

Uzi Landman

List of Publications by Year in descending order

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

Version: 2024-02-01

354
papers

31,872
citations

3874

91
h-index

5481

169
g-index

364
all docs

364
docs citations

364
times ranked

19308
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial Segregation, Structure, and Diffusion of <i>n</i> -Alkane Mixture Films Adsorbed on Smooth and Rough Gold Surfaces. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4209-4219.	1.5	3
2	Wigner molecules and hybrid qubits. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 21LT01.	0.7	5
3	Molecular formations and spectra due to electron correlations in three-electron hybrid double-well qubits. <i>Physical Review B</i> , 2022, 105, .	1.1	8
4	Cluster Size Dependent Interaction of Free Manganese Oxide Clusters with Acetic Acid and Methyl Acetate. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4435-4445.	1.1	2
5	Size, Stoichiometry, Dimensionality, and Ca Doping of Manganese Oxide-Based Water Oxidation Clusters: An Oxyl/Hydroxy Mechanism for Oxygen-Oxygen Coupling. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5248-5255.	2.1	5
6	Room-Temperature Methane Activation Mediated by Free Tantalum Cluster Cations: Size-by-Size Reactivity. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5289-5302.	1.1	9
7	Exact closed-form analytic wave functions in two dimensions: Contact-interacting fermionic spinful ultracold atoms in a rapidly rotating trap. <i>Physical Review Research</i> , 2021, 3, .	1.3	4
8	Mechanism for anisotropic diffusion of liquid-like Cu atoms in hexagonal Cu_2S . <i>Physical Review Materials</i> , 2021, 5, .	0.9	4
9	Nanomolecular Metallurgy: Transformation from $\text{Au}_{144}(\text{SCH}_2)_2(\text{SPh})_{60}$ to $\text{Au}_{279}(\text{SPh-t-Bu})_{84}$. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20488-20502.	1.5	4
10	Structure Relaxation and Liquidlike Enhanced Cu Diffusion at the Surface of Cu_2S Chalcocite. <i>Nano Letters</i> , 2021, 21, 8895-8900.	4.5	3
11	Isomeric Thiolate Monolayer Protected Au_{92} and Au_{102} Nanomolecules. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1655-1666.	1.5	9
12	Nanotuning via Local Work Function Control: Ethylene Hydrogenation on Supported Pt Nanoclusters. <i>ACS Catalysis</i> , 2020, 10, 1799-1809.	5.5	6
13	Fractional quantum Hall physics and higher-order momentum correlations in a few spinful fermionic contact-interacting ultracold atoms in rotating traps. <i>Physical Review A</i> , 2020, 102, .	1.0	2
14	The Missing Link: $\text{Au}_{191}(\text{SPh-tBu})_{66}$ Janus Nanoparticle with Molecular and Bulk-Metal-like Properties. <i>Journal of the American Chemical Society</i> , 2020, 142, 15799-15814.	6.6	48
15	Highly Ordered Boron Nitride/Epigraphene Epitaxial Films on Silicon Carbide by Lateral Epitaxial Deposition. <i>ACS Nano</i> , 2020, 14, 12962-12971.	7.3	14
16	Carbide Dihydrides: Carbonaceous Species Identified in Ta_4^+ -Mediated Methane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23631-23635.	7.2	10
17	Liquidlike Cu atom diffusion in weakly ionic compounds Cu_2S and Cu_2S . <i>Physical Review B</i> , 2020, 102, .	1.1	12
18	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. <i>Physical Review A</i> , 2020, 101, .	1.0	3

#	ARTICLE	IF	CITATIONS
19	Infrared Spectroscopy of Gas-Phase Mn_xO_y (CO_2) z Complexes. Journal of Physical Chemistry A, 2020, 124, 1561-1566.	1.1	13
20	Energetic Stabilization of Carboxylic Acid Conformers by Manganese Atoms and Clusters. Journal of Physical Chemistry A, 2020, 124, 4990-4997.	1.1	3
21	Carbid-Dihydride: kohlenstoffhaltige Spezies identifiziert in der Ta 4 + -vermittelten Methandehydrierung. Angewandte Chemie, 2020, 132, 23838-23842.	1.6	2
22	Anyon optics with time-of-flight two-particle interference of double-well-trapped interacting ultracold atoms. Physical Review A, 2019, 100, .	1.0	5
23	Co-adsorption of O_2 and C_2H_4 on a Free Gold Dimer Probed via Infrared Photodissociation Spectroscopy. Journal of the American Society for Mass Spectrometry, 2019, 30, 1895-1905.	1.2	6
24	Third-order momentum correlation interferometry maps for entangled quantal states of three singly trapped massive ultracold fermions. Physical Review A, 2019, 100, .	1.0	4
25	A Gas-Phase $Ca_nMn_4^{++}O_4^{+}$ Cluster Model for the Oxygen-Evolving Complex of Photosystem II. Angewandte Chemie, 2019, 131, 8592-8597.	1.6	9
26	A Gas-Phase $Ca_nMn_4^{++}O_4^{+}$ Cluster Model for the Oxygen-Evolving Complex of Photosystem II. Angewandte Chemie - International Edition, 2019, 58, 8504-8509.	7.2	10
27	Methanol C=O Bond Activation by Free Gold Clusters Probed via Infrared Photodissociation Spectroscopy. Zeitschrift Fur Physikalische Chemie, 2019, 233, 865-880.	1.4	3
28	Interference, spectral momentum correlations, entanglement, and Bell inequality for a trapped interacting ultracold atomic dimer: Analogies with biphoton interferometry. Physical Review A, 2019, 99, .	1.0	7
29	Oxygen Sensitivity of Free Nonligated Iron-Sulfur Clusters. Journal of Physical Chemistry C, 2019, 123, 27681-27689.	1.5	2
30	Infrared photodissociation spectroscopy of di-manganese oxide cluster cations. Physical Chemistry Chemical Physics, 2019, 21, 23922-23930.	1.3	8
31	Selective C H bond activation of ethane by free gold clusters. International Journal of Mass Spectrometry, 2019, 435, 241-250.	0.7	9
32	Thermal stability of iron-sulfur clusters. Physical Chemistry Chemical Physics, 2018, 20, 7781-7790.	1.3	8
33	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, .	1.0	13
34	Chemistry and Structure of Silver Molecular Nanoparticles. Accounts of Chemical Research, 2018, 51, 3104-3113.	7.6	123
35	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.	0.7	12
36	Thermal Dehydrogenation of Methane Enhanced by $1/2$ -Oxo Ligands in Tantalum Cluster Cations $[Ta_xO]^+$, $x = 4, 5$. Journal of Physical Chemistry C, 2018, 122, 25628-25637.	1.5	16

#	ARTICLE	IF	CITATIONS
37	Synthetic and Postsynthetic Chemistry of $M_{4-x}Au_xAg_{44}(\text{p-MBA})_{30}$ Alloy Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13166-13174.	1.5	22
38	$M_4Au_{12}Ag_{32}(\text{p-MBA})_{30}$ ($M = \text{Na}$). <i>Crystallographic Communications</i> , 2018, 74, 987-993.	0.2	6
39	Ethene to Graphene: Surface Catalyzed Chemical Pathways, Intermediates, and Assembly. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9413-9423.	1.5	29
40	Bottom-up configuration-interaction emulations of ultracold fermions in entangled optical plaquettes: Building blocks of unconventional superconductivity. <i>Physical Review A</i> , 2017, 95, .	1.0	3
41	Trial wave functions for ring-trapped ions and neutral atoms: Microscopic description of the quantum space-time crystal. <i>Physical Review A</i> , 2017, 96, .	1.0	2
42	Can Support Acidity Predict Sub-Nanometer Catalyst Activity Trends?. <i>ACS Catalysis</i> , 2017, 7, 6738-6744.	5.5	24
43	Selective C-H Bond Cleavage in Methane by Small Gold Clusters. <i>Angewandte Chemie</i> , 2017, 129, 13591-13595.	1.6	31
44	Two-point momentum correlations of few ultracold quasi-one-dimensional trapped fermions: Diffraction patterns. <i>Physical Review A</i> , 2017, 96, .	1.0	14
45	Selective C-H Bond Cleavage in Methane by Small Gold Clusters. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13406-13410.	7.2	71
46	Ultracold few fermionic atoms in needle-shaped double wells: spin chains and resonating spin clusters from microscopic Hamiltonians emulated via antiferromagnetic Heisenberg and t - J models. <i>New Journal of Physics</i> , 2016, 18, 073018.	1.2	22
47	Cluster size and composition dependent water deprotonation by free manganese oxide clusters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15727-15737.	1.3	30
48	Confirmation of a de novo structure prediction for an atomically precise monolayer-coated silver nanoparticle. <i>Science Advances</i> , 2016, 2, e1601609.	4.7	39
49	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
50	Controlling Ethylene Hydrogenation Reactivity on Pt_{13} Clusters by Varying the Stoichiometry of the Amorphous Silica Support. <i>Angewandte Chemie</i> , 2016, 128, 9099-9103.	1.6	1
51	Assessing the concept of structure sensitivity or insensitivity for sub-nanometer catalyst materials. <i>Surface Science</i> , 2016, 652, 7-19.	0.8	36
52	Interaction of Iron-Sulfur Clusters with N_2 : Biomimetic Systems in the Gas Phase. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12549-12558.	1.5	30
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	The Interaction of Water with Free $Mn_4O_4^{+}$ Clusters: Deprotonation and Adsorption-Induced Structural Transformations. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15113-15117.	7.2	24
56	M_4Ag_{44} (p-MBA) $_{30}$ Molecular Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11238-11249.	1.5	37
57	Transport, Aharonov-Bohm, and Topological Effects in Graphene Molecular Junctions and Graphene Nanorings. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11131-11142.	1.5	13
58	Water Deprotonation via Oxo-Bridge Hydroxylation and ^{18}O -Exchange in Free Tetra-Manganese Oxide Clusters. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10881-10887.	1.5	22
59	Dynamic fluxionality and enhanced CO adsorption in the presence of coadsorbed H ₂ O on free gold cluster cations. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 393-402.	0.7	16
60	Interplay of relativistic and nonrelativistic transport in atomically precise segmented graphene nanoribbons. <i>Scientific Reports</i> , 2015, 5, 7893.	1.6	5
61	Low-Temperature CO Oxidation Catalyzed by Free Palladium Clusters: Similarities and Differences to Pd Surfaces and Supported Particles. <i>ACS Catalysis</i> , 2015, 5, 2275-2289.	5.5	47
62	M_3Ag_{17} (SPh) $_{12}$ Nanoparticles and Their Structure Prediction. <i>Journal of the American Chemical Society</i> , 2015, 137, 11550-11553.	6.6	33
63	Double-Well Ultracold-Fermions Computational Microscopy: Wave-Function Anatomy of Attractive-Pairing and Wigner-Molecule Entanglement and Natural Orbitals. <i>Nano Letters</i> , 2015, 15, 7105-7111.	4.5	23
64	Hydrogen-bonded structure and mechanical chiral response of a silver nanoparticle superlattice. <i>Nature Materials</i> , 2014, 13, 807-811.	13.3	128
65	Beyond the constant-mass Dirac physics: Solitons, charge fractionization, and the emergence of topological insulators in graphene rings. <i>Physical Review B</i> , 2014, 89, .	1.1	13
66	Size-Dependent Self-Limiting Oxidation of Free Palladium Clusters. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8572-8582.	1.1	22
67	Topological effects and particle physics analogies beyond the massless Dirac-Weyl fermion in graphene nanorings. <i>Physical Review B</i> , 2013, 87, .	1.1	14
68	Au_{67} (SR) $_{35}$ Nanomolecules: Characteristic Size-Specific Optical, Electrochemical, Structural Properties and First-Principles Theoretical Analysis. <i>Journal of Physical Chemistry A</i> , 2013, 117, 504-517.	1.1	140
69	Atomically Precise Silver Clusters as New SERS Substrates. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2769-2773.	2.1	40
70	Ultrastable silver nanoparticles. <i>Nature</i> , 2013, 501, 399-402.	13.7	1,023
71	High-Frequency Mechanical Stirring Initiates Anisotropic Growth of Seeds Requisite for Synthesis of Asymmetric Metallic Nanoparticles like Silver Nanorods. <i>Nano Letters</i> , 2013, 13, 4739-4745.	4.5	38
72	Fundamental Insight into the Substrate-Dependent Ripening of Monodisperse Clusters. <i>ChemCatChem</i> , 2013, 5, 3330-3341.	1.8	52

#	ARTICLE	IF	CITATIONS
73	Oxidative Thymine Mutation in DNA: Water-Wire-Mediated Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2013, 135, 3904-3914.	6.6	31
74	STEM Electron Diffraction and High-Resolution Images Used in the Determination of the Crystal Structure of the Au ₁₄₄ (SR) ₆₀ Cluster. Journal of Physical Chemistry Letters, 2013, 4, 975-981.	2.1	122
75	Dimensionality Dependent Water Splitting Mechanisms on Free Manganese Oxide Clusters. Nano Letters, 2013, 13, 5549-5555.	4.5	38
76	Shell-Correction and Orbital-Free Density-Functional Methods for Finite Systems. Recent Advances in Computational, 2013, , 203-249.	0.8	3
77	Bare Clusters Derived from Protein Templates: Au ₂₅ ⁺ , Au ₃₈ ⁺ and Au ₁₀₂ ⁺ . ChemPhysChem, 2013, 14, 1272-1282.	1.0	23
78	Graphene flakes with defective edge terminations: Universal and topological aspects, and one-dimensional quantum behavior. Physical Review B, 2012, 86, .	1.1	6
79	Total Structure and Electronic Properties of the Gold Nanocrystal Au ₃₆ (SR) ₂₄ . Angewandte Chemie - International Edition, 2012, 51, 13114-13118.	7.2	519
80	Pd ₆ O ₄ ⁺ : An Oxidation Resistant yet Highly Catalytically Active Nano-oxide Cluster. Journal of the American Chemical Society, 2012, 134, 20654-20659.	6.6	36
81	Oxidation of Magnesia-Supported Pd ₃₀ Nanoclusters and Catalyzed CO Combustion: Size-Selected Experiments and First-Principles Theory. Journal of Physical Chemistry C, 2012, 116, 9594-9607.	1.5	40
82	Size-Selected Monodisperse Nanoclusters on Supported Graphene: Bonding, Isomerism, and Mobility. Nano Letters, 2012, 12, 5907-5912.	4.5	76
83	Oxidation State and Symmetry of Magnesia-Supported Pd ₁₃ O ₁₃ Nanocatalysts Influence Activation Barriers of CO Oxidation. Journal of the American Chemical Society, 2012, 134, 7690-7699.	6.6	43
84	The Superstable 25 kDa Monolayer Protected Silver Nanoparticle: Measurements and Interpretation as an Icosahedral Ag ₁₅₂ (SCH ₂ CH ₂ Ph) ₆₀ Cluster. Nano Letters, 2012, 12, 5861-5866.	4.5	121
85	Patterns of the Aharonov-Bohm oscillations in graphene nanorings. Physical Review B, 2012, 85, .	1.1	20
86	Dielectric Nanodroplets: Structure, Stability, Thermodynamics, Shape Transitions and Electrocrystallization in Applied Electric Fields. Journal of Physical Chemistry C, 2011, 115, 20343-20358.	1.5	26
87	Temperature-Tunable Selective Methane Catalysis on Au ₂ ⁺ : From Cryogenic Partial Oxidation Yielding Formaldehyde to Cold Ethylene Production. Journal of Physical Chemistry C, 2011, 115, 6788-6795.	1.5	57
88	Dielectron Attachment and Hydrogen Evolution Reaction in Water Clusters. Journal of Physical Chemistry A, 2011, 115, 7378-7391.	1.1	37
89	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, .	1.1	22
90	Unified microscopic approach to the interplay of pinned-Wigner-solid and liquid behavior of the lowest Landau-level states in the neighborhood of $\nu = 1/2$. Physical Review B, 2011, 84, .	1.1	16

#	ARTICLE	IF	CITATIONS
91	Size-Dependent Binding Energies of Methane to Small Gold Clusters. ChemPhysChem, 2010, 11, 1570-1577.	1.0	40
92	Titelbild: Methanaktivierung und katalytische Ethylenbildung an freiem Au ²⁺ (Angew. Chem. 5/2010). Angewandte Chemie, 2010, 122, 833-833.	1.6	0
93	Methane Activation and Catalytic Ethylene Formation on Free Au ₂ ⁺ . Angewandte Chemie - International Edition, 2010, 49, 980-983.	7.2	137
94	Cover Picture: Methane Activation and Catalytic Ethylene Formation on Free Au ²⁺ (Angew. Chem. Int.)	7.2	0
95	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.	0.7	3
96	Quantal molecular description and universal aspects of the spectra of bosons and fermions in the lowest Landau level. Physical Review A, 2010, 81, .	1.0	9
97	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, .	1.1	7
98	Oxidation of DNA: Damage to Nucleobases. Accounts of Chemical Research, 2010, 43, 280-287.	7.6	300
99	Edge states in graphene quantum dots: Fractional quantum Hall effect analogies and differences at zero magnetic field. Physical Review B, 2009, 79, .	1.1	24
100	Artificial quantum-dot helium molecules: Electronic spectra, spin structures, and Heisenberg clusters. Physical Review B, 2009, 80, .	1.1	16
101	Control and Manipulation of Gold Nanocatalysis: Effects of Metal Oxide Support Thickness and Composition. Journal of the American Chemical Society, 2009, 131, 538-548.	6.6	203
102	Hydrogen-Promoted Oxygen Activation by Free Gold Cluster Cations. Journal of the American Chemical Society, 2009, 131, 8939-8951.	6.6	113
103	Nanojets, Electrospray, and Ion Field Evaporation: Molecular Dynamics Simulations and Laboratory Experiments. Journal of Physical Chemistry A, 2008, 112, 9628-9649.	1.1	91
104	Electric Field Control of Structure, Dimensionality, and Reactivity of Gold Nanoclusters on Metal-Supported MgO Films. Physical Review Letters, 2008, 100, 056102.	2.9	58
105	Bonding, Conductance, and Magnetization of Oxygenated Au Nanowires. Physical Review Letters, 2008, 100, 046801.	2.9	31
106	Thermal bending of nanojets: Molecular dynamics simulations of an asymmetrically heated nozzle. Applied Physics Letters, 2008, 93, .	1.5	15
107	Nonuniversal Transmission Phase Lapses through a Quantum Dot: An Exact Diagonalization of the Many-Body Transport Problem. Physical Review Letters, 2008, 101, 136803.	2.9	21
108	Giant magnetization of a superconductor-two-dimensional electron gas-superconductor structure. Low Temperature Physics, 2008, 34, 868-874.	0.2	0

#	ARTICLE	IF	CITATIONS
109	QUANTUM DOTS BASED ON PARABOLIC QUANTUM WELLS: IMPORTANCE OF ELECTRONIC CORRELATIONS. International Journal of Modern Physics B, 2007, 21, 1316-1325.	1.0	7
110	Rapidly rotating boson molecules with long- or short-range repulsion: An exact diagonalization study. Physical Review A, 2007, 75, .	1.0	25
111	Atomic Dimer Shuttling and Two-Level Conductance Fluctuations in Nb Nanowires. Physical Review Letters, 2007, 98, 046802.	2.9	27
112	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.	8.1	198
113	Chemical and Catalytic Properties of Size-Selected Free and Supported Clusters. Nanoscience and Technology, 2007, , 1-191.	1.5	32
114	Steric Effects on Water Accessibility Control Sequence-Selectivity of Radical Cation Reactions in DNA. Journal of the American Chemical Society, 2007, 129, 8408-8409.	6.6	18
115	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.	6.6	167
116	Three-electron anisotropic quantum dots in variable magnetic fields: Exact results for excitation spectra, spin structures, and entanglement. Physical Review B, 2007, 76, .	1.1	32
117	Size-Dependent Structural Evolution and Chemical Reactivity of Gold Clusters. ChemPhysChem, 2007, 8, 157-161.	1.0	197
118	Structural and transport properties of Nb nanowires. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1712-1720.	0.8	1
119	Alternating current Josephson effect and resonant superconducting transport through vibrating Nb nanowires. Nature Nanotechnology, 2007, 2, 481-485.	15.6	11
120	Factors in gold nanocatalysis: oxidation of CO in the non-scalable size regime. Topics in Catalysis, 2007, 44, 145-158.	1.3	190
121	Oxidative Damage to DNA: A Counterion-Assisted Addition of Water to Ionized DNA. Journal of the American Chemical Society, 2006, 128, 10795-10800.	6.6	34
122	Oxidation of small gas phase Pd clusters: A density functional study. Computational Materials Science, 2006, 35, 371-374.	1.4	26
123	Structural evolution of Au nanoclusters: From planar to cage to tubular motifs. Physical Review B, 2006, 74, .	1.1	234
124	Symmetry breaking and Wigner molecules in few-electron quantum dots. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1160-1171.	0.8	11
125	CO Combustion on Supported Gold Clusters. ChemPhysChem, 2006, 7, 1871-1879.	1.0	121
126	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.	3.3	17

#	ARTICLE	IF	CITATIONS
127	Bosonic Molecules in Rotating Traps. <i>Physical Review Letters</i> , 2006, 97, 090401.	2.9	18
128	Bonding Trends and Dimensionality Crossover of Gold Nanoclusters on Metal-Supported MgO Thin Films. <i>Physical Review Letters</i> , 2006, 97, 036106.	2.9	268
129	From a few to many electrons in quantum dots under strong magnetic fields: Properties of rotating electron molecules with multiple rings. <i>Physical Review B</i> , 2006, 73, .	1.1	22
130	Materials by numbers: Computations as tools of discovery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6671-6678.	3.3	53
131	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
132	Water-Enhanced Catalysis of CO Oxidation on Free and Supported Gold Nanoclusters. <i>Physical Review Letters</i> , 2005, 95, 106102.	2.9	211
133	Unified description of floppy and rigid rotating Wigner molecules formed in quantum dots. <i>Physical Review B</i> , 2004, 69, .	1.1	29
134	Structural properties of electrons in quantum dots in high magnetic fields: Crystalline character of cusp states and excitation spectra. <i>Physical Review B</i> , 2004, 70, .	1.1	38
135	Crystalline Boson Phases in Harmonic Traps: Beyond the Gross-Pitaevskii Mean Field. <i>Physical Review Letters</i> , 2004, 93, 230405.	2.9	44
136	Phase-Controlled Force and Magnetization Oscillations in Superconducting Ballistic Nanowires. <i>Physical Review Letters</i> , 2004, 92, 126802.	2.9	5
137	Small is different: energetic, structural, thermal, and mechanical properties of passivated nanocluster assemblies. <i>Faraday Discussions</i> , 2004, 125, 1.	1.6	239
138	Hydrogen Welding and Hydrogen Switches in a Monatomic Gold Nanowire. <i>Nano Letters</i> , 2004, 4, 1845-1852.	4.5	66
139	Frictional Forces and Amontons' Law: From the Molecular to the Macroscopic Scale. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3410-3425.	1.2	455
140	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
141	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
142	On the Electronic and Atomic Structures of Small Au _N - (N = 4~14) Clusters: A Photoelectron Spectroscopy and Density-Functional Study. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6168-6175.	1.1	598
143	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
144	Intercalation of Trioxatriangulenium Ion in DNA: Binding, Electron Transfer, X-ray Crystallography, and Electronic Structure. <i>Journal of the American Chemical Society</i> , 2003, 125, 2072-2083.	6.6	72

#	ARTICLE	IF	CITATIONS
145	Effect of Base Sequence and Hydration on the Electronic and Hole Transport Properties of Duplex DNA: A Theory and Experiment. Journal of Physical Chemistry A, 2003, 107, 3525-3537.	1.1	58
146	Group theoretical analysis of symmetry breaking in two-dimensional quantum dots. Physical Review B, 2003, 68, .	1.1	48
147	Interaction of O ₂ with Gold Clusters: Molecular and Dissociative Adsorption. Journal of Physical Chemistry A, 2003, 107, 4066-4071.	1.1	349
148	Diffusion of Gold Clusters on Defective Graphite Surfaces. Journal of Physical Chemistry B, 2003, 107, 5882-5891.	1.2	42
149	Two-dimensional quantum dots in high magnetic fields: Rotating-electron-molecule versus composite-fermion approach. Physical Review B, 2003, 68, .	1.1	77
150	Spin-guide source for the generation of highly spin-polarized currents. Physical Review B, 2003, 68, .	1.1	14
151	A magnetic-field-effect transistor and spin transport. Applied Physics Letters, 2003, 83, 4577-4579.	1.5	10
152	Influence of electron-electron scattering on spin-polarized current states in magnetically wrapped nanowires. Low Temperature Physics, 2003, 29, 606-608.	0.2	2
153	Thermal Quenching of Electronic Shells and Channel Competition in Cluster Fission. Physical Review Letters, 2002, 89, 173403.	2.9	11
154	Structure, collective hydrogen transfer, and formation of Si(OH) ₄ in SiO ₂ ·(H ₂ O) _n clusters. Journal of Chemical Physics, 2002, 116, 9300-9304.	1.2	41
155	Trial wave functions with long-range Coulomb correlations for two-dimensional N-electron systems in high magnetic fields. Physical Review B, 2002, 66, .	1.1	67
156	Thermopower of an infinite Luttinger liquid. Physical Review B, 2002, 65, .	1.1	15
157	Strongly correlated wavefunctions for artificial atoms and molecules. Journal of Physics Condensed Matter, 2002, 14, L591-L598.	0.7	37
158	Instability Driven Fragmentation of Nanoscale Fractal Islands. Physical Review Letters, 2002, 88, 196103.	2.9	94
159	Bonding in Cu, Ag, and Au Clusters: Relativistic Effects, Trends, and Surprises. Physical Review Letters, 2002, 89, 033401.	2.9	611
160	Magnetic-field manipulation of chemical bonding in artificial molecules. International Journal of Quantum Chemistry, 2002, 90, 699-708.	1.0	32
161	Gas-Phase Catalytic Oxidation of CO by Au ₂ . Journal of the American Chemical Society, 2001, 123, 9704-9705.	6.6	230
162	Thermoelectric effects in a Luttinger liquid. Low Temperature Physics, 2001, 27, 821-830.	0.2	14

#	ARTICLE	IF	CITATIONS
163	Charge Migration in DNA: Ion-Gated Transport. <i>Science</i> , 2001, 294, 567-571.	6.0	373
164	Structure and Magnetism of Neutral and Anionic Palladium Clusters. <i>Physical Review Letters</i> , 2001, 86, 2545-2548.	2.9	198
165	Photoabsorption Spectra of Nan ⁺ Clusters: Thermal Line-Broadening Mechanisms. <i>Physical Review Letters</i> , 2001, 87, 053401.	2.9	48
166	Multiply Charged Metal Cluster Anions. <i>Physical Review Letters</i> , 2001, 86, 2996-2999.	2.9	64
167	Interaction enhanced thermopower in a Luttinger liquid. <i>Physical Review B</i> , 2001, 63, .	1.1	13
168	Heat current fluctuations in quantum wires. <i>Physical Review B</i> , 2001, 64, .	1.1	19
169	Structures, solvation forces and shear of molecular films in a rough nano-confinement. <i>Tribology Letters</i> , 2000, 9, 3-13.	1.2	136
170	Magnetocohesion of nanowires. <i>Physical Review B</i> , 2000, 62, 10467-10473.	1.1	4
171	Aluminum cluster anions: Photoelectron spectroscopy and ab initio simulations. <i>Physical Review B</i> , 2000, 62, 13216-13228.	1.1	111
172	Decay channels and appearance sizes of doubly anionic gold and silver clusters. <i>Physical Review B</i> , 2000, 61, R10587-R10589.	1.1	19
173	Collective and Independent-Particle Motion in Two-Electron Artificial Atoms. <i>Physical Review Letters</i> , 2000, 85, 1726-1729.	2.9	119
174	Formation and control of electron molecules in artificial atoms: Impurity and magnetic-field effects. <i>Physical Review B</i> , 2000, 61, 15895-15904.	1.1	52
175	Formation, Stability, and Breakup of Nanojets. <i>Science</i> , 2000, 289, 1165-1169.	6.0	344
176	Metal-Semiconductor Nanocontacts: Silicon Nanowires. <i>Physical Review Letters</i> , 2000, 85, 1958-1961.	2.9	188
177	Gold clusters (Au _N , 2 < N < 10) and their anions. <i>Physical Review B</i> , 2000, 62, R2287-R2290.	1.1	454
178	Nanowire Gold Chains: Formation Mechanisms and Conductance. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9063-9066.	1.2	106
179	Photoelectron spectra of aluminum cluster anions: Temperature effects and ab initio simulations. <i>Physical Review B</i> , 1999, 60, R11297-R11300.	1.1	289
180	Spontaneous Symmetry Breaking in Single and Molecular Quantum Dots. <i>Physical Review Letters</i> , 1999, 82, 5325-5328.	2.9	224

#	ARTICLE	IF	CITATIONS
181	Nonlinear Peltier effect and thermoconductance in nanowires. <i>Physical Review B</i> , 1999, 60, 11678-11682.	1.1	34
182	Melting of gold clusters. <i>Physical Review B</i> , 1999, 60, 5065-5077.	1.1	242
183	Slip Diffusion and Lévy Flights of an Adsorbed Gold Nanocluster. <i>Physical Review Letters</i> , 1999, 82, 3835-3838.	2.9	229
184	Gold Nanowires and Their Chemical Modifications. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8814-8816.	1.2	135
185	When Gold Is Not Noble: Nanoscale Gold Catalysts. <i>Journal of Physical Chemistry A</i> , 1999, 103, 9573-9578.	1.1	1,375
186	On nanotribological interactions: Hard and soft interfacial junctions. <i>Solid State Communications</i> , 1998, 107, 693-708.	0.9	28
187	Nonlinear peltier effect in quantum point contacts. <i>Solid State Communications</i> , 1998, 108, 851-855.	0.9	18
188	Genetic Algorithms for Structural Cluster Optimization. <i>Journal of Physical Chemistry A</i> , 1998, 102, 6129-6137.	1.1	94
189	Friction Control in Thin-Film Lubrication. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5033-5037.	1.2	129
190	Molecular Dynamics in Shape Space and Femtosecond Vibrational Spectroscopy of Metal Clusters. <i>Journal of Physical Chemistry A</i> , 1998, 102, 2505-2508.	1.1	68
191	Melting of Gold Clusters: Icosahedral Precursors. <i>Physical Review Letters</i> , 1998, 81, 2036-2039.	2.9	199
192	Structure and Thermodynamics of Self-Assembled Monolayers on Gold Nanocrystallites. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6566-6572.	1.2	231
193	Noise in three-dimensional nanowires. <i>Physical Review B</i> , 1998, 57, 6654-6661.	1.1	17
194	Magneto-optics of electronic transport in nanowires. <i>Physical Review B</i> , 1998, 58, 16305-16314.	1.1	22
195	Energetics, forces, and quantized conductance in jellium-modeled metallic nanowires. <i>Physical Review B</i> , 1998, 57, 4872-4882.	1.1	59
196	Electronic Entropy, Shell Structure, and Size-Evolutionary Patterns of Metal Clusters. <i>Physical Review Letters</i> , 1997, 78, 1424-1427.	2.9	49
197	Structural Evolution of Smaller Gold Nanocrystals: The Truncated Decahedral Motif. <i>Physical Review Letters</i> , 1997, 79, 1873-1876.	2.9	460
198	Shape effects on conductance quantization in three-dimensional nanowires: Hard versus soft potentials. <i>Physical Review B</i> , 1997, 56, 1065-1068.	1.1	26

#	ARTICLE	IF	CITATIONS
199	Energetics and structures of neutral and charged Si_n and sodium-doped Si_nNa clusters. <i>Physical Review B</i> , 1997, 55, 7935-7944.	1.1	66
200	Nonlinear magnetoconductance of nanowires. <i>Physical Review B</i> , 1997, 56, 14917-14920.	1.1	19
201	Electronic energy spectra in antiferromagnetic media with broken reciprocity. <i>Physical Review B</i> , 1997, 55, 12566-12571.	1.1	17
202	Comment on "Density functional theory study of some structural and energetic properties of small lithium clusters". <i>J. Chem. Phys.</i> 105, 9933 (1996). <i>Journal of Chemical Physics</i> , 1997, 107, 1032-1033.	1.2	11
203	On Mesoscopic Forces and Quantized Conductance in Model Metallic Nanowires. <i>Journal of Physical Chemistry B</i> , 1997, 101, 5780-5783.	1.2	55
204	Structure and Binding of Neutral and Charged $\text{Si}_n\text{H}_2\text{O}$ ($n = 1, 2, 7$) Clusters. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5035-5037.	1.1	0
205	Origins of Solvation Forces in Confined Films. <i>Journal of Physical Chemistry B</i> , 1997, 101, 4013-4023.	1.2	125
206	Structure and Energetics of Ionized Water Clusters: $(\text{H}_2\text{O})_n^+$, $n = 2-5$. <i>Journal of Physical Chemistry A</i> , 1997, 101, 164-169.	1.1	73
207	Structure and solvation forces in confined films: Linear and branched alkanes. <i>Journal of Chemical Physics</i> , 1997, 106, 4309-4318.	1.2	202
208	Layering Transitions and Dynamics of Confined Liquid Films. <i>Physical Review Letters</i> , 1997, 79, 705-708.	2.9	303
209	Cluster-derived structures and conductance fluctuations in nanowires. <i>Nature</i> , 1997, 387, 788-791.	13.7	131
210	Nanowires: size evolution, reversibility, and one-atom contacts. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1997, 40, 282-287.	1.0	11
211	Structure, Dynamics, and Thermodynamics of Passivated Gold Nanocrystallites and Their Assemblies. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13323-13329.	2.9	410
212	Atomic-Scale Issues in Tribology: Interfacial Junctions and Nano-elastohydrodynamics. <i>Langmuir</i> , 1996, 12, 4514-4528.	1.6	141
213	Reversible Manipulations of Room Temperature Mechanical and Quantum Transport Properties in Nanowire Junctions. <i>Physical Review Letters</i> , 1996, 77, 1362-1365.	2.9	219
214	Nanocrystal gold molecules. <i>Advanced Materials</i> , 1996, 8, 428-433.	11.1	1,179
215	Atomistic dynamics of interfacial processes: films, junctions and nanostructures. <i>Applied Surface Science</i> , 1996, 92, 237-256.	3.1	18
216	Shapes of He_3 clusters. <i>Physical Review B</i> , 1996, 54, 7690-7693.	1.1	14

#	ARTICLE	IF	CITATIONS
217	Quantum electronic transport through three-dimensional microconstrictions with variable shapes. <i>Physical Review B</i> , 1996, 53, 4054-4064.	1.1	92
218	Collective excitations of multishell carbon microstructures: Multishell fullerenes and coaxial nanotubes. <i>Physical Review B</i> , 1996, 53, 10225-10236.	1.1	113
219	Shell structure and shapes of fermion microsystems: A comparative study of 3He and Na clusters. <i>Journal of Chemical Physics</i> , 1996, 105, 8734-8740.	1.2	7
220	Thermopower of quantum nanowires in a magnetic field. <i>Physical Review B</i> , 1996, 54, R11094-R11097.	1.1	27
221	Magnetic switching and thermal enhancement of quantum transport through nanowires. <i>Physical Review B</i> , 1996, 53, R13246-R13249.	1.1	29
222	Water Adsorption and Reactions on Small Sodium Chloride Clusters. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13950-13958.	2.9	34
223	Nanocrystal Gold Molecules. , 1996, , 475-490.		8
224	Energetics, structure and excess electrons in small sodium-chloride clusters. <i>Chemical Physics Letters</i> , 1995, 232, 79-89.	1.2	29
225	All-quantum simulations: H ₃ O ⁺ and H ₅ O ₂ ⁺ . <i>Chemical Physics Letters</i> , 1995, 237, 161-170.	1.2	78
226	Quantum mechanical simulations of water and ammonia molecules and their clusters. <i>International Journal of Quantum Chemistry</i> , 1995, 56, 615-620.	1.0	13
227	Nanotribology: friction, wear and lubrication at the atomic scale. <i>Nature</i> , 1995, 374, 607-616.	13.7	1,514
228	Equilibrium interphase interfaces and premelting of the Pb(110) surface. <i>Physical Review B</i> , 1995, 51, 10972-10980.	1.1	26
229	Edge states, Aharonov-Bohm oscillations, and thermodynamic and spectral properties in a two-dimensional electron gas with an antidot. <i>Physical Review B</i> , 1995, 52, 14067-14077.	1.1	73
230	Electrical and mechanical properties of metallic nanowires: Conductance quantization and localization. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1995, 13, 1280.	1.6	30
231	Barriers and Deformation in Fission of Charged Metal Clusters. <i>The Journal of Physical Chemistry</i> , 1995, 99, 14577-14581.	2.9	20
232	Electronic shell effects in triaxially deformed metal clusters: A systematic interpretation of experimental observations. <i>Physical Review B</i> , 1995, 51, 1902-1917.	1.1	125
233	Stability and Collapse of Metallic Structures on Surfaces. <i>Physical Review Letters</i> , 1994, 73, 569-572.	2.9	48
234	Molecular evaporation and condensation of liquid n-alkane films. <i>Journal of Chemical Physics</i> , 1994, 101, 2498-2507.	1.2	25

#	ARTICLE	IF	CITATIONS
235	Aharonov-Bohm and Aharonov-Casher tunneling effects and edge states in double-barrier structures. Physical Review B, 1994, 50, 2678-2680.	1.1	9
236	Controlled Deposition and Classification of Copper Nanoclusters. The Journal of Physical Chemistry, 1994, 98, 3527-3537.	2.9	110
237	Dynamics and energy release in fission of small doubly charged clusters. Physical Review Letters, 1994, 72, 1636-1639.	2.9	87
238	Stabilized-jellium description of neutral and multiply charged fullerenes $C_x\hat{A}\pm 60$. Chemical Physics Letters, 1994, 217, 175-185.	1.2	123
239	Dimensionality crossovers of the $\tilde{\Gamma}_f$ plasmon in coaxial carbon nanotubes. Physical Review B, 1994, 50, 7977-7980.	1.1	45
240	On some issues in computational materials science. Computational Materials Science, 1994, 2, 209-211.	1.4	0
241	Multiply charged anionic metal clusters. Chemical Physics Letters, 1993, 210, 437-442.	1.2	51
242	Materials by numbers. Physica D: Nonlinear Phenomena, 1993, 66, 87-107.	1.3	3
243	Small can be different. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1993, 26, 119-125.	1.0	6
244	Energetics of aluminum-lithium clusters. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1993, 26, 296-300.	1.0	1
245	Born-Oppenheimer molecular-dynamics simulations of finite systems: Structure and dynamics of $(H_2O)_2$. Physical Review B, 1993, 48, 2081-2097.	1.1	551
246	Nanotribology and the Stability of Nanostructures. Japanese Journal of Applied Physics, 1993, 32, 1444-1462.	0.8	56
247	Superheating, melting, and annealing of copper surfaces. Physical Review Letters, 1993, 71, 1023-1026.	2.9	103
248	Structure and dynamics of surface crystallization of liquidn-alkanes. Physical Review B, 1993, 48, 11313-11316.	1.1	54
249	Hydration of sodium in water clusters. Physical Review Letters, 1993, 70, 1775-1778.	2.9	134
250	Shell-correction method for calculating the binding energy of metal clusters: Application to multiply charged anions. Physical Review B, 1993, 48, 8376-8387.	1.1	72
251	Energetics and structures of aluminum-lithium clusters. Physical Review B, 1993, 48, 1820-1824.	1.1	67
252	Structure and dynamics of n-alkanes confined by solid surfaces. I. Stationary crystalline boundaries. Journal of Chemical Physics, 1992, 97, 1937-1949.	1.2	99

#	ARTICLE	IF	CITATIONS
253	Dielectrons in water clusters. <i>Journal of Chemical Physics</i> , 1992, 97, 1365-1377.	1.2	43
254	Barnett and Landman reply. <i>Physical Review Letters</i> , 1992, 69, 1472-1472.	2.9	6
255	Interfacial alkane films. <i>Physical Review Letters</i> , 1992, 69, 1967-1970.	2.9	191
256	SMALL IS DIFFERENT. <i>International Journal of Modern Physics B</i> , 1992, 06, 3623-3642.	1.0	18
257	Solid and liquid junctions. <i>Computational Materials Science</i> , 1992, 1, 1-24.	1.4	55
258	Atomistic mechanisms of adhesive contact formation and interfacial processes. <i>Wear</i> , 1992, 153, 3-30.	1.5	164
259	The energetics and structure of nickel clusters: Size dependence. <i>Journal of Chemical Physics</i> , 1991, 94, 7376-7396.	1.2	359
260	Reactions in clusters. <i>Journal of Chemical Physics</i> , 1991, 95, 4997-5013.	1.2	26
261	Metallization of ionic clusters. <i>Physical Review Letters</i> , 1991, 67, 727-730.	2.9	104
262	Molecular-dynamics study of elasticity and failure of ideal solids. <i>Physical Review B</i> , 1991, 44, 378-381.	1.1	37
263	Bornâ€œOppenheimer dynamics using densityâ€functional theory: Equilibrium and fragmentation of small sodium clusters. <i>Journal of Chemical Physics</i> , 1991, 94, 608-616.	1.2	85
264	Quantum dynamical simulations of nonadiabatic processes: Solvation dynamics of the hydrated electron. <i>Physical Review Letters</i> , 1991, 67, 1011-1014.	2.9	101
265	Metal-on-metal thin-film growth: Au/Ni(001) and Ni/Au(001). <i>Physical Review B</i> , 1991, 44, 5970-5972.	1.1	71
266	Nanomechanics and dynamics of tipâ€substrate interactions. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1991, 9, 414.	1.6	134
267	Patterns and barriers for fission of charged small metal clusters. <i>Physical Review Letters</i> , 1991, 67, 3058-3061.	2.9	126
268	Surface premelting of Cu(110). <i>Physical Review B</i> , 1991, 44, 3226-3239.	1.1	106
269	Dynamics, Spectra, and Relaxation Phenomena of Excess Electrons in Clusters. <i>Israel Journal of Chemistry</i> , 1990, 30, 85-105.	1.0	22
270	Primary events following electron injection into water and adsorbed water layers. <i>Journal of Chemical Physics</i> , 1990, 93, 6535-6542.	1.2	24

#	ARTICLE	IF	CITATIONS
271	Optical spectra of localized excess electrons in alkali halide clusters. <i>Physical Review Letters</i> , 1990, 64, 2933-2936.	2.9	106
272	Surface melting of Ni(110). <i>Physical Review B</i> , 1990, 41, 439-450.	1.1	137
273	Excess electron transport in water. <i>Journal of Chemical Physics</i> , 1990, 93, 8187-8195.	1.2	35
274	Theoretical studies of the spectroscopy of excess electrons in water clusters. <i>Journal of Chemical Physics</i> , 1990, 93, 6226-6238.	1.2	55
275	Structural and dynamical consequences of interactions in interfacial systems. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989, 7, 2829-2839.	0.9	154
276	Crystal-melt and melt-vapor interfaces of nickel. <i>Physical Review B</i> , 1989, 40, 924-932.	1.1	75
277	Molecular-dynamics studies of the growth modes and structure of amorphous silicon films via atom deposition. <i>Physical Review B</i> , 1989, 40, 11733-11746.	1.1	52
278	Dynamics of excess electron migration, solvation, and spectra in polar molecular clusters. <i>Journal of Chemical Physics</i> , 1989, 91, 5567-5580.	1.2	60
279	Relaxation dynamics following transition of solvated electrons. <i>Journal of Chemical Physics</i> , 1989, 90, 4413-4422.	1.2	117
280	Quantum simulations and ab initio electronic structure studies of (H ₂ O) ⁺ . <i>Journal of Chemical Physics</i> , 1989, 91, 7797-7808.	1.2	59
281	Dynamics of Electron Localization, Solvation, and Migration in Polar Molecular Clusters. <i>Physical Review Letters</i> , 1989, 62, 106-109.	2.9	44
282	The onset of disorder in Al(110) surfaces below the melting point. <i>Surface Science Letters</i> , 1989, 220, L693-L700.	0.1	0
283	Dynamics of tip-substrate interactions in atomic force microscopy. <i>Surface Science Letters</i> , 1989, 210, L177-L184.	0.1	11
284	Energetics and structure of He ₄ droplets at a finite temperature. <i>Physical Review B</i> , 1989, 39, 117-123.	1.1	25
285	Surface and internal excess electron states in molecular clusters. <i>Accounts of Chemical Research</i> , 1989, 22, 350-357.	7.6	69
286	Preparation, structure, dynamics, and energetics of amorphous silicon: A molecular-dynamics study. <i>Physical Review B</i> , 1989, 40, 1164-1174.	1.1	192
287	Optical absorption spectra of (H ₂ O) _n . <i>Chemical Physics Letters</i> , 1988, 152, 353-357.	1.2	13
288	Size dependence of the energetics of electron attachment to large water clusters. <i>Chemical Physics Letters</i> , 1988, 145, 382-386.	1.2	97

#	ARTICLE	IF	CITATIONS
289	Excess electrons in ammonia clusters. <i>Chemical Physics Letters</i> , 1988, 148, 249-252.	1.2	51
290	Dynamical simulations of stress, strain, and finite deformations. <i>Physical Review B</i> , 1988, 38, 9522-9537.	1.1	44
291	Electron localization in water clusters. II. Surface and internal states. <i>Journal of Chemical Physics</i> , 1988, 88, 4429-4447.	1.2	251
292	Molecular-dynamics simulations of epitaxial crystal growth from the melt. II. Si(111). <i>Physical Review B</i> , 1988, 37, 4647-4655.	1.1	51
293	Molecular-dynamics simulations of epitaxial crystal growth from the melt. I. Si(100). <i>Physical Review B</i> , 1988, 37, 4637-4646.	1.1	77
294	Preparation and melting of amorphous silicon by molecular-dynamics simulations. <i>Physical Review B</i> , 1988, 37, 4656-4663.	1.1	186
295	Excited-state dynamics of rare-gas clusters. <i>Journal of Chemical Physics</i> , 1988, 88, 4273-4288.	1.2	84
296	Electron localization in water clusters. I. Electron-water pseudopotential. <i>Journal of Chemical Physics</i> , 1988, 88, 4421-4428.	1.2	158
297	Dynamics and excitations of a solvated electron in molecular clusters. <i>Physical Review A</i> , 1988, 38, 2178-2181.	1.0	25
298	Excess electrons in polar molecular clusters. <i>Journal of Chemical Physics</i> , 1988, 88, 6670-6671.	1.2	53
299	Dynamics and spectra of a solvated electron in water clusters. <i>Journal of Chemical Physics</i> , 1988, 89, 2242-2256.	1.2	106
300	Micromechanics and Microdynamics Via Atomistic Simulations. <i>Materials Research Society Symposia Proceedings</i> , 1988, 140, 101.	0.1	4
301	Energetics and dynamics of clusters. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1987, 56, 803-804.	0.6	1
302	Cluster isomerization induced by electron attachment. <i>Journal of Chemical Physics</i> , 1987, 87, 2716-2723.	1.2	67
303	Electron localization in clusters. <i>International Journal of Quantum Chemistry</i> , 1987, 32, 573-587.	1.0	6
304	Surface states of excess electrons on water clusters. <i>Physical Review Letters</i> , 1987, 59, 811-814.	2.9	122
305	Faceting at the silicon (100) crystal-melt interface: Theory and experiment. <i>Physical Review Letters</i> , 1986, 56, 155-158.	2.9	146
306	Atomic and molecular quantum mechanics by the path integral molecular dynamics method. <i>Chemical Physics Letters</i> , 1986, 130, 504-510.	1.2	15

#	ARTICLE	IF	CITATIONS
307	Vibrational predissociation induced by exciton trapping in inert-gas clusters. <i>Chemical Physics Letters</i> , 1986, 126, 495-500.	1.2	25
308	Formation of Facets at the Solid-Melt Interface in Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1985, 53, 21.	0.1	1
309	Microscopic Phenomena of Macroscopic Consequences: Interfaces, Glasses, and Small Aggregates. <i>Materials Research Society Symposia Proceedings</i> , 1985, 63, 273.	0.1	5
310	Molecular-orbital-self-consistent-field cluster model of H ₂ O adsorption on copper. <i>Physical Review B</i> , 1985, 32, 1430-1433.	1.1	91
311	New Molecular-Dynamics Method for Metallic Systems. <i>Physical Review Letters</i> , 1985, 54, 1679-1682.	2.9	24
312	Electron Localization in Alkali-Halide Clusters. <i>Physical Review Letters</i> , 1985, 54, 1860-1863.	2.9	162
313	Theoretical considerations of energetics, dynamics, and structure at interfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1985, 3, 1574-1587.	0.9	32
314	Structure and Dynamics of a Metallic Glass: Molecular-Dynamics Simulations. <i>Physical Review Letters</i> , 1985, 55, 2035-2038.	2.9	25
315	Variational solutions of simple quantum systems subject to variable boundary conditions. I. A model for physisorption. <i>Journal of Chemical Physics</i> , 1984, 80, 1691-1702.	1.2	7
316	Variational solutions of simple quantum systems subject to variable boundary conditions. II. Shallow donor impurities near semiconductor interfaces: Si, Ge. <i>Physical Review B</i> , 1984, 29, 4524-4533.	1.1	21
317	Hindered and modulated rotations of adsorbed diatomic molecules: States and spectra. <i>Physical Review B</i> , 1984, 29, 4313-4326.	1.1	22
318	Multilayer lattice relaxation at metal surfaces. <i>Physical Review B</i> , 1983, 27, 6534-6537.	1.1	73
319	Multilayer Relaxation of Interlayer Registry and Spacing at High-Index Metal Surfaces. <i>Physical Review Letters</i> , 1983, 51, 1359-1361.	2.9	53
320	Single-ion and pair-interaction potentials near simple metal surfaces. <i>Physical Review B</i> , 1983, 28, 1667-1684.	1.1	28
321	Multilayer lattice relaxation at metal surfaces: A total-energy minimization. <i>Physical Review B</i> , 1983, 28, 1685-1695.	1.1	96
322	Surface segregation in simple metal alloys: An electronic theory. <i>Physical Review B</i> , 1983, 28, 6647-6658.	1.1	16
323	Rotational Excitation within the Infinite Conical Well: Desorption of Diatomic Molecules. <i>Studies in Surface Science and Catalysis</i> , 1983, 14, 103-110.	1.5	0
324	Diffusion and segregation at surfaces and interfaces. <i>Physical Review B</i> , 1982, 25, 7255-7262.	1.1	2

#	ARTICLE	IF	CITATIONS
325	Infinite Conical Well: An Analytic Model for Quantum Mechanical Hindered Rotors. <i>Physical Review Letters</i> , 1982, 49, 426-430.	2.9	88
326	Molecular Dynamics of a Laser-Annealing Experiment. <i>Physical Review Letters</i> , 1982, 49, 790-793.	2.9	41
327	On Models of Interactive Dynamical Processes at Surfaces. <i>Israel Journal of Chemistry</i> , 1982, 22, 339-359.	1.0	14
328	Basic research needs and opportunities at the solid-gas interface. <i>Materials Science and Engineering</i> , 1982, 53, 113-124.	0.1	1
329	Microscopic theory of thermal desorption and dissociation processes catalyzed by a solid surface. <i>Physical Review B</i> , 1980, 21, 3256-3268.	1.1	40
330	Lattice relaxation at metal surfaces: An electrostatic model. <i>Physical Review B</i> , 1980, 21, 448-457.	1.1	148
331	Substrate effects on long-range order and scattering from low-dimensional systems. <i>Physical Review B</i> , 1980, 22, 1784-1788.	1.1	2
332	Epitaxial Crystallization from a Melt: A Surface Molecular-Dynamics Study. <i>Physical Review Letters</i> , 1980, 45, 2032-2035.	2.9	46
333	High-frequency vibrational modes at stepped Pt(111) surfaces. <i>Physical Review B</i> , 1979, 20, 1755-1757.	1.1	26
334	Stochastic theory of multistate diffusion in perfect and defective systems. II. Case studies. <i>Physical Review B</i> , 1979, 19, 6220-6237.	1.1	35
335	Stochastic theory of multistate diffusion in perfect and defective systems. I. Mathematical formalism. <i>Physical Review B</i> , 1979, 19, 6207-6219.	1.1	48
336	Diffusion processes in defective crystals and multistate diffusion. <i>Solid State Communications</i> , 1978, 27, 939-942.	0.9	12
337	Stochastic Theory of Bimolecular, Heterogeneous, Surface Catalytic Reactions. <i>Physical Review Letters</i> , 1978, 41, 1174-1178.	2.9	6
338	Further evaluation of the transform-deconvolution method for surface-structure determination by analysis of low-energy electron-diffraction intensities. <i>Physical Review B</i> , 1977, 15, 3775-3787.	1.1	43
339	Motion of Clusters on Surfaces. <i>Physical Review Letters</i> , 1977, 38, 285-289.	2.9	25
340	Cluster motion on surfaces: A stochastic model. <i>Physical Review B</i> , 1977, 16, 3389-3405.	1.1	32
341	Structural Variations and Multiple Charge Transfer Transitions between Chloranil and Carbazole Derivatives. <i>Macromolecules</i> , 1976, 9, 833-839.	2.2	39
342	Adsorption on heterogeneous surfaces. I. Evaluation of the energy distribution function via the Wiener and Hopf method. <i>Journal of Chemical Physics</i> , 1976, 64, 1762-1767.	1.2	43

#	ARTICLE	IF	CITATIONS
343	Model dielectric function for semiconductors: Si. Physical Review B, 1976, 14, 1597-1604.	1.1	9
344	Truncation, potential, and temperature effects in the transform ^â deconvolution method. Journal of Vacuum Science and Technology, 1975, 12, 260-262.	1.9	12
345	Local and nonlocal effects in the theory of physisorption. Journal of Vacuum Science and Technology, 1975, 12, 206-209.	1.9	10
346	Study of the transform-deconvolution method for surface structure determination. Surface Science, 1975, 51, 149-173.	0.8	15
347	Fourier transforms in surface structure determination from LEED. The transform-deconvolution method. Faraday Discussions of the Chemical Society, 1975, 60, 230.	2.2	5
348	Effect of Spatial Dispersion upon Physisorption Energies: He on Metals. Physical Review Letters, 1974, 33, 524-527.	2.9	56
349	Surface structure determination via a transform-deconvolution method. Journal of Vacuum Science and Technology, 1974, 11, 195-200.	1.9	37
350	Direct Transform-Deconvolution Method for Surface-Structure Determination. Physical Review Letters, 1974, 33, 585-589.	2.9	31
351	A Novel Transform-Deconvolution Method for Surface Structure Determination from LEED Intensities. Japanese Journal of Applied Physics, 1974, 13, A918B.	0.8	0
352	Theory of Physisorption: He on Metals. Physical Review B, 1973, 8, 5484-5495.	1.1	109
353	Prediction of Physisorption Interaction Energies: He on Metals. Physical Review Letters, 1973, 31, 707-710.	2.9	16
354	Perturbation Treatment of the Variable-Phase Method. Physical Review A, 1972, 5, 1-4.	1.0	4