to silver nanostructures <i>via</i> chiral polarisation of the electric field. Physical Chemistry Chemical Physics, 2018, 20, 20347-20351.	1.3	18
97	Electron stimulated desorption of NO from step sites on Pt(112): The role of chemisorption site geometry on the cross section. Journal of Chemical Physics, 1994, 100, 3925-3929.	1.2	17
98	Laser Mass Spectrometry with Circularly Polarized Light: Circular Dichroism of Cold Molecules in a Supersonic Gas Beam. ChemPhysChem, 2014, 15, 2762-2767.	1.0	17
99	Very small "window of opportunity" for generating CO oxidation-active Au _n on TiO ₂ . Physical Chemistry Chemical Physics, 2014, 16, 6735-6742.	1.3	17
100	Functionalization of small platinum nanoparticles with amines and phosphines: Ligand binding modes and particle stability. Journal of Colloid and Interface Science, 2016, 478, 72-80.	5.0	17
101	Circular Dichroism and Isotropy "Polarity Reversal of Ellipticity in Molecular Films of 1,1'-Bi-2-Naphthol. ChemPhysChem, 2019, 20, 62-69.	1.0	17
102	A new cluster source for the generation of binary metal clusters. Review of Scientific Instruments, 1997, 68, 3718-3722.	0.6	16
103	Cluster and Periodic DFT Calculations of MgO/Pd(CO) and MgO/Pd(CO) ₂ Surface Complexes. Journal of Physical Chemistry B, 2005, 109, 3416-3422.	1.2	16
104	Linear and Nonlinear Laser Spectroscopy of Surface Adsorbates with Sub-Monolayer Sensitivity. Journal of Physical Chemistry C, 2012, 116, 8642-8648.	1.5	16
105	Atomic Structure Control of Silica Thin Films on Pt(111). Journal of Physical Chemistry C, 2015, 119, 13665-13669.	1.5	16
106	Size-dependent gas phase reactivity of tantalum cluster cations with small alcohols. International Journal of Mass Spectrometry, 2015, 375, 9-13.	0.7	16
107	Effect of Thiol-Ligands on the Optical Response of Supported Silver Clusters. Journal of Physical Chemistry C, 2017, 121, 9331-9336.	1.5	16
108	Thermal Dehydrogenation of Methane Enhanced by 1/2-Oxo Ligands in Tantalum Cluster Cations [Ta _x O] ⁺ , x = 4, 5. Journal of Physical Chemistry C, 2018, 122, 25628-25637.	1.5	16

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109	NO electronic desorption processes from step sites on Pt(112): A comparison between photo- and electron-stimulated desorption. <i>Journal of Chemical Physics</i> , 1994, 101, 4373-4378.	1.2	15
110	Chapter 1 Size effects in the chemistry of small clusters. <i>Chemical Physics of Solid Surfaces</i> , 2007, , 1-51.	0.3	15
111	Microkinetic simulations of the oxidation of CO on Pd based nanocatalysis: a model including co-dependent support interactions. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5875.	1.3	15
112	Size-selected Metal Clusters: New Models for Catalysis with Atomic Precision. <i>Journal of Applied Sciences</i> , 2011, 11, 1164-1170.	0.1	15
113	Dual reverse spill-over: Microkinetic simulations of the CO oxidation on Pd nanocatalysts. <i>Chemical Physics Letters</i> , 2008, 461, 235-237.	1.2	14
114	Two reaction regimes in the oxidation of larger cationic tantalum clusters (Ta_n^+ , $n = 13-40$) under multi-collision conditions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8115-8119.	1.3	14
115	Plasmonic support-mediated activation of 1 nm platinum clusters for catalysis. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30570-30577.	1.3	14
116	Reactions in the Photocatalytic Conversion of Tertiary Alcohols on Rutile TiO ₂ (110). <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14255-14259.	7.2	14
117	Cluster Catalysis with Lattice Oxygen: Tracing Oxygen Transport from a Magnetite (001) Support onto Small Pt Clusters. <i>ACS Catalysis</i> , 2021, 11, 9519-9529.	5.5	14
118	Physical Chemistry of Supported Clusters. <i>Springer Series in Cluster Physics</i> , 2000, , 237-273.	0.3	13
119	Micromechanical sensor for studying heats of surface reactions, adsorption, and cluster deposition processes. <i>Review of Scientific Instruments</i> , 2007, 78, 054101.	0.6	12
120	Using controlled ion extraction to combine a ring electrode trap with a reflectron time-of-flight mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2015, 387, 8-15.	0.7	12
121	Mass-Selected Circular Dichroism of Supersonic-Beam-Cooled [D_4^+] R^+ Methylcyclopentanone. <i>ChemPhysChem</i> , 2016, 17, 4052-4058.	1.0	12
122	Doping-Dependent Adsorption and Photon-Stimulated Desorption of CO on GaN(0001). <i>Journal of Physical Chemistry C</i> , 2017, 121, 8473-8479.	1.5	12
123	Supported sub-nanometer Ta oxide clusters as model catalysts for the selective epoxidation of cyclooctene. <i>New Journal of Chemistry</i> , 2018, 42, 3035-3041.	1.4	12
124	Regulating Photochemical Selectivity with Temperature: Isobutanol on TiO ₂ (110). <i>Journal of the American Chemical Society</i> , 2020, 142, 13072-13080.	6.6	12
125	CO ₂ -Activation by size-selected tantalum cluster cations (Ta_n^+ , $n = 16$): thermalization governing reaction selectivity. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 2623-2629.	1.3	12
126	Improving metastable impact electron spectroscopy and ultraviolet photoelectron spectroscopy signals by means of a modified time-of-flight separation. <i>Review of Scientific Instruments</i> , 2012, 83, 013114.	0.6	11

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127	Consecutive reactions of small, free tantalum clusters with dioxygen controlled by relaxation dynamics. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5985-5993.	1.3	11
128	High-Resolution Absorption and Electronic Circular Dichroism Spectra of (+)-1-Phenylethanol. Confident Interpretation Based on the Synergy between Experiments and Computations. <i>ChemPhysChem</i> , 2018, 19, 715-723.	1.0	11
129	Influence of Local Defects on the Dynamics of O-H Bond Breaking and Formation on a Magnetite Surface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19742-19747.	1.5	11
130	Origin of Poisoning in Methanol Photoreforming on TiO ₂ (110): The Importance of Thermal Back-Reaction Steps in Photocatalysis. <i>ACS Catalysis</i> , 2020, 10, 7747-7752.	5.5	11
131	The polymerization of acetylene on supported metal clusters. <i>Low Temperature Physics</i> , 2006, 32, 1097-1103.	0.2	10
132	Submonolayer sensitive adsorption study of trichloroethene on single crystal surfaces by means of MIES, UPS and TPD. <i>Surface Science</i> , 2013, 609, 18-29.	0.8	10
133	In-line reference measurement for surface second harmonic generation spectroscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 541.	0.9	10
134	Suppression of Deactivation Processes in Photocatalytic Reduction of CO ₂ Using Pulsed Light. <i>ChemCatChem</i> , 2016, 8, 2688-2695.	1.8	10
135	From oxidative degradation to direct oxidation: size regimes in the consecutive reaction of cationic tantalum clusters with dioxygen. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10863-10869.	1.3	10
136	Chiroptical inversion for isolated vibronic transitions of supersonic beam-cooled molecules. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21297-21303.	1.3	10
137	Photocatalytic selectivity switch to C-C scission: $\hat{\pm}$ -methyl ejection of tert-butanol on TiO ₂ (110). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7105-7111.	1.3	10
138	Enantiospecific Desorption Triggered by Circularly Polarized Light. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15685-15689.	7.2	10
139	Ensemble Effects in the Temperature-Dependent Photoluminescence of Silicon Nanocrystals. <i>Chemistry - A European Journal</i> , 2019, 25, 3061-3067.	1.7	10
140	In situ Second-Harmonic Generation Circular Dichroism with Submonolayer Sensitivity. <i>ChemPhysChem</i> , 2019, 20, 134-141.	1.0	10
141	Carbide Dihydrides: Carbonaceous Species Identified in Ta ₄ ⁺ -Mediated Methane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23631-23635.	7.2	10
142	Metal-Metal Coordination Chemistry: Free Clusters of Group 12 Elements with Sodium. <i>Israel Journal of Chemistry</i> , 1990, 30, 147-155.	1.0	9
143	Monodispersed cluster-assembled materials. <i>Materials Today</i> , 2006, 9, 48-49.	8.3	9
144	Characterisation and cleaning of oxide support materials for cavity ring-down spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1147-1151.	0.7	9

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145	Same ligand â€“ Different binding: A way to control the binding of N-acetyl-cysteine (NAC) to Pt clusters. <i>Journal of Colloid and Interface Science</i> , 2014, 426, 264-269.	5.0	9
146	Electrodeposition of Pt - Rare Earth Alloys as ORR Catalysts for Fuel Cells. <i>ECS Transactions</i> , 2016, 75, 323-332.	0.3	9
147	H ₂ /D ₂ exchange reaction on mono-disperse Pt clusters: enhanced activity from minute O ₂ concentrations. <i>Catalysis Science and Technology</i> , 2016, 6, 6893-6900.	2.1	9
148	Anhydrous Ethanol Dehydrogenation on Metalâ€“Organic Chemical Vapor Deposition Grown GaN(0001). <i>Journal of Physical Chemistry C</i> , 2017, 121, 16393-16398.	1.5	9
149	High stability of thiol-protected colloidal platinum nanoparticles with reduced ligand coverages in the hydrogenation of 3-hexyne. <i>Catalysis Communications</i> , 2017, 100, 85-88.	1.6	9
150	Towards Sizeâ€“Controlled Deposition of Palladium Nanoparticles from Polyoxometalate Precursors: An Electrochemical Scanning Tunneling Microscopy Study. <i>ChemElectroChem</i> , 2021, 8, 1280-1288.	1.7	9
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