Uzi Landman

List of Publications by Year
in descending order

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354	31,872	3325 91	4750 169
papers	citations	h-index	g-index

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

#	Article	IF	Citations
1	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.	1.5	3
2	Wigner molecules and hybrid qubits. Journal of Physics Condensed Matter, 2022, 34, 21LT01.	0.7	5
3	Molecular formations and spectra due to electron correlations in three-electron hybrid double-well qubits. Physical Review B, 2022, 105, .	1.1	8
4	Cluster Size Dependent Interaction of Free Manganese Oxide Clusters with Acetic Acid and Methyl Acetate. Journal of Physical Chemistry A, 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 Oxygenâ€“Oxygen Coupling. Journal of Physical Chemistry Letters, 2021, 12, 5248-5255.	2.1	5
6	Room-Temperature Methane Activation Mediated by Free Tantalum Cluster Cations: Size-by-Size Reactivity. Journal of Physical Chemistry A, 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. Physical Review Research, 2021, 3, .	1.3	4
8	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, .	0.9	4
9	Nanomolecular Metallurgy: Transformation from Au₁₄₄(SCH₂CH₂Ph)₆₀ to Au₂₇₉(SPh-tBu)₈₄. Journal of Physical Chemistry C, 2021, 125, 20488-20502.	1.5	4
10	Structure Relaxation and Liquidlike Enhanced Cu Diffusion at the Surface of Î²-Cu₂S Chalcocite. Nano Letters, 2021, 21, 8895-8900.	4.5	3
11	Isomeric Thiolate Monolayer Protected Au₉₂ and Au₁₀₂ Nanomolecules. Journal of Physical Chemistry C, 2020, 124, 1655-1666.	1.5	9
12	Nanotuning via Local Work Function Control: Ethylene Hydrogenation on Supported Pt Nanoclusters. ACS Catalysis, 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. Physical Review A, 2020, 102, .	1.0	2
14	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.	6.6	48
15	Highly Ordered Boron Nitride/Epigraphene Epitaxial Films on Silicon Carbide by Lateral Epitaxial Deposition. ACS Nano, 2020, 14, 12962-12971.	7.3	14
16	Carbide Dihydrides: Carbonaceous Species Identified in Ta₄⁺â€Mediated Methane Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 23631-23635.	7.2	10
17	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:mr 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:mr Physical Review B, 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. Physical Review A, 2020, 101, .	1.0	3

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19	Infrared Spectroscopy of Gas-Phase Mn_xO_y(CO₂)_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	Carbidâ€Dihydride: kohlenstoffhaltige Spezies identifiziert in der Ta 4 + â€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 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.	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 Gasâ€Phase Ca_nMn_{4â^'n}O₄⁺ Cluster Model for the Oxygenâ€Evolving Complex of Photosystem II. Angewandte Chemie, 2019, 131, 8592-8597.	1.6	9
26	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.	7.2	10
27	Methanol Câ€“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 Ironâ€“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 ironâ€“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 Î¼-Oxo Ligands in Tantalum Cluster Cations [TaxO]+, x = 4, 5. Journal of Physical Chemistry C, 2018, 122, 25628-25637.	1.5	16

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37	Synthetic and Postsynthetic Chemistry of M₄Au_xAg_{44â€“x}(p-MBA)₃₀ Alloy Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 13166-13174.	1.5	22
38	M ₄Au₁₂Ag₃₂(p-MBA)₃₀ (M = Na,) Tj ETQq0 0 0 rgBT /Overlo E: Crystallographic Communications, 2018, 74, 987-993.	0.2	6
39	Ethene to Graphene: Surface Catalyzed Chemical Pathways, Intermediates, and Assembly. Journal of Physical Chemistry C, 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. Physical Review A, 2017, 95, .	1.0	3
41	Trial wave functions for ring-trapped ions and neutral atoms: Microscopic description of the quantum space-time crystal. Physical Review A, 2017, 96, .	1.0	2
42	Can Support Acidity Predict Sub-Nanometer Catalyst Activity Trends?. ACS Catalysis, 2017, 7, 6738-6744.	5.5	24
43	Selective Câ˜H Bond Cleavage in Methane by Small Gold Clusters. Angewandte Chemie, 2017, 129, 13591-13595.	1.6	31
44	Two-point momentum correlations of few ultracold quasi-one-dimensional trapped fermions: Diffraction patterns. Physical Review A, 2017, 96, .	1.0	14
45	Selective Câ˜H Bond Cleavage in Methane by Small Gold Clusters. Angewandte Chemie - International Edition, 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 andtâ€“Jmodels. New Journal of Physics, 2016, 18, 073018.	1.2	22
47	Cluster size and composition dependent water deprotonation by free manganese oxide clusters. Physical Chemistry Chemical Physics, 2016, 18, 15727-15737.	1.3	30
48	Confirmation of a de novo structure prediction for an atomically precise monolayer-coated silver nanoparticle. Science Advances, 2016, 2, e1601609.	4.7	39
49	Controlling Ethylene Hydrogenation Reactivity on Pt₁₃ Clusters by Varying the Stoichiometry of the Amorphous Silica Support. Angewandte Chemie - International Edition, 2016, 55, 8953-8957.	7.2	32
50	Controlling Ethylene Hydrogenation Reactivity on Pt₁₃ Clusters by Varying the Stoichiometry of the Amorphous Silica Support. Angewandte Chemie, 2016, 128, 9099-9103.	1.6	1
51	Assessing the concept of structure sensitivity or insensitivity for sub-nanometer catalyst materials. Surface Science, 2016, 652, 7-19.	0.8	36
52	Interaction of Ironâ€“Sulfur Clusters with N₂: Biomimetic Systems in the Gas Phase. Journal of Physical Chemistry C, 2016, 120, 12549-12558.	1.5	30
53	Structure sensitivity in the nonscalable regime explored via catalysed ethylene hydrogenation on supported platinum nanoclusters. Nature Communications, 2016, 7, 10389.	5.8	115
54	Ethylene hydrogenation on supported Ni, Pd and Pt nanoparticles: Catalyst activity, deactivation and the d-band model. Journal of Catalysis, 2016, 333, 51-58.	3.1	62

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55	The Interaction of Water with Free Mn₄O₄⁺ Clusters: Deprotonation and Adsorptionâ€Induced Structural Transformations. Angewandte Chemie - International Edition, 2015, 54, 15113-15117.	7.2	24
56	M₄Ag₄₄(p-MBA)₃₀ Molecular Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 11238-11249.	1.5	37
57	Transport, Aharonovâ€“Bohm, and Topological Effects in Graphene Molecular Junctions and Graphene Nanorings. Journal of Physical Chemistry C, 2015, 119, 11131-11142.	1.5	13
58	Water Deprotonation via Oxo-Bridge Hydroxylation and ¹⁸O-Exchange in Free Tetra-Manganese Oxide Clusters. Journal of Physical Chemistry C, 2015, 119, 10881-10887.	1.5	22
59	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.	0.7	16
60	Interplay of relativistic and nonrelativistic transport in atomically precise segmented graphene nanoribbons. Scientific Reports, 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. ACS Catalysis, 2015, 5, 2275-2289.	5.5	47
62	M₃Ag₁₇(SPh)₁₂ Nanoparticles and Their Structure Prediction. Journal of the American Chemical Society, 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. Nano Letters, 2015, 15, 7105-7111.	4.5	23
64	Hydrogen-bonded structure and mechanical chiral response of a silver nanoparticle superlattice. Nature Materials, 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. Physical Review B, 2014, 89, .	1.1	13
66	Size-Dependent Self-Limiting Oxidation of Free Palladium Clusters. Journal of Physical Chemistry A, 2014, 118, 8572-8582.	1.1	22
67	Topological effects and particle physics analogies beyond the massless Dirac-Weyl fermion in graphene nanorings. Physical Review B, 2013, 87, .	1.1	14
68	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.	1.1	140
69	Atomically Precise Silver Clusters as New SERS Substrates. Journal of Physical Chemistry Letters, 2013, 4, 2769-2773.	2.1	40
70	Ultrastable silver nanoparticles. Nature, 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. Nano Letters, 2013, 13, 4739-4745.	4.5	38
72	Fundamental Insight into the Substrateâ€Dependent Ripening of Monodisperse Clusters. ChemCatChem, 2013, 5, 3330-3341.	1.8	52

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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 Au₁₄₄(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: Au₂₅⁺, Au₃₈⁺ and Au₁₀₂⁺. 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 Au₃₆(SR)₂₄. Angewandte Chemie - International Edition, 2012, 51, 13114-13118.	7.2	519
80	Pd₆O₄⁺: 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 Pd₃₀ 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 Pd₁₃O_x 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 Ag₁₅₂(SCH₂CH₂Ph)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 Au₂⁺: 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<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, .	1.1	16

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91	Sizeâ€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 Au2+(Angew. Chem. 5/2010). Angewandte Chemie, 2010, 122, 833-833.	1.6	0
93	Methane Activation and Catalytic Ethylene Formation on Free Au₂⁺. Angewandte Chemie - International Edition, 2010, 49, 980-983.	7.2	137
94	Cover Picture: Methane Activation and Catalytic Ethylene Formation on Free Au2+ (Angew. Chem. Int.) Tj ETQq0 0 0 rgBT /Overlock 10 T	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

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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 Accessability 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:Â 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

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127	Bosonic Molecules in Rotating Traps. Physical Review Letters, 2006, 97, 090401.	2.9	18
128	Bonding Trends and Dimensionality Crossover of Gold Nanoclusters on Metal-Supported MgO Thin Films. Physical Review Letters, 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. Physical Review B, 2006, 73, .	1.1	22
130	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.	3.3	53
131	Charging Effects on Bonding and Catalyzed Oxidation of CO on Au8 Clusters on MgO. Science, 2005, 307, 403-407.	6.0	1,358
132	Water-Enhanced Catalysis of CO Oxidation on Free and Supported Gold Nanoclusters. Physical Review Letters, 2005, 95, 106102.	2.9	211
133	Unified description of floppy and rigid rotating Wigner molecules formed in quantum dots. Physical Review B, 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. Physical Review B, 2004, 70, .	1.1	38
135	Crystalline Boson Phases in Harmonic Traps: Beyond the Gross-Pitaevskii Mean Field. Physical Review Letters, 2004, 93, 230405.	2.9	44
136	Phase-Controlled Force and Magnetization Oscillations in Superconducting Ballistic Nanowires. Physical Review Letters, 2004, 92, 126802.	2.9	5
137	Small is different: energetic, structural, thermal, and mechanical properties of passivated nanocluster assemblies. Faraday Discussions, 2004, 125, 1.	1.6	239
138	Hydrogen Welding and Hydrogen Switches in a Monatomic Gold Nanowire. Nano Letters, 2004, 4, 1845-1852.	4.5	66
139	Frictional Forces and Amontons' Law:Â From the Molecular to the Macroscopic Scale. Journal of Physical Chemistry B, 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. Angewandte Chemie, 2003, 115, 1335-1338.	1.6	52
141	Structural, Electronic, and Impurity-Doping Effects in Nanoscale Chemistry: Supported Gold Nanoclusters. Angewandte Chemie - International Edition, 2003, 42, 1297-1300.	7.2	547
142	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.	1.1	598
143	Catalytic CO Oxidation by Free Au2-:Â Experiment and Theory. Journal of the American Chemical Society, 2003, 125, 10437-10445.	6.6	386
144	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.	6.6	72

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145	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.	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 O2 with Gold Clusters:â€‰ 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 electronâ€“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 SiO2â€“(H2O)n clusters. Journal of Chemical Physics, 2002, 116, 9300-9304.	1.2	41
155	Trial wave functions with long-range Coulomb correlations for two-dimensionalN-electron systems in high magnetic fields. Physical Review B, 2002, 66, .	1.1	67
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