Uzi Landman

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3154857/publications.pdf

Version: 2024-02-01

354	31,872	3334 91	4774 169
papers	citations	h-index	g-index

364	364	364	16971
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanotribology: friction, wear and lubrication at the atomic scale. Nature, 1995, 374, 607-616.	27.8	1,514
2	When Gold Is Not Noble:Â Nanoscale Gold Catalysts. Journal of Physical Chemistry A, 1999, 103, 9573-9578.	2.5	1,375
3	Charging Effects on Bonding and Catalyzed Oxidation of CO on Au8 Clusters on MgO. Science, 2005, 307, 403-407.	12.6	1,358
4	Nanocrystal gold molecules. Advanced Materials, 1996, 8, 428-433.	21.0	1,179
5	Ultrastable silver nanoparticles. Nature, 2013, 501, 399-402.	27.8	1,023
6	Bonding in Cu, Ag, and Au Clusters: Relativistic Effects, Trends, and Surprises. Physical Review Letters, 2002, 89, 033401.	7.8	611
7	On the Electronic and Atomic Structures of Small AuN- (N = 4â^'14) Clusters:â€‰ A Photoelectron Spectroscopy and Density-Functional Study. Journal of Physical Chemistry A, 2003, 107, 6168-6175.	2.5	598
8	Born-Oppenheimer molecular-dynamics simulations of finite systems: Structure and dynamics of (H2O)2. Physical Review B, 1993, 48, 2081-2097.	3.2	551
9	Structural, Electronic, and Impurity-Doping Effects in Nanoscale Chemistry: Supported Gold Nanoclusters. Angewandte Chemie - International Edition, 2003, 42, 1297-1300.	13.8	547
10	Total Structure and Electronic Properties of the Gold Nanocrystal Au₃₆(SR)₂₄. Angewandte Chemie - International Edition, 2012, 51, 13114-13118.	13.8	519
11	Structural Evolution of Smaller Gold Nanocrystals: The Truncated Decahedral Motif. Physical Review Letters, 1997, 79, 1873-1876.	7.8	460
12	Frictional Forces and Amontons' Law:Â From the Molecular to the Macroscopic Scale. Journal of Physical Chemistry B, 2004, 108, 3410-3425.	2.6	455
13	Gold clusters(AuN,2<~N<~10)and their anions. Physical Review B, 2000, 62, R2287-R2290.	3.2	454
14	Structure, Dynamics, and Thermodynamics of Passivated Gold Nanocrystallites and Their Assemblies. The Journal of Physical Chemistry, 1996, 100, 13323-13329.	2.9	410
15	Catalytic CO Oxidation by Free Au2-:Â Experiment and Theory. Journal of the American Chemical Society, 2003, 125, 10437-10445.	13.7	386
16	Charge Migration in DNA: Ion-Gated Transport. Science, 2001, 294, 567-571.	12.6	373
17	The energetics and structure of nickel clusters: Size dependence. Journal of Chemical Physics, 1991, 94, 7376-7396.	3.0	359
18	Interaction of O2 with Gold Clusters:â€‰ Molecular and Dissociative Adsorption. Journal of Physical Chemistry A, 2003, 107, 4066-4071.	2.5	349

#	Article	IF	Citations
19	Formation, Stability, and Breakup of Nanojets. Science, 2000, 289, 1165-1169.	12.6	344
20	Layering Transitions and Dynamics of Confined Liquid Films. Physical Review Letters, 1997, 79, 705-708.	7.8	303
21	Oxidation of DNA: Damage to Nucleobases. Accounts of Chemical Research, 2010, 43, 280-287.	15.6	300
22	Photoelectron spectra of aluminum cluster anions: Temperature effects andab initiosimulations. Physical Review B, 1999, 60, R11297-R11300.	3.2	289
23	Bonding Trends and Dimensionality Crossover of Gold Nanoclusters on Metal-Supported MgO Thin Films. Physical Review Letters, 2006, 97, 036106.	7.8	268
24	Electron localization in water clusters. II. Surface and internal states. Journal of Chemical Physics, 1988, 88, 4429-4447.	3.0	251
25	Melting of gold clusters. Physical Review B, 1999, 60, 5065-5077.	3.2	242
26	Small is different: energetic, structural, thermal, and mechanical properties of passivated nanocluster assemblies. Faraday Discussions, 2004, 125, 1.	3.2	239
27	Structural evolution of Au nanoclusters: From planar to cage to tubular motifs. Physical Review B, 2006, 74, .	3.2	234
28	Structure and Thermodynamics of Self-Assembled Monolayers on Gold Nanocrystallites. Journal of Physical Chemistry B, 1998, 102, 6566-6572.	2.6	231
29	Gas-Phase Catalytic Oxidation of CO by Au2-. Journal of the American Chemical Society, 2001, 123, 9704-9705.	13.7	230
30	Slip Diffusion and LÃ©vy Flights of an Adsorbed Gold Nanocluster. Physical Review Letters, 1999, 82, 3835-3838.	7.8	229
31	Spontaneous Symmetry Breaking in Single and Molecular Quantum Dots. Physical Review Letters, 1999, 82, 5325-5328.	7.8	224
32	Reversible Manipulations of Room Temperature Mechanical and Quantum Transport Properties in Nanowire Junctions. Physical Review Letters, 1996, 77, 1362-1365.	7.8	219
33	Water-Enhanced Catalysis of CO Oxidation on Free and Supported Gold Nanoclusters. Physical Review Letters, 2005, 95, 106102.	7.8	211
34	Control and Manipulation of Gold Nanocatalysis: Effects of Metal Oxide Support Thickness and Composition. Journal of the American Chemical Society, 2009, 131, 538-548.	13.7	203
35	Structure and solvation forces in confined films: Linear and branched alkanes. Journal of Chemical Physics, 1997, 106, 4309-4318.	3.0	202
36	Melting of Gold Clusters: Icosahedral Precursors. Physical Review Letters, 1998, 81, 2036-2039.	7.8	199

#	Article	IF	Citations
37	Structure and Magnetism of Neutral and Anionic Palladium Clusters. Physical Review Letters, 2001, 86, 2545-2548.	7.8	198
38	Symmetry breaking and quantum correlations in finite systems: studies of quantum dots and ultracold Bose gases and related nuclear and chemical methods. Reports on Progress in Physics, 2007, 70, 2067-2148.	20.1	198
39	Size-Dependent Structural Evolution and Chemical Reactivity of Gold Clusters. ChemPhysChem, 2007, 8, 157-161.	2.1	197
40	Preparation, structure, dynamics, and energetics of amorphous silicon: A molecular-dynamics study. Physical Review B, 1989, 40, 1164-1174.	3.2	192
41	Interfacial alkane films. Physical Review Letters, 1992, 69, 1967-1970.	7.8	191
42	Factors in gold nanocatalysis: oxidation of CO in the non-scalable size regime. Topics in Catalysis, 2007, 44, 145-158.	2.8	190
43	Metal-Semiconductor Nanocontacts: Silicon Nanowires. Physical Review Letters, 2000, 85, 1958-1961.	7.8	188
44	Preparation and melting of amorphous silicon by molecular-dynamics simulations. Physical Review B, 1988, 37, 4656-4663.	3.2	186
45	Predicted Oxidation of CO Catalyzed by Au Nanoclusters on a Thin Defect-Free MgO Film Supported on a Mo(100) Surface. Journal of the American Chemical Society, 2007, 129, 2228-2229.	13.7	167
46	Atomistic mechanisms of adhesive contact formation and interfacial processes. Wear, 1992, 153, 3-30.	3.1	164
47	Electron Localization in Alkali-Halide Clusters. Physical Review Letters, 1985, 54, 1860-1863.	7.8	162
48	Electron localization in water clusters. I. Electronâ€“water pseudopotential. Journal of Chemical Physics, 1988, 88, 4421-4428.	3.0	158
49	Structural and dynamical consequences of interactions in interfacial systems. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 2829-2839.	2.1	154
50	Lattice relaxation at metal surfaces: An electrostatic model. Physical Review B, 1980, 21, 448-457.	3.2	148
51	Faceting at the silicon (100) crystal-melt interface: Theory and experiment. Physical Review Letters, 1986, 56, 155-158.	7.8	146
52	Atomic-Scale Issues in Tribology:Â Interfacial Junctions and Nano-elastohydrodynamicsâ€. Langmuir, 1996, 12, 4514-4528.	3.5	141
53	Au₆₇(SR)₃₅ Nanomolecules: Characteristic Size-Specific Optical, Electrochemical, Structural Properties and First-Principles Theoretical Analysis. Journal of Physical Chemistry A, 2013, 117, 504-517.	2.5	140
54	Surface melting of Ni(110). Physical Review B, 1990, 41, 439-450.	3.2	137

#	Article	IF	Citations
55	Methane Activation and Catalytic Ethylene Formation on Free Au₂⁺. Angewandte Chemie - International Edition, 2010, 49, 980-983.	13.8	137
56	Structures, solvation forces and shear of molecular films in a rough nano-confinement. Tribology Letters, 2000, 9, 3-13.	2.6	136
57	Gold Nanowires and Their Chemical Modifications. Journal of Physical Chemistry B, 1999, 103, 8814-8816.	2.6	135
58	Nanomechanics and dynamics of tipâ€“substrate interactions. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1991, 9, 414.	1.6	134
59	Hydration of sodium in water clusters. Physical Review Letters, 1993, 70, 1775-1778.	7.8	134
60	Cluster-derived structures and conductance fluctuations in nanowires. Nature, 1997, 387, 788-791.	27.8	131
61	Friction Control in Thin-Film Lubrication. Journal of Physical Chemistry B, 1998, 102, 5033-5037.	2.6	129
62	Hydrogen-bonded structure and mechanical chiral response of a silver nanoparticle superlattice. Nature Materials, 2014, 13, 807-811.	27.5	128
63	Patterns and barriers for fission of charged small metal clusters. Physical Review Letters, 1991, 67, 3058-3061.	7.8	126
64	Electronic shell effects in triaxially deformed metal clusters: A systematic interpretation of experimental observations. Physical Review B, 1995, 51, 1902-1917.	3.2	125
65	Origins of Solvation Forces in Confined Films. Journal of Physical Chemistry B, 1997, 101, 4013-4023.	2.6	125
66	Stabilized-jellium description of neutral and multiply charged fullerenes CxÂ±60. Chemical Physics Letters, 1994, 217, 175-185.	2.6	123
67	Chemistry and Structure of Silver Molecular Nanoparticles. Accounts of Chemical Research, 2018, 51, 3104-3113.	15.6	123
68	Surface states of excess electrons on water clusters. Physical Review Letters, 1987, 59, 811-814.	7.8	122
69	STEM Electron Diffraction and High-Resolution Images Used in the Determination of the Crystal Structure of the Au₁₄₄(SR)₆₀ Cluster. Journal of Physical Chemistry Letters, 2013, 4, 975-981.	4.6	122
70	CO Combustion on Supported Gold Clusters. ChemPhysChem, 2006, 7, 1871-1879.	2.1	121
71	The Superstable 25 kDa Monolayer Protected Silver Nanoparticle: Measurements and Interpretation as an Icosahedral Ag₁₅₂(SCH₂CH₂Ph)₆₀ Cluster. Nano Letters, 2012, 12, 5861-5866.	9.1	121
72	Collective and Independent-Particle Motion in Two-Electron Artificial Atoms. Physical Review Letters, 2000, 85, 1726-1729.	7.8	119

#	Article	IF	Citations
73	Relaxation dynamics following transition of solvated electrons. Journal of Chemical Physics, 1989, 90, 4413-4422.	3.0	117
74	Structure sensitivity in the nonscalable regime explored via catalysed ethylene hydrogenation on supported platinum nanoclusters. Nature Communications, 2016, 7, 10389.	12.8	115
75	Collective excitations of multishell carbon microstructures: Multishell fullerenes and coaxial nanotubes. Physical Review B, 1996, 53, 10225-10236.	3.2	113
76	Hydrogen-Promoted Oxygen Activation by Free Gold Cluster Cations. Journal of the American Chemical Society, 2009, 131, 8939-8951.	13.7	113
77	Aluminum cluster anions: Photoelectron spectroscopy andab initiosimulations. Physical Review B, 2000, 62, 13216-13228.	3.2	111
78	Controlled Deposition and Classification of Copper Nanoclusters. The Journal of Physical Chemistry, 1994, 98, 3527-3537.	2.9	110
79	Theory of Physisorption: He on Metals. Physical Review B, 1973, 8, 5484-5495.	3.2	109
80	Dynamics and spectra of a solvated electron in water clusters. Journal of Chemical Physics, 1988, 89, 2242-2256.	3.0	106
81	Optical spectra of localized excess electrons in alkali halide clusters. Physical Review Letters, 1990, 64, 2933-2936.	7.8	106
82	Surface premelting of Cu(110). Physical Review B, 1991, 44, 3226-3239.	3.2	106
83	Nanowire Gold Chains:Â Formation Mechanisms and Conductance. Journal of Physical Chemistry B, 2000, 104, 9063-9066.	2.6	106
84	Metallization of ionic clusters. Physical Review Letters, 1991, 67, 727-730.	7.8	104
85	Superheating, melting, and annealing of copper surfaces. Physical Review Letters, 1993, 71, 1023-1026.	7.8	103
86	Quantum dynamical simulations of nonadiabatic processes: Solvation dynamics of the hydrated electron. Physical Review Letters, 1991, 67, 1011-1014.	7.8	101
87	Structure and dynamics of nâ€alkanes confined by solid surfaces. I. Stationary crystalline boundaries. Journal of Chemical Physics, 1992, 97, 1937-1949.	3.0	99
88	Size dependence of the energetics of electron attachment to large water clusters. Chemical Physics Letters, 1988, 145, 382-386.	2.6	97
89	Multilayer lattice relaxation at metal surfaces: A total-energy minimization. Physical Review B, 1983, 28, 1685-1695.	3.2	96
90	Genetic Algorithms for Structural Cluster Optimization. Journal of Physical Chemistry A, 1998, 102, 6129-6137.	2.5	94

#	Article	IF	Citations
91	Instability Driven Fragmentation of Nanoscale Fractal Islands. Physical Review Letters, 2002, 88, 196103.	7.8	94
92	Quantum electronic transport through three-dimensional microconstrictions with variable shapes. Physical Review B, 1996, 53, 4054-4064.	3.2	92
93	Molecular-orbital-self-consistent-field cluster model ofH2O adsorption on copper. Physical Review B, 1985, 32, 1430-1433.	3.2	91
94	Nanojets, Electrospray, and Ion Field Evaporation: Molecular Dynamics Simulations and Laboratory Experiments. Journal of Physical Chemistry A, 2008, 112, 9628-9649.	2.5	91
95	Infinite Conical Well: An Analytic Model for Quantum Mechanical Hindered Rotors. Physical Review Letters, 1982, 49, 426-430.	7.8	88
96	Dynamics and energy release in fission of small doubly charged clusters. Physical Review Letters, 1994, 72, 1636-1639.	7.8	87
97	Bornâ€“Oppenheimer dynamics using densityâ€functional theory: Equilibrium and fragmentation of small sodium clusters. Journal of Chemical Physics, 1991, 94, 608-616.	3.0	85
98	Excitedâ€state dynamics of rareâ€gas clusters. Journal of Chemical Physics, 1988, 88, 4273-4288.	3.0	84
99	All-quantum simulations: H3O+ and H5O2+. Chemical Physics Letters, 1995, 237, 161-170.	2.6	78
100	Molecular-dynamics simulations of epitaxial crystal growth from the melt. I. Si(100). Physical Review B, 1988, 37, 4637-4646.	3.2	77
101	Two-dimensional quantum dots in high magnetic fields: Rotating-electron-molecule versus composite-fermion approach. Physical Review B, 2003, 68, .	3.2	77
102	Size-Selected Monodisperse Nanoclusters on Supported Graphene: Bonding, Isomerism, and Mobility. Nano Letters, 2012, 12, 5907-5912.	9.1	76
103	Crystal-melt and melt-vapor interfaces of nickel. Physical Review B, 1989, 40, 924-932.	3.2	75
104	Multilayer lattice relaxation at metal surfaces. Physical Review B, 1983, 27, 6534-6537.	3.2	73
105	Edge states, Aharonov-Bohm oscillations, and thermodynamic and spectral properties in a two-dimensional electron gas with an antidot. Physical Review B, 1995, 52, 14067-14077.	3.2	73
106	Structure and Energetics of Ionized Water Clusters:â€‰(H2O)n+, n = 2â^'5. Journal of Physical Chemistry A, 1997, 101, 164-169.	2.5	73
107	Shell-correction method for calculating the binding energy of metal clusters: Application to multiply charged anions. Physical Review B, 1993, 48, 8376-8387.	3.2	72
108	Intercalation of Trioxatriangulenium Ion in DNA:Â Binding, Electron Transfer, X-ray Crystallography, and Electronic Structure. Journal of the American Chemical Society, 2003, 125, 2072-2083.	13.7	72

#	Article	IF	Citations
109	Metal-on-metal thin-film growth: Au/Ni(001) and Ni/Au(001). Physical Review B, 1991, 44, 5970-5972.	3.2	71
110	Selective Câ˜H Bond Cleavage in Methane by Small Gold Clusters. Angewandte Chemie - International Edition, 2017, 56, 13406-13410.	13.8	71
111	Surface and internal excess electron states in molecular clusters. Accounts of Chemical Research, 1989, 22, 350-357.	15.6	69
112	Molecular Dynamics in Shape Space and Femtosecond Vibrational Spectroscopy of Metal Clusters. Journal of Physical Chemistry A, 1998, 102, 2505-2508.	2.5	68
113	Cluster isomerization induced by electron attachment. Journal of Chemical Physics, 1987, 87, 2716-2723.	3.0	67
114	Energetics and structures of aluminum-lithium clusters. Physical Review B, 1993, 48, 1820-1824.	3.2	67
115	Trial wave functions with long-range Coulomb correlations for two-dimensionalN-electron systems in high magnetic fields. Physical Review B, 2002, 66, .	3.2	67
116	Energetics and structures of neutral and chargedSins(nâ©½10) and sodium-dopedSinNa clusters. Physical Review B, 1997, 55, 7935-7944.	3.2	66
117	Hydrogen Welding and Hydrogen Switches in a Monatomic Gold Nanowire. Nano Letters, 2004, 4, 1845-1852.	9.1	66
118	Multiply Charged Metal Cluster Anions. Physical Review Letters, 2001, 86, 2996-2999.	7.8	64
119	Ethylene hydrogenation on supported Ni, Pd and Pt nanoparticles: Catalyst activity, deactivation and the d-band model. Journal of Catalysis, 2016, 333, 51-58.	6.2	62
120	Dynamics of excess electron migration, solvation, and spectra in polar molecular clusters. Journal of Chemical Physics, 1989, 91, 5567-5580.	3.0	60
121	Quantum simulations and ab initio electronic structure studies of (H2O)â˜2. Journal of Chemical Physics, 1989, 91, 7797-7808.	3.0	59
122	Energetics, forces, and quantized conductance in jellium-modeled metallic nanowires. Physical Review B, 1998, 57, 4872-4882.	3.2	59
123	Effect of Base Sequence and Hydration on the Electronic and Hole Transport Properties of Duplex DNA:Â Theory and Experimentâ€. Journal of Physical Chemistry A, 2003, 107, 3525-3537.	2.5	58
124	Electric Field Control of Structure, Dimensionality, and Reactivity of Gold Nanoclusters on Metal-Supported MgO Films. Physical Review Letters, 2008, 100, 056102.	7.8	58
125	Temperature-Tunable Selective Methane Catalysis on Au₂⁺: From Cryogenic Partial Oxidation Yielding Formaldehyde to Cold Ethylene Production. Journal of Physical Chemistry C, 2011, 115, 6788-6795.	3.1	57
126	Effect of Spatial Dispersion upon Physisorption Energies: He on Metals. Physical Review Letters, 1974, 33, 524-527.	7.8	56

#	Article	IF	Citations
127	Nanotribology and the Stability of Nanostructures. Japanese Journal of Applied Physics, 1993, 32, 1444-1462.	1.5	56
128	Theoretical studies of the spectroscopy of excess electrons in water clusters. Journal of Chemical Physics, 1990, 93, 6226-6238.	3.0	55
129	Solid and liquid junctions. Computational Materials Science, 1992, 1, 1-24.	3.0	55
130	On Mesoscopic Forces and Quantized Conductance in Model Metallic Nanowires. Journal of Physical Chemistry B, 1997, 101, 5780-5783.	2.6	55
131	Structure and dynamics of surface crystallization of liquidn-alkanes. Physical Review B, 1993, 48, 11313-11316.	3.2	54
132	Multilayer Relaxation of Interlayer Registry and Spacing at High-Index Metal Surfaces. Physical Review Letters, 1983, 51, 1359-1361.	7.8	53
133	Excess electrons in polar molecular clusters. Journal of Chemical Physics, 1988, 88, 6670-6671.	3.0	53
134	Materials by numbers: Computations as tools of discovery. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6671-6678.	7.1	53
135	Molecular-dynamics studies of the growth modes and structure of amorphous silicon films via atom deposition. Physical Review B, 1989, 40, 11733-11746.	3.2	52
136	Formation and control of electron molecules in artificial atoms: Impurity and magnetic-field effects. Physical Review B, 2000, 61, 15895-15904.	3.2	52
137	Einfluss der geometrischen und elektronischen Struktur sowie der elementaren Zusammensetzung von Clustern auf chemische Prozesse in der Nanometerskala. Angewandte Chemie, 2003, 115, 1335-1338.	2.0	52
138	Fundamental Insight into the Substrateâ€Dependent Ripening of Monodisperse Clusters. ChemCatChem, 2013, 5, 3330-3341.	3.7	52
139	Excess electrons in ammonia clusters. Chemical Physics Letters, 1988, 148, 249-252.	2.6	51
140	Molecular-dynamics simulations of epitaxial crystal growth from the melt. II. Si(111). Physical Review B, 1988, 37, 4647-4655.	3.2	51
141	Multiply charged anionic metal clusters. Chemical Physics Letters, 1993, 210, 437-442.	2.6	51
142	Electronic Entropy, Shell Structure, and Size-Evolutionary Patterns of Metal Clusters. Physical Review Letters, 1997, 78, 1424-1427.	7.8	49
143	Stochastic theory of multistate diffusion in perfect and defective systems. I. Mathematical formalism. Physical Review B, 1979, 19, 6207-6219.	3.2	48
144	Stability and Collapse of Metallic Structures on Surfaces. Physical Review Letters, 1994, 73, 569-572.	7.8	48

#	Article	IF	Citations
145	Photoabsorption Spectra of Nan+ Clusters: Thermal Line-Broadening Mechanisms. Physical Review Letters, 2001, 87, 053401.	7.8	48
146	Group theoretical analysis of symmetry breaking in two-dimensional quantum dots. Physical Review B, 2003, 68, .	3.2	48
147	The Missing Link: Au191(SPh-tBu)66 Janus Nanoparticle with Molecular and Bulk-Metal-like Properties. Journal of the American Chemical Society, 2020, 142, 15799-15814.	13.7	48
148	Low-Temperature CO Oxidation Catalyzed by Free Palladium Clusters: Similarities and Differences to Pd Surfaces and Supported Particles. ACS Catalysis, 2015, 5, 2275-2289.	11.2	47
149	Epitaxial Crystallization from a Melt: A Surface Molecular-Dynamics Study. Physical Review Letters, 1980, 45, 2032-2035.	7.8	46
150	Dimensionality crossovers of the Ïƒ plasmon in coaxial carbon nanotubes. Physical Review B, 1994, 50, 7977-7980.	3.2	45
151	Dynamical simulations of stress, strain, and finite deformations. Physical Review B, 1988, 38, 9522-9537.	3.2	44
152	Dynamics of Electron Localization, Solvation, and Migration in Polar Molecular Clusters. Physical Review Letters, 1989, 62, 106-109.	7.8	44
153	Crystalline Boson Phases in Harmonic Traps: Beyond the Gross-Pitaevskii Mean Field. Physical Review Letters, 2004, 93, 230405.	7.8	44
154	Adsorption on heterogeneous surfaces. I. Evaluation of the energy distribution function via the Wiener and Hopf method. Journal of Chemical Physics, 1976, 64, 1762-1767.	3.0	43
155	Further evaluation of the transform-deconvolution method for surface-structure determination by analysis of low-energy electron-diffraction intensities. Physical Review B, 1977, 15, 3775-3787.	3.2	43
156	Dielectrons in water clusters. Journal of Chemical Physics, 1992, 97, 1365-1377.	3.0	43
157	Oxidation State and Symmetry of Magnesia-Supported Pd₁₃O_x Nanocatalysts Influence Activation Barriers of CO Oxidation. Journal of the American Chemical Society, 2012, 134, 7690-7699.	13.7	43
158	Diffusion of Gold Clusters on Defective Graphite Surfaces. Journal of Physical Chemistry B, 2003, 107, 5882-5891.	2.6	42
159	Molecular Dynamics of a Laser-Annealing Experiment. Physical Review Letters, 1982, 49, 790-793.	7.8	41
160	Structure, collective hydrogen transfer, and formation of Si(OH)4 in SiO2â€“(H2O)n clusters. Journal of Chemical Physics, 2002, 116, 9300-9304.	3.0	41
161	Microscopic theory of thermal desorption and dissociation processes catalyzed by a solid surface. Physical Review B, 1980, 21, 3256-3268.	3.2	40
162	Sizeâ€Đependent Binding Energies of Methane to Small Gold Clusters. ChemPhysChem, 2010, 11, 1570-1577.	2.1	40

#	Article	IF	Citations
163	Oxidation of Magnesia-Supported Pd₃₀ Nanoclusters and Catalyzed CO Combustion: Size-Selected Experiments and First-Principles Theory. Journal of Physical Chemistry C, 2012, 116, 9594-9607.	3.1	40
164	Atomically Precise Silver Clusters as New SERS Substrates. Journal of Physical Chemistry Letters, 2013, 4, 2769-2773.	4.6	40
165	Structural Variations and Multiple Charge Transfer Transitions between Chloranil and Carbazole Derivatives. Macromolecules, 1976, 9, 833-839.	4.8	39
166	Confirmation of a de novo structure prediction for an atomically precise monolayer-coated silver nanoparticle. Science Advances, 2016, 2, e1601609.	10.3	39
167	Structural properties of electrons in quantum dots in high magnetic fields: Crystalline character of cusp states and excitation spectra. Physical Review B, 2004, 70, .	3.2	38
168	High-Frequency Mechanical Stirring Initiates Anisotropic Growth of Seeds Requisite for Synthesis of Asymmetric Metallic Nanoparticles like Silver Nanorods. Nano Letters, 2013, 13, 4739-4745.	9.1	38
169	Dimensionality Dependent Water Splitting Mechanisms on Free Manganese Oxide Clusters. Nano Letters, 2013, 13, 5549-5555.	9.1	38
170	Surface structure determination via a transform-deconvolution method. Journal of Vacuum Science and Technology, 1974, 11, 195-200.	1.9	37
171	Molecular-dynamics study of elasticity and failure of ideal solids. Physical Review B, 1991, 44, 378-381.	3.2	37
172	Strongly correlated wavefunctions for artificial atoms and molecules. Journal of Physics Condensed Matter, 2002, 14, L591-L598.	1.8	37
173	Dielectron Attachment and Hydrogen Evolution Reaction in Water Clusters. Journal of Physical Chemistry A, 2011, 115, 7378-7391.	2.5	37
174	M₄Ag₄₄(p-MBA)₃₀ Molecular Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 11238-11249.	3.1	37
175	Pd₆O₄⁺: An Oxidation Resistant yet Highly Catalytically Active Nano-oxide Cluster. Journal of the American Chemical Society, 2012, 134, 20654-20659.	13.7	36
176	Assessing the concept of structure sensitivity or insensitivity for sub-nanometer catalyst materials. Surface Science, 2016, 652, 7-19.	1.9	36
177	Stochastic theory of multistate diffusion in perfect and defective systems. II. Case studies. Physical Review B, 1979, 19, 6220-6237.	3.2	35
178	Excess electron transport in water. Journal of Chemical Physics, 1990, 93, 8187-8195.	3.0	35
179	Water Adsorption and Reactions on Small Sodium Chloride Clusters. The Journal of Physical Chemistry, 1996, 100, 13950-13958.	2.9	34
180	Nonlinear Peltier effect and thermoconductance in nanowires. Physical Review B, 1999, 60, 11678-11682.	3.2	34

#	Article	IF	Citations
181	Oxidative Damage to DNA:Â Counterion-Assisted Addition of Water to Ionized DNA. Journal of the American Chemical Society, 2006, 128, 10795-10800.	13.7	34
182	M₃Ag₁₇(SPh)₁₂ Nanoparticles and Their Structure Prediction. Journal of the American Chemical Society, 2015, 137, 11550-11553.	13.7	33
183	Cluster motion on surfaces: A stochastic model. Physical Review B, 1977, 16, 3389-3405.	3.2	32
184	Theoretical considerations of energetics, dynamics, and structure at interfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 1574-1587.	2.1	32
185	Magnetic-field manipulation of chemical bonding in artificial molecules. International Journal of Quantum Chemistry, 2002, 90, 699-708.	2.0	32
186	Chemical and Catalytic Properties of Size-Selected Free and Supported Clusters. Nanoscience and Technology, 2007, , 1-191.	1.5	32
187	Three-electron anisotropic quantum dots in variable magnetic fields: Exact results for excitation spectra, spin structures, and entanglement. Physical Review B, 2007, 76, .	3.2	32
188	Controlling Ethylene Hydrogenation Reactivity on Pt₁₃ Clusters by Varying the Stoichiometry of the Amorphous Silica Support. Angewandte Chemie - International Edition, 2016, 55, 8953-8957.	13.8	32
189	Direct Transform-Deconvolution Method for Surface-Structure Determination. Physical Review Letters, 1974, 33, 585-589.	7.8	31
190	Bonding, Conductance, and Magnetization of Oxygenated Au Nanowires. Physical Review Letters, 2008, 100, 046801.	7.8	31
191	Oxidative Thymine Mutation in DNA: Water-Wire-Mediated Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2013, 135, 3904-3914.	13.7	31
192	Selective Câ˜H Bond Cleavage in Methane by Small Gold Clusters. Angewandte Chemie, 2017, 129, 13591-13595.	2.0	31
193	Electrical and mechanical properties of metallic nanowires: Conductance quantization and localization. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 1280.	1.6	30
194	Cluster size and composition dependent water deprotonation by free manganese oxide clusters. Physical Chemistry Chemical Physics, 2016, 18, 15727-15737.	2.8	30
195	Interaction of Ironâ€“Sulfur Clusters with N₂: Biomimetic Systems in the Gas Phase. Journal of Physical Chemistry C, 2016, 120, 12549-12558.	3.1	30
196	Energetics, structure and excess electrons in small sodium-chloride clusters. Chemical Physics Letters, 1995, 232, 79-89.	2.6	29
197	Magnetic switching and thermal enhancement of quantum transport through nanowires. Physical Review B, 1996, 53, R13246-R13249.	3.2	29
198	Unified description of floppy and rigid rotating Wigner molecules formed in quantum dots. Physical Review B, 2004, 69, .	3.2	29

#	Article	IF	Citations
199	Ethene to Graphene: Surface Catalyzed Chemical Pathways, Intermediates, and Assembly. Journal of Physical Chemistry C, 2017, 121, 9413-9423.	3.1	29
200	Single-ion and pair-interaction potentials near simple metal surfaces. Physical Review B, 1983, 28, 1667-1684.	3.2	28
201	On nanotribological interactions: Hard and soft interfacial junctions. Solid State Communications, 1998, 107, 693-708.	1.9	28
202	Thermopower of quantum nanowires in a magnetic field. Physical Review B, 1996, 54, R11094-R11097.	3.2	27
203	Atomic Dimer Shuttling and Two-Level Conductance Fluctuations in Nb Nanowires. Physical Review Letters, 2007, 98, 046802.	7.8	27
204	High-frequency vibrational modes at stepped Pt(111) surfaces. Physical Review B, 1979, 20, 1755-1757.	3.2	26
205	Reactions in clusters. Journal of Chemical Physics, 1991, 95, 4997-5013.	3.0	26
206	Equilibrium interphase interfaces and premelting of the Pb(110) surface. Physical Review B, 1995, 51, 10972-10980.	3.2	26
207	Shape effects on conductance quantization in three-dimensional nanowires: Hard versus soft potentials. Physical Review B, 1997, 56, 1065-1068.	3.2	26
208	Oxidation of small gas phase Pd clusters: A density functional study. Computational Materials Science, 2006, 35, 371-374.	3.0	26
209	Dielectric Nanodroplets: Structure, Stability, Thermodynamics, Shape Transitions and Electrocrystallization in Applied Electric Fields. Journal of Physical Chemistry C, 2011, 115, 20343-20358.	3.1	26
210	Motion of Clusters on Surfaces. Physical Review Letters, 1977, 38, 285-289.	7.8	25
211	Structure and Dynamics of a Metallic Glass: Molecular-Dynamics Simulations. Physical Review Letters, 1985, 55, 2035-2038.	7.8	25
212	Vibrational predissociation induced by exciton trapping in inert-gas clusters. Chemical Physics Letters, 1986, 126, 495-500.	2.6	25
213	Dynamics and excitations of a solvated electron in molecular clusters. Physical Review A, 1988, 38, 2178-2181.	2.5	25
214	Energetics and structure ofHe4droplets at a finite temperature. Physical Review B, 1989, 39, 117-123.	3.2	25
215	Molecular evaporation and condensation of liquid nâ€alkane films. Journal of Chemical Physics, 1994, 101, 2498-2507.	3.0	25
216	Rapidly rotating boson molecules with long- or short-range repulsion: An exact diagonalization study. Physical Review A, 2007, 75, .	2.5	25

#	Article	IF	Citations
217	New Molecular-Dynamics Method for Metallic Systems. Physical Review Letters, 1985, 54, 1679-1682.	7.8	24
218	Primary events following electron injection into water and adsorbed water layers. Journal of Chemical Physics, 1990, 93, 6535-6542.	3.0	24
219	Edge states in graphene quantum dots: Fractional quantum Hall effect analogies and differences at zero magnetic field. Physical Review B, 2009, 79, .	3.2	24
220	The Interaction of Water with Free Mn₄O₄⁺ Clusters: Deprotonation and Adsorptionâ€Induced Structural Transformations. Angewandte Chemie - International Edition, 2015, 54, 15113-15117.	13.8	24
221	Can Support Acidity Predict Sub-Nanometer Catalyst Activity Trends?. ACS Catalysis, 2017, 7, 6738-6744.	11.2	24
222	Bare Clusters Derived from Protein Templates: Au₂₅⁺, Au₃₈⁺ and Au₁₀₂⁺. ChemPhysChem, 2013, 14, 1272-1282.	2.1	23
223	Double-Well Ultracold-Fermions Computational Microscopy: Wave-Function Anatomy of Attractive-Pairing and Wigner-Molecule Entanglement and Natural Orbitals. Nano Letters, 2015, 15, 7105-7111.	9.1	23
224	Hindered and modulated rotations of adsorbed diatomic molecules: States and spectra. Physical Review B, 1984, 29, 4313-4326.	3.2	22
225	Dynamics, Spectra, and Relaxation Phenomena of Excess Electrons in Clusters. Israel Journal of Chemistry, 1990, 30, 85-105.	2.3	22
226	Magneto-optics of electronic transport in nanowires. Physical Review B, 1998, 58, 16305-16314.	3.2	22
227	From a few to many electrons in quantum dots under strong magnetic fields: Properties of rotating electron molecules with multiple rings. Physical Review B, 2006, 73, .	3.2	22
228	Unique nature of the lowest Landau level in finite graphene samples with zigzag edges: Dirac electrons with mixed bulk-edge character. Physical Review B, 2011, 83, .	3.2	22
229	Size-Dependent Self-Limiting Oxidation of Free Palladium Clusters. Journal of Physical Chemistry A, 2014, 118, 8572-8582.	2.5	22
230	Water Deprotonation via Oxo-Bridge Hydroxylation and ¹⁸O-Exchange in Free Tetra-Manganese Oxide Clusters. Journal of Physical Chemistry C, 2015, 119, 10881-10887.	3.1	22
231	Ultracold few fermionic atoms in needle-shaped double wells: spin chains and resonating spin clusters from microscopic Hamiltonians emulated via antiferromagnetic Heisenberg andtâ€“Jmodels. New Journal of Physics, 2016, 18, 073018.	2.9	22
232	Synthetic and Postsynthetic Chemistry of M₄Au_xAg_{44â€“x}(p-MBA)₃₀ Alloy Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 13166-13174.	3.1	22
233	Variational solutions of simple quantum systems subject to variable boundary conditions. II. Shallow donor impurities near semiconductor interfaces: Si, Ge. Physical Review B, 1984, 29, 4524-4533.	3.2	21
234	Nonuniversal Transmission Phase Lapses through a Quantum Dot: An Exact Diagonalization of the Many-Body Transport Problem. Physical Review Letters, 2008, 101, 136803.	7.8	21

#	Article	IF	Citations
235	Barriers and Deformation in Fission of Charged Metal Clusters. The Journal of Physical Chemistry, 1995, 99, 14577-14581.	2.9	20
236	Patterns of the Aharonov-Bohm oscillations in graphene nanorings. Physical Review B, 2012, 85, .	3.2	20
237	Nonlinear magnetoconductance of nanowires. Physical Review B, 1997, 56, 14917-14920.	3.2	19
238	Decay channels and appearance sizes of doubly anionic gold and silver clusters. Physical Review B, 2000, 61, R10587-R10589.	3.2	19
239	Heat current fluctuations in quantum wires. Physical Review B, 2001, 64, .	3.2	19
240	SMALL IS DIFFERENT. International Journal of Modern Physics B, 1992, 06, 3623-3642.	2.0	18
241	Atomistic dynamics of interfacial processes: films, junctions and nanostructures. Applied Surface Science, 1996, 92, 237-256.	6.1	18
242	Nonlinear peltier effect in quantum point contacts. Solid State Communications, 1998, 108, 851-855.	1.9	18
243	Bosonic Molecules in Rotating Traps. Physical Review Letters, 2006, 97, 090401.	7.8	18
244	Steric Effects on Water Accessability Control Sequence-Selectivity of Radical Cation Reactions in DNA. Journal of the American Chemical Society, 2007, 129, 8408-8409.	13.7	18
245	Electronic energy spectra in antiferromagnetic media with broken reciprocity. Physical Review B, 1997, 55, 12566-12571.	3.2	17
246	Noise in three-dimensional nanowires. Physical Review B, 1998, 57, 6654-6661.	3.2	17
247	Electron and boson clusters in confined geometries: Symmetry breaking in quantum dots and harmonic traps. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10600-10605.	7.1	17
248	Prediction of Physisorption Interaction Energies: He on Metals. Physical Review Letters, 1973, 31, 707-710.	7.8	16
249	Surface segregation in simple metal alloys: An electronic theory. Physical Review B, 1983, 28, 6647-6658.	3.2	16
250	Artificial quantum-dot helium molecules: Electronic spectra, spin structures, and Heisenberg clusters. Physical Review B, 2009, 80, .	3.2	16
251	Unified microscopic approach to the interplay of pinned-Wigner-solid and liquid behavior of the lowest Landau-level states in the neighborhood of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î½</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn>1</mml:mn><mml:mn>3</mml:mn><mml:m Physical Review B, 2011, 84, .	3.2	16
252	Dynamic fluxionality and enhanced CO adsorption in the presence of coadsorbed H2O on free gold cluster cations. International Journal of Mass Spectrometry, 2015, 377, 393-402.	1.5	16

#	Article	IF	Citations
253	Thermal Dehydrogenation of Methane Enhanced by Î¼-Oxo Ligands in Tantalum Cluster Cations [TaxO]+, x = 4, 5. Journal of Physical Chemistry C, 2018, 122, 25628-25637.	3.1	16
254	Study of the transform-deconvolution method for surface structure determination. Surface Science, 1975, 51, 149-173.	1.9	15
255	Atomic and molecular quantum mechanics by the path integral molecular dynamics method. Chemical Physics Letters, 1986, 130, 504-510.	2.6	15
256	Thermopower of an infinite Luttinger liquid. Physical Review B, 2002, 65, .	3.2	15
257	Thermal bending of nanojets: Molecular dynamics simulations of an asymmetrically heated nozzle. Applied Physics Letters, 2008, 93, .	3.3	15
258	On Models of Interactive Dynamical Processes at Surfaces. Israel Journal of Chemistry, 1982, 22, 339-359.	2.3	14
259	Shapes ofHe3clusters. Physical Review B, 1996, 54, 7690-7693.	3.2	14
260	Thermoelectric effects in a Luttinger liquid. Low Temperature Physics, 2001, 27, 821-830.	0.6	14
261	Spin-guide source for the generation of highly spin-polarized currents. Physical Review B, 2003, 68, .	3.2	14
262	Topological effects and particle physics analogies beyond the massless Dirac-Weyl fermion in graphene nanorings. Physical Review B, 2013, 87, .	3.2	14
263	Two-point momentum correlations of few ultracold quasi-one-dimensional trapped fermions: Diffraction patterns. Physical Review A, 2017, 96, .	2.5	14
264	Highly Ordered Boron Nitride/Epigraphene Epitaxial Films on Silicon Carbide by Lateral Epitaxial Deposition. ACS Nano, 2020, 14, 12962-12971.	14.6	14
265	Optical absorption spectra of (H2O)n. Chemical Physics Letters, 1988, 152, 353-357.	2.6	13
266	Quantum mechanical simulations of water and ammonia molecules and their clusters. International Journal of Quantum Chemistry, 1995, 56, 615-620.	2.0	13
267	Interaction enhanced thermopower in a Luttinger liquid. Physical Review B, 2001, 63, .	3.2	13
268	Beyond the constant-mass Dirac physics: Solitons, charge fractionization, and the emergence of topological insulators in graphene rings. Physical Review B, 2014, 89, .	3.2	13
269	Transport, Aharonovâ€“Bohm, and Topological Effects in Graphene Molecular Junctions and Graphene Nanorings. Journal of Physical Chemistry C, 2015, 119, 11131-11142.	3.1	13
270	Interatomic interaction effects on second-order momentum correlations and Hong-Ou-Mandel interference of double-well-trapped ultracold fermionic atoms. Physical Review A, 2018, 97, .	2.5	13

#	Article	IF	Citations
271	Infrared Spectroscopy of Gas-Phase Mn_xO_y(CO₂)_z⁺ Complexes. Journal of Physical Chemistry A, 2020, 124, 1561-1566.	2.5	13
272	Truncation, potential, and temperature effects in the transformâ^'deconvolution method. Journal of Vacuum Science and Technology, 1975, 12, 260-262.	1.9	12
273	Diffusion processes in defective crystals and multistate diffusion. Solid State Communications, 1978, 27, 939-942.	1.9	12
274	The interaction of ethylene with free gold cluster cations: infrared photodissociation spectroscopy combined with electronic and vibrational structure calculations. Journal of Physics Condensed Matter, 2018, 30, 504001.	1.8	12
275	Liquidlike Cu atom diffusion in weakly ionic compounds <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mathvariant="normal">S</mml:mi></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mathvariant="normal">Se</mml:mi></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	3.2	12
276	Dynamics of tip-substrate interactions in atomic force microscopy. Surface Science Letters, 1989, 210, L177-L184.	0.1	11
277	Comment on â€œDensity functional theory study of some structural and energetic properties of small lithium clustersâ€•[J. Chem. Phys. 105, 9933 (1996)]. Journal of Chemical Physics, 1997, 107, 1032-1033.	3.0	11
278	Nanowires: size evolution, reversibility, and one-atom contacts. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1997, 40, 282-287.	1.0	11
279	Thermal Quenching of Electronic Shells and Channel Competition in Cluster Fission. Physical Review Letters, 2002, 89, 173403.	7.8	11
280	Symmetry breaking and Wigner molecules in few-electron quantum dots. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1160-1171.	1.8	11
281	Alternating current Josephson effect and resonant superconducting transport through vibrating Nb nanowires. Nature Nanotechnology, 2007, 2, 481-485.	31.5	11
282	Local and nonlocal effects in the theory of physisorption. Journal of Vacuum Science and Technology, 1975, 12, 206-209.	1.9	10
283	A magnetic-field-effect transistor and spin transport. Applied Physics Letters, 2003, 83, 4577-4579.	3.3	10
284	A Gasâ€Phase Ca_nMn_{4â^'n}O₄⁺ Cluster Model for the Oxygenâ€Evolving Complex of Photosystem II. Angewandte Chemie - International Edition, 2019, 58, 8504-8509.	13.8	10
285	Carbide Dihydrides: Carbonaceous Species Identified in Ta₄⁺â€Mediated Methane Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 23631-23635.	13.8	10
286	Model dielectric function for semiconductors: Si. Physical Review B, 1976, 14, 1597-1604.	3.2	9
287	Aharonov-Bohm and Aharonov-Casher tunneling effects and edge states in double-barrier structures. Physical Review B, 1994, 50, 2678-2680.	3.2	9
288	Quantal molecular description and universal aspects of the spectra of bosons and fermions in the lowest Landau level. Physical Review A, 2010, 81, .	2.5	9

#	Article	IF	Citations
289	A Gasâ€Phase Ca_nMn_{4â^'n}O₄⁺ Cluster Model for the Oxygenâ€Evolving Complex of Photosystem II. Angewandte Chemie, 2019, 131, 8592-8597.	2.0	9
290	Selective C H bond activation of ethane by free gold clusters. International Journal of Mass Spectrometry, 2019, 435, 241-250.	1.5	9
291	Isomeric Thiolate Monolayer Protected Au₉₂ and Au₁₀₂ Nanomolecules. Journal of Physical Chemistry C, 2020, 124, 1655-1666.	3.1	9
292	Room-Temperature Methane Activation Mediated by Free Tantalum Cluster Cations: Size-by-Size Reactivity. Journal of Physical Chemistry A, 2021, 125, 5289-5302.	2.5	9
293	Thermal stability of ironâ€“sulfur clusters. Physical Chemistry Chemical Physics, 2018, 20, 7781-7790.	2.8	8
294	Infrared photodissociation spectroscopy of di-manganese oxide cluster cations. Physical Chemistry Chemical Physics, 2019, 21, 23922-23930.	2.8	8
295	Nanocrystal Gold Molecules. , 1996, , 475-490.		8
296	Molecular formations and spectra due to electron correlations in three-electron hybrid double-well qubits. Physical Review B, 2022, 105, .	3.2	8
297	Variational solutions of simple quantum systems subject to variable boundary conditions. I. A model for physisorption. Journal of Chemical Physics, 1984, 80, 1691-1702.	3.0	7
298	Shell structure and shapes of fermion microsystems: A comparative study of 3He and Na clusters. Journal of Chemical Physics, 1996, 105, 8734-8740.	3.0	7
299	QUANTUM DOTS BASED ON PARABOLIC QUANTUM WELLS: IMPORTANCE OF ELECTRONIC CORRELATIONS. International Journal of Modern Physics B, 2007, 21, 1316-1325.	2.0	7
300	Edge and bulk components of lowest-Landau-level orbitals, correlated fractional quantum Hall effect incompressible states, and insulating behavior in finite graphene samples. Physical Review B, 2010, 82, .	3.2	7
301	Interference, spectral momentum correlations, entanglement, and Bell inequality for a trapped interacting ultracold atomic dimer: Analogies with biphoton interferometry. Physical Review A, 2019, 99, .	2.5	7
302	Stochastic Theory of Bimolecular, Heterogeneous, Surface Catalytic Reactions. Physical Review Letters, 1978, 41, 1174-1178.	7.8	6
303	Electron localization in clusters. International Journal of Quantum Chemistry, 1987, 32, 573-587.	2.0	6
304	Barnett and Landman reply. Physical Review Letters, 1992, 69, 1472-1472.	7.8	6
305	Small can be different. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1993, 26, 119-125.	1.0	6
306	Graphene flakes with defective edge terminations: Universal and topological aspects, and one-dimensional quantum behavior. Physical Review B, 2012, 86, .	3.2	6

#	Article	IF	Citations
307	Co-adsorption of O₂ and C₂H₄ on a Free Gold Dimer Probed via Infrared Photodissociation Spectroscopy. Journal of the American Society for Mass Spectrometry, 2019, 30, 1895-1905.	2.8	6
308	Nanotuning via Local Work Function Control: Ethylene Hydrogenation on Supported Pt Nanoclusters. ACS Catalysis, 2020, 10, 1799-1809.	11.2	6
309	M ₄Au₁₂Ag₃₂(p-MBA)₃₀ (M = Na,) Tj ETQq1 1 0.784314 rgBT E: Crystallographic Communications, 2018, 74, 987-993.	0.5	6
310	Fourier transforms in surface structure determination from LEED. The transform-deconvolution method. Faraday Discussions of the Chemical Society, 1975, 60, 230.	2.2	5
311	Microscopic Phenomena of Macroscopic Conseouences:Interfaces, Glasses, and Small Aggregates. Materials Research Society Symposia Proceedings, 1985, 63, 273.	0.1	5
312	Phase-Controlled Force and Magnetization Oscillations in Superconducting Ballistic Nanowires. Physical Review Letters, 2004, 92, 126802.	7.8	5
313	Interplay of relativistic and nonrelativistic transport in atomically precise segmented graphene nanoribbons. Scientific Reports, 2015, 5, 7893.	3.3	5
314	Anyon optics with time-of-flight two-particle interference of double-well-trapped interacting ultracold atoms. Physical Review A, 2019, 100, .	2.5	5
315	Size, Stoichiometry, Dimensionality, and Ca Doping of Manganese Oxide-Based Water Oxidation Clusters: An Oxyl/Hydroxy Mechanism for Oxygenâ€“Oxygen Coupling. Journal of Physical Chemistry Letters, 2021, 12, 5248-5255.	4.6	5
316	Wigner molecules and hybrid qubits. Journal of Physics Condensed Matter, 2022, 34, 21LT01.	1.8	5
317	Perturbation Treatment of the Variable-Phase Method. Physical Review A, 1972, 5, 1-4.	2.5	4
318	Micromechanics and Microdynamics Via Atomistic Simulations. Materials Research Society Symposia Proceedings, 1988, 140, 101.	0.1	4
319	Magnetocohesion of nanowires. Physical Review B, 2000, 62, 10467-10473.	3.2	4
320	Third-order momentum correlation interferometry maps for entangled quantal states of three singly trapped massive ultracold fermions. Physical Review A, 2019, 100, .	2.5	4
321	Exact closed-form analytic wave functions in two dimensions: Contact-interacting fermionic spinful ultracold atoms in a rapidly rotating trap. Physical Review Research, 2021, 3, .	3.6	4
322	Mechanism for anisotropic diffusion of liquid-like Cu atoms in hexagonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi></mml:math>. Physical Review Materials, 2021, 5, .	2.4	4
323	Nanomolecular Metallurgy: Transformation from Au₁₄₄(SCH₂CH₂Ph)₆₀ to Au₂₇₉(SPh-tBu)₈₄. Journal of Physical Chemistry C, 2021, 125, 20488-20502.	3.1	4
324	Materials by numbers. Physica D: Nonlinear Phenomena, 1993, 66, 87-107.	2.8	3

#	Article	IF	Citations
325	Ultrathin magnesia films as support for molecules and metal clusters: Tuning reactivity by thickness and composition. Physica Status Solidi (B): Basic Research, 2010, 247, 1001-1015.	1.5	3
326	Shell-Correction and Orbital-Free Density-Functional Methods for Finite Systems. Recent Advances in Computational, 2013, , 203-249.	0.8	3
327	Bottom-up configuration-interaction emulations of ultracold fermions in entangled optical plaquettes: Building blocks of unconventional superconductivity. Physical Review A, 2017, 95, .	2.5	3
328	Methanol Câ€“O Bond Activation by Free Gold Clusters Probed via Infrared Photodissociation Spectroscopy. Zeitschrift Fur Physikalische Chemie, 2019, 233, 865-880.	2.8	3
329	All-order momentum correlations of three ultracold bosonic atoms confined in triple-well traps: Signatures of emergent many-body quantum phase transitions and analogies with three-photon quantum-optics interference. Physical Review A, 2020, 101, .	2.5	3
330	Energetic Stabilization of Carboxylic Acid Conformers by Manganese Atoms and Clusters. Journal of Physical Chemistry A, 2020, 124, 4990-4997.	2.5	3
331	Structure Relaxation and Liquidlike Enhanced Cu Diffusion at the Surface of Î²-Cu₂S Chalcocite. Nano Letters, 2021, 21, 8895-8900.	9.1	3
332	Interfacial Segregation, Structure, and Diffusion ofn-Alkane Mixture Films Adsorbed on Smooth and Rough Gold Surfaces. Journal of Physical Chemistry C, 2022, 126, 4209-4219.	3.1	3
333	Substrate effects on long-range order and scattering from low-dimensional systems. Physical Review B, 1980, 22, 1784-1788.	3.2	2
334	Diffusion and segregation at surfaces and interfaces. Physical Review B, 1982, 25, 7255-7262.	3.2	2
335	Influence of electronâ€“electron scattering on spin-polarized current states in magnetically wrapped nanowires. Low Temperature Physics, 2003, 29, 606-608.	0.6	2
336	Trial wave functions for ring-trapped ions and neutral atoms: Microscopic description of the quantum space-time crystal. Physical Review A, 2017, 96, .	2.5	2
337	Oxygen Sensitivity of Free Nonligated Ironâ€“Sulfur Clusters. Journal of Physical Chemistry C, 2019, 123, 27681-27689.	3.1	2
338	Fractional quantum Hall physics and higher-order momentum correlations in a few spinful fermionic contact-interacting ultracold atoms in rotating traps. Physical Review A, 2020, 102, .	2.5	2
339	Cluster Size Dependent Interaction of Free Manganese Oxide Clusters with Acetic Acid and Methyl Acetate. Journal of Physical Chemistry A, 2021, 125, 4435-4445.	2.5	2
340	Carbidâ€Ðihydride: kohlenstoffhaltige Spezies identifiziert in der Ta 4 + â€vermittelten Methandehydrierung. Angewandte Chemie, 2020, 132, 23838-23842.	2.0	2
341	Basic research needs and opportunities at the solid-gas interface. Materials Science and Engineering, 1982, 53, 113-124.	0.1	1
342	Formation of Facets at the Solid-Melt Interface in Silicon. Materials Research Society Symposia Proceedings, 1985, 53, 21.	0.1	1

#	Article	IF	Citations
343	Energetics and dynamics of clusters. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1987, 56, 803-804.	0.6	1
344	Energetics of aluminum-lithium clusters. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1993, 26, 296-300.	1.0	1
345	Structural and transport properties of Nb nanowires. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1712-1720.	1.8	1
346	Controlling Ethylene Hydrogenation Reactivity on Pt₁₃ Clusters by Varying the Stoichiometry of the Amorphous Silica Support. Angewandte Chemie, 2016, 128, 9099-9103.	2.0	1
347	Rovibrational Excitation within the Infinite Conical Well: Desorption of Diatomic Molecules. Studies in Surface Science and Catalysis, 1983, 14, 103-110.	1.5	0
348	The onset of disorder in Al(110) surfaces below the melting point. Surface Science Letters, 1989, 220, L693-L700.	0.1	0
349	On some issues in computational materials science. Computational Materials Science, 1994, 2, 209-211.	3.0	0
350	Structure and Binding of Neutral and Charged SinH2O (n = 1, 2, 7) Clusters. Journal of Physical Chemistry A, 1997, 101, 5035-5037.	2.5	0
351	Giant magnetization of a superconductor-two-dimensional electron gas-superconductor structure. Low Temperature Physics, 2008, 34, 868-874.	0.6	0
352	Titelbild: Methanaktivierung und katalytische Ethylenbildung an freiem Au2+(Angew. Chem. 5/2010). Angewandte Chemie, 2010, 122, 833-833.	2.0	0
353	Cover Picture: Methane Activation and Catalytic Ethylene Formation on Free Au2+ (Angew. Chem. Int.) Tj ETQq1 1 0.784314 rgBT /Over	13.8	0
354	A Novel Transform-Deconvolution Method for Surface Structure Determination from LEED Intensities. Japanese Journal of Applied Physics, 1974, 13, A918B.	1.5	0