Richard E Palmer

List of Publications by Year
in descending order

443 papers	12,887 citations	25034 57 h-index	45317 90 g-index
453 all docs	453 docs citations	453 times ranked	11363 citing authors

#	Article	IF	Citations
1	High-resolution detection of Au catalyst atoms in Si nanowires. Nature Nanotechnology, 2008, 3, 168-173.	31.5	575
2	Three-dimensional atomic-scale structure of size-selected gold nanoclusters. Nature, 2008, 451, 46-48.	27.8	409
3	Resonances in electron scattering by molecules on surfaces. Reviews of Modern Physics, 1992, 64, 383-440.	45.6	277
4	Size-selected cluster beam source based on radio frequency magnetron plasma sputtering and gas condensation. Review of Scientific Instruments, 2005, 76, 045103.	1.3	247
5	Nanostructured surfaces from size-selected clusters. Nature Materials, 2003, 2, 443-448.	27.5	241
6	Gold Nanoparticle Patterning of Silicon Wafers Using Chemical e-Beam Lithography. Langmuir, 2004, 20, 3766-3768.	3.5	203
7	Two-electron dissociation of single molecules by atomic manipulation at room temperature. Nature, 2005, 434, 367-371.	27.8	174
8	Structural analysis of a nanoparticle containing a lipid bilayer used for detergent-free extraction of membrane proteins. Nano Research, 2015, 8, 774-789.	10.4	161
9	Possibility of coherent multiple excitation in atom transfer with a scanning tunneling microscope. Physical Review B, 1994, 49, 10655-10662.	3.2	157
10	A new high transmission infinite range mass selector for cluster and nanoparticle beams. Review of Scientific Instruments, 1999, 70, 4497-4501.	1.3	150
11	Charge transfer and structure inC60adsorption on metal surfaces. Physical Review B, 1995, 51, 10039-10047.	3.2	133
12	Amorphous structures of Cu, Ag, and Au nanoclusters from first principles calculations. Journal of Chemical Physics, 2002, 117, 9548-9551.	3.0	122
13	Enhancement of the Hydrogen Evolution Reaction from Ni-MoS₂ Hybrid Nanoclusters. ACS Catalysis, 2016, 6, 6008-6017.	11.2	122
14	Sintering of Passivated Gold Nanoparticles under the Electron Beam. Langmuir, 2006, 22, 2851-2855.	3.5	117
15	Oxidative Dehydrogenation of Cyclohexane on Cobalt Oxide (Co₃O₄) Nanoparticles: The Effect of Particle Size on Activity and Selectivity. ACS Catalysis, 2012, 2, 2409-2423.	11.2	113
16	Tandem Site- and Size-Controlled Pd Nanoparticles for the Directed Hydrogenation of Furfural. ACS Catalysis, 2017, 7, 2266-2274.	11.2	113
17	Au₄₀(SR)₂₄ Cluster as a Chiral Dimer of 8-Electron Superatoms: Structure and Optical Properties. Journal of the American Chemical Society, 2012, 134, 19560-19563.	13.7	112
18	Gas condensation source for production and deposition of size-selected metal clusters. Review of Scientific Instruments, 1997, 68, 3327-3334.	1.3	111

#	Article	IF	Citations
19	Electron-molecule dynamics at surfaces. Progress in Surface Science, 1992, 41, 51-108.	8.3	110
20	Determination of the Ground-State Atomic Structures of Size-Selected Au Nanoclusters by Electron-Beam-Induced Transformation. Physical Review Letters, 2012, 108, 245502.	7.8	109
21	Structures and optical properties of 4â€“5 nm bimetallic AgAu nanoparticles. Faraday Discussions, 2008, 138, 363-373.	3.2	103
22	Diffusion and aggregation of sizeâ€selected silver clusters on a graphite surface. Applied Physics Letters, 1996, 69, 2819-2821.	3.3	97
23	Phase transitions and excitation spectrum of submonolayer potassium on graphite. Physical Review Letters, 1991, 67, 1562-1565.	7.8	95
24	Metastability of the atomic structures of size-selected gold nanoparticles. Nanoscale, 2015, 7, 6498-6503.	5.6	94
25	Diffusion controlled growth of metallic nanoclusters at selected surface sites. Journal of Applied Physics, 1996, 79, 2942-2947.	2.5	93
26	Pinning of size-selected Ag clusters on graphite surfaces. Journal of Chemical Physics, 2000, 113, 7723-7727.	3.0	92
27	Fabrication of silicon cones and pillars using rough metal films as plasma etching masks. Applied Physics Letters, 1999, 74, 1627-1629.	3.3	86
28	Atomic Structure Control of Size-Selected Gold Nanoclusters during Formation. Journal of the American Chemical Society, 2014, 136, 7559-7562.	13.7	86
29	Controlled Formation of Mass-Selected Cuâ€“Au Coreâ€“Shell Cluster Beams. Journal of the American Chemical Society, 2011, 133, 10325-10327.	13.7	84
30	Indirect Band Gap of Light-EmittingBC2N. Physical Review Letters, 1999, 83, 2406-2408.	7.8	81
31	Mechanisms of Molecular Manipulation with the Scanning Tunneling Microscope at Room Temperature: Chlorobenzene/Si(111)â^'(7Ã—7). Physical Review Letters, 2003, 91, 118301.	7.8	81
32	Chemisorption of benzene and STM dehydrogenation products on Cu(100). Physical Review B, 2003, 68, .	3.2	79
33	Quantitative Z-contrast imaging in the scanning transmission electron microscope with size-selected clusters. Physical Review B, 2011, 84, .	3.2	76
34	Temperature-dependent plasmon frequency and linewidth in a semimetal. Physical Review Letters, 1991, 66, 492-495.	7.8	75
35	Dialkyl Sulfides:â€‰ Novel Passivating Agents for Gold Nanoparticles. Langmuir, 2002, 18, 1791-1795.	3.5	75
36	Loss structure in the electron-energy-loss excitation continuum of a semimetal. Physical Review Letters, 1987, 58, 2490-2493.	7.8	73

#	ARTICLE	IF	CITATIONS
37	Experimental Evidence for Fluctuating, Chiral-Type Au₅₅ Clusters by Direct Atomic Imaging. Nano Letters, 2012, 12, 5510-5514.	9.1	72
38	Direct atomic imaging and dynamical fluctuations of the tetrahedral Au20 cluster. Nanoscale, 2012, 4, 4947.	5.6	72
39	X-ray and UV photoemission studies of mono-, bi- and multilayers of physisorbed molecules: O2 and N2 on graphite. Surface Science, 1993, 295, 1-12.	1.9	71
40	Shallow Implantation of â€œSize-Selectedâ€•Ag Clusters into Graphite. Physical Review Letters, 2000, 84, 2654-2657.	7.8	71
41	Ultrafast laser ablation of graphite. Physical Review B, 2009, 79, .	3.2	71
42	Performance of Preformed Au/Cu Nanoclusters Deposited on MgO Powders in the Catalytic Reduction of 4â€Nitrophenol in Solution. Small, 2018, 14, e1703734.	10.0	71
43	Orientation of a molecular precursor: a NEXAFS study of O2/Ag(110). Surface Science, 1992, 278, 239-245.	1.9	70
44	Trapping of size-selected Ag clusters at surface steps. Applied Physics Letters, 1998, 72, 305-307.	3.3	70
45	A Fullerene derivative as an electron beam resist for nanolithography. Applied Physics Letters, 1998, 72, 1302-1304.	3.3	70
46	Weighing Supported Nanoparticles: Size-Selected Clusters as Mass Standards in Nanometrology. Physical Review Letters, 2008, 101, 246103.	7.8	70
47	Energetic Impact of Size-Selected Metal Cluster Ions on Graphite. Physical Review Letters, 1998, 81, 3715-3718.	7.8	69
48	Scaling Relations for Implantation of Size-Selected Au, Ag, and Si Clusters into Graphite. Physical Review Letters, 2003, 90, 055503.	7.8	69
49	Selective resonance population in electron scattering by adsorbed molecules. Physical Review Letters, 1990, 64, 1301-1304.	7.8	68
50	Atomic Resolution Observation of a Size-Dependent Change in the Ripening Modes of Mass-Selected Au Nanoclusters Involved in CO Oxidation. Journal of the American Chemical Society, 2015, 137, 15161-15168.	13.7	68
51	Acoustic Plasmon on the Au(111) Surface. Physical Review Letters, 2010, 105, 016801.	7.8	67
52	Determination of Adsorbate Molecular Orientation from Resonance Electron-Scattering Angular Distributions. Physical Review Letters, 1988, 60, 329-332.	7.8	65
53	Experimental determination of the energy difference between competing isomers of deposited, size-selected gold nanoclusters. Nature Communications, 2018, 9, 1323.	12.8	65
54	Synthesis without Solvents: The Cluster (Nanoparticle) Beam Route to Catalysts and Sensors. Accounts of Chemical Research, 2018, 51, 2296-2304.	15.6	65

#	Article	IF	Citations
55	Deposition of size-selected metal clusters generated by magnetron sputtering and gas condensation: a progress review. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 117-124.	3.4	61
56	Direct imaging of core-shell structure in silver-gold bimetallic nanoparticles. Applied Physics Letters, 2005, 87, 243103.	3.3	61
57	Deposition and growth of noble metal clusters on graphite. Journal of the Chemical Society Dalton Transactions, 1996, , 665.	1.1	59
58	Transformations of citrate and Tween coated silver nanoparticles reacted with Na2S. Science of the Total Environment, 2015, 502, 344-353.	8.0	58
59	Rotational states of physisorbed hydrogen on graphite. Surface Science, 1987, 179, L1-L5.	1.9	57
60	Synthesis of bimetallic Pt-Pd core-shell nanocrystals and their high electrocatalytic activity modulated by Pd shell thickness. Nanoscale, 2012, 4, 845-851.	5.6	57
61	Counting the Atoms in Supported, Monolayer-Protected Gold Clusters. Journal of the American Chemical Society, 2010, 132, 2854-2855.	13.7	56
62	Note: Proof of principle of a new type of cluster beam source with potential for scale-up. Review of Scientific Instruments, 2016, 87, 046103.	1.3	56
63	Hydrogen evolution enhancement of ultra-low loading, size-selected molybdenum sulfide nanoclusters by sulfur enrichment. Applied Catalysis B: Environmental, 2018, 235, 84-91.	20.2	56
64	Two Chemisorbed Species ofO2on Ag(110). Physical Review Letters, 1998, 80, 5224-5227.	7.8	55
65	Pinning of size-selected gold and nickel nanoclusters on graphite. Physical Review B, 2005, 72, .	3.2	55
66	Synthesis and Characterization of Polyvinylpyrrolidone Coated Cerium Oxide Nanoparticles. Environmental Science & Technology, 2013, 47, 12426-12433.	10.0	55
67	Guided Assembly of Colloidal Particles on Patterned Substrates. Langmuir, 2001, 17, 7150-7155.	3.5	52
68	Modeling the pinning of Au and Ni clusters on graphite. Physical Review B, 2006, 73, .	3.2	51
69	Mass Spectrometry and Dynamics of Gold Adatoms Observed on the Surface of Size-Selected Au Nanoclusters. Nano Letters, 2012, 12, 91-95.	9.1	51
70	Competing routes for charge transfer in co-adsorption of K andO2on graphite. Physical Review Letters, 1993, 71, 641-644.	7.8	50
71	Plasmon Dispersion and Damping at the Surface of a Semimetal. Physical Review Letters, 1996, 76, 1952-1955.	7.8	50
72	Resonance electron scattering by O2 monolayers on graphite. Surface Science, 1990, 237, 153-172.	1.9	49

#	ARTICLE	IF	CITATIONS
73	Influence of island mobility on island size distributions in surface growth. Physical Review B, 1996, 53, R7646-R7649.	3.2	48
74	Unravelling the nucleation mechanism of bimetallic nanoparticles with composition-tunable coreâ€“shell arrangement. Nanoscale, 2018, 10, 6684-6694.	5.6	48
75	Atomic-resolution imaging of surface and core melting in individual size-selected Au nanoclusters on carbon. Nature Communications, 2019, 10, 2583.	12.8	48
76	Nonlocal Desorption of Chlorobenzene Molecules from the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Si</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo stretchy="false">)</mml:mo><mml:mtext mathvariant="normal">âˆ'</mml:mtext><mml:mo stretchy="false">(</mml:mo><mml:mn>7</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>7</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Ov Tunne	7.8	47
77	Electronic structure and phase transitions of submonolayer potassium on graphite. Physical Review B, 1992, 46, 15484-15489.	3.2	46
78	On the role of the pore filling medium in photoluminescence from photochemically etched porous silicon. Journal of Applied Physics, 2000, 88, 2472-2479.	2.5	46
79	The C60/Au(111) interface at room temperature: A scanning tunnelling microscopy study. Surface Science, 2008, 602, 885-892.	1.9	46
80	Blue-shifted plasmon resonance of individual size-selected gold nanoparticles. Optics Communications, 2008, 281, 480-483.	2.1	46
81	Tailoring Gold Nanoparticle Characteristics and the Impact on Aqueous-Phase Oxidation of Glycerol. ACS Catalysis, 2015, 5, 4377-4384.	11.2	45
82	The impact of size-selected Ag clusters on graphite: an STM study. Journal of Physics Condensed Matter, 1996, 8, L617-L624.	1.8	44
83	10 nm scale electron beam lithography using a triphenylene derivative as a negative/positive tone resist. Journal Physics D: Applied Physics, 1999, 32, L75-L78.	2.8	43
84	Immobilization of Protein Molecules by Size-Selected Metal Clusters on Surfaces. Advanced Materials, 2004, 16, 223-226.	21.0	43
85	Realâ€Space Observation of Prolate Monolayerâ€Protected Au₃₈ Clusters Using Aberrationâ€Corrected Scanning Transmission Electron Microscopy. Small, 2011, 7, 1542-1545.	10.0	43
86	Orientation-dependent final-state effects in photoelectron spectra of physisorbed molecules. Physical Review Letters, 1992, 68, 982-985.	7.8	42
87	Temperature dependent behaviour in the adsorption of submonolayer potassium on graphite. Surface Science, 1993, 284, 349-360.	1.9	41
88	Manipulation of passivated gold clusters on graphite with the scanning tunneling microscope. Applied Physics Letters, 1998, 72, 176-178.	3.3	40
89	Resonance electron scattering from adsorbed molecules: Angular distribution of inelastically scattered electrons and application to physisorbedO2on graphite. Physical Review B, 1989, 39, 7552-7560.	3.2	39
90	Scanning tunneling microscopy of ordered coated cluster layers on graphite. Applied Physics Letters, 1997, 71, 2940-2942.	3.3	39

#	ARTICLE	IF	CITATIONS
91	Fabrication of ordered arrays of silicon cones by optical diffraction in ultrafast laser etching with SF6. Applied Physics A: Materials Science and Processing, 2004, 78, 381-385.	2.3	39
92	The cluster beam route to model catalysts and beyond. Faraday Discussions, 2016, 188, 39-56.	3.2	39
93	Phonons in graphite studied by eels. Journal of Electron Spectroscopy and Related Phenomena, 1987, 44, 355-360.	1.7	38
94	Core level spectroscopy of physisorbed molecules on graphite. Surface Science, 1993, 287-288, 758-769.	1.9	38
95	Film growth and surface reactions ofC60onSi(100)H(2Ã—1). Physical Review B, 1997, 56, 9918-9924.	3.2	38
96	Compact sputter source for deposition of small size-selected clusters. Review of Scientific Instruments, 1997, 68, 3335-3339.	1.3	38
97	Immobilization of large size-selected silver clusters on graphite. Nanotechnology, 2006, 17, 805-807.	2.6	37
98	A Chemically Amplified Fullereneâ€Derivative Molecular Electronâ€Beam Resist. Small, 2007, 3, 2076-2080.	10.0	37
99	Fabrication and atomic structure of size-selected, layered MoS₂clusters for catalysis. Nanoscale, 2014, 6, 12463-12469.	5.6	37
100	Atomically resolved real-space imaging of hot electron dynamics. Nature Communications, 2015, 6, 8365.	12.8	37
101	Scanning probe energy loss spectroscopy: Angular resolved measurements on silicon and graphite surfaces. Applied Physics Letters, 2000, 77, 4223-4225.	3.3	36
102	Clusters for biology: immobilization of proteins by size-selected metal clusters. Applied Surface Science, 2004, 226, 197-208.	6.1	36
103	Formation of 10 nm Si structures using size-selected metal clusters. Journal Physics D: Applied Physics, 1998, 31, L21-L24.	2.8	35
104	Morphology of the ferritin iron core by aberration corrected scanning transmission electron microscopy. Nanotechnology, 2016, 27, 46LT02.	2.6	35
105	Synergistic Computationalâ€“Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation. ACS Catalysis, 2020, 10, 451-457.	11.2	35
106	Electron beam induced fragmentation of fullerene derivatives. Chemical Physics Letters, 1998, 289, 586-590.	2.6	34
107	Fabrication of ordered arrays of silicon nanopillars. Journal Physics D: Applied Physics, 1999, 32, L129-L132.	2.8	34
108	Nanoscopic Coulomb explosion in ultrafast graphite ablation. Applied Physics Letters, 2007, 90, 153119.	3.3	34

#	Article	IF	Citations
109	Plasmon Dispersion of the Au(111) Surface with and without Self-Assembled Monolayers. Physical Review Letters, 2009, 102, 216805.	7.8	34
110	Novel Powder-Supported Size-Selected Clusters for Heterogeneous Catalysis under Realistic Reaction Conditions. Journal of Physical Chemistry C, 2012, 116, 26295-26299.	3.1	34
111	Pinning of size-selected Pd nanoclusters on graphite. Journal of Chemical Physics, 2006, 125, 084704.	3.0	33
112	Combining Theory and Experiment to Characterize the Atomic Structures of Surface-Deposited Au₃₀₉Clusters. Journal of Physical Chemistry C, 2007, 111, 17846-17851.	3.1	33
113	MoS2 and WS2 nanocone arrays: Impact of surface topography on the hydrogen evolution electrocatalytic activity and mass transport. Applied Materials Today, 2018, 11, 70-81.	4.3	33
114	Adsorbate resonant states: Resonance energy shifts due to elastic multiple electron scattering. Physical Review Letters, 1989, 63, 2496-2499.	7.8	32
115	Colloidal Lines and Strings. Langmuir, 2003, 19, 9669-9671.	3.5	32
116	Immobilisation of proteins by atomic clusters on surfaces. Trends in Biotechnology, 2007, 25, 48-55.	9.3	32
117	High Resolution STEM-EELS Study of Silver Nanoparticles Exposed to Light and Humic Substances. Environmental Science & Technology, 2016, 50, 2183-2190.	10.0	32
118	Impact of particle size, oxidation state and capping agent of different cerium dioxide nanoparticles on the phosphate-induced transformations at different pH and concentration. PLoS ONE, 2019, 14, e0217483.	2.5	32
119	Resonant electron-stimulated desorption of Oâˆ’ ions from oriented O2 on graphite. Surface Science, 1992, 272, 313-317.	1.9	31
120	Imaging thin films of organic molecules with the scanning tunnelling microscope. Physical Chemistry Chemical Physics, 2002, 4, 4275-4284.	2.8	31
121	Beyond the Herringbone Reconstruction: Magic Gold Fingers. Small, 2004, 1, 76-79.	10.0	31
122	Size-dependent propagation of Au nanoclusters through few-layer graphene. Nanoscale, 2014, 6, 1258-1263.	5.6	31
123	Intercalation of potassium from the surface of graphite. Surface Science, 1993, 287-288, 178-182.	1.9	30
124	Orientation in molecule - surface interactions. Journal of Physics Condensed Matter, 1996, 8, 3245-3269.	1.8	30
125	Deposition of passivated gold nanoclusters onto prepatterned substrates. Applied Physics Letters, 1999, 74, 2833-2835.	3.3	30
126	Chemically amplified molecular resists for electron beam lithography. Microelectronic Engineering, 2006, 83, 1115-1118.	2.4	30

#	Article	IF	Citations
127	Surface dielectric response of a semimetal: Electron-energy-loss spectroscopy of graphite. Physical Review B, 1988, 37, 2408-2414.	3.2	29
128	Electronic and geometric structure of Cs on graphite (0001). Surface Science, 1996, 364, 266-272.	1.9	29
129	STM studies of passivated Au nanocrystals immobilised on a passivated Au(111) surface: ordered arrays and single electron tunnelling. Chemical Physics Letters, 2000, 330, 1-6.	2.6	29
130	Surface plasmon excitation of Au and Ag in scanning probe energy loss spectroscopy. Applied Physics Letters, 2008, 93, .	3.3	29
131	Cluster Beam Deposition of Ultrafine Cobalt and Ruthenium Clusters for Efficient and Stable Oxygen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 3013-3018.	5.1	29
132	Data-driven simulation and characterisation of gold nanoparticle melting. Nature Communications, 2021, 12, 6056.	12.8	29
133	NEXAFS study of molecular orientation in physisorbed oxygen on graphite. Surface Science, 1992, 269-270, 432-437.	1.9	28
134	Deep plasma etching of piezoelectric PZT with SF[sub 6]. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 2020.	1.6	28
135	Layer by layer removal of Au atoms from passivated Au(111) surfaces using the scanning tunneling microscope: Nanoscale â€œpaint strippingâ€• Journal of Chemical Physics, 2002, 116, 7151-7157.	3.0	28
136	Supramolecular Monolayers of Zinc Porphyrin Trimers on Graphite. Journal of Physical Chemistry B, 2003, 107, 209-216.	2.6	28
137	Structural dynamics induced by self-assembled monolayers on Au(111). Physical Review B, 2005, 71, .	3.2	28
138	Composition-Tuned Pt-Skinned PtNi Bimetallic Clusters as Highly Efficient Methanol Dehydrogenation Catalysts. Chemistry of Materials, 2019, 31, 10040-10048.	6.7	28
139	Structure and orientation effects in the coalescence of Au clusters. Nanoscale, 2020, 12, 7688-7699.	5.6	28
140	A resonance EELS study of CO monolayers on graphite. Surface Science, 1990, 233, 269-275.	1.9	27
141	Metastable ordered arrays of size-selected Ag clusters on graphite. Applied Physics Letters, 2003, 82, 2595-2597.	3.3	27
142	Tip-State Control of Rates and Branching Ratios in Atomic Manipulation. Nano Letters, 2005, 5, 835-839.	9.1	27
143	Active site manipulation in MoS₂ cluster electrocatalysts by transition metal doping. Nanoscale, 2020, 12, 4459-4472.	5.6	27
144	Size control of Au nanoparticles from the scalable and solvent-free matrix assembly cluster source. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	27

#	Article	IF	Citations
145	Electron-beam-induced fragmentation in ultrathinC60films onSi(100)â ̂'2Ã—1â ̂'H:Mechanisms of cage destruction. Physical Review B, 1999, 60, 5927-5937.	3.2	26
146	Scanning probe energy loss spectroscopy. Surface Science, 2002, 502-503, 224-231.	1.9	26
147	Pinning and implantation of size-selected metal clusters: a topical review. Vacuum, 2002, 66, 167-173.	3.5	26
148	Fullerene Resist Materials for the 32â€‰nm Node and Beyond. Advanced Functional Materials, 2008, 18, 1977-1982.	14.9	26
149	Hybrid atomic structure of the Schmid cluster Au₅₅(PPh₃)₁₂Cl₆ resolved by aberration-corrected STEM. Nanoscale, 2015, 7, 885-888.	5.6	26
150	Modification of Deposited, Size-Selected MoS2 Nanoclusters by Sulphur Addition: An Aberration-Corrected STEM Study. Inorganics, 2017, 5, 1.	2.7	26
151	The electronic catalyst: dissociation of chlorinated hydrocarbons by metal-insulator-metal electron emitters. Chemical Physics Letters, 1995, 234, 354-358.	2.6	25
152	Building supramolecular nanostructures on surfaces: the influence of the substrate. Chemical Physics Letters, 1997, 279, 209-214.	2.6	25
153	A triphenylene derivative as a novel negative/positive tone resist of 10 nanometer resolution. Microelectronic Engineering, 2000, 53, 425-428.	2.4	25
154	Nucleation and growth of C60 thin films on graphite. Surface Science, 2000, 447, 126-132.	1.9	25
155	Local Three-Dimensional Visualization of Nanoparticle Assemblies. Advanced Materials, 2005, 17, 2885-2888.	21.0	25
156	Communication: Suppression of sintering of size-selected Pd clusters under realistic reaction conditions for catalysis. Journal of Chemical Physics, 2011, 134, 141101.	3.0	25
157	Resonance electron scattering by physisorbed and chemisorbed O2 on Pt(111). Chemical Physics Letters, 1993, 210, 15-20.	2.6	24
158	Deposition and diffusion of size-selected (Ag 400 +) clusters on a stepped graphite surface. Applied Physics A: Materials Science and Processing, 1998, 67, 613-619.	2.3	24
159	Exposure mechanism of fullerene derivative electron beam resists. Chemical Physics Letters, 1999, 312, 469-474.	2.6	24
160	Patterned arrays of porous InP from photolithography and electrochemical etching. Journal of Applied Physics, 2003, 94, 7598.	2.5	24
161	Scanning probe energy loss spectroscopy below 50nm resolution. Applied Physics Letters, 2004, 85, 5034-5036.	3.3	24
162	<i>Processing and Characterization of Gold Nanoparticles for Use in Plasmon Probe Spectroscopy and Microscopy of Biosystems</i>. Annals of the New York Academy of Sciences, 2008, 1130, 201-206.	3.8	24

#	ARTICLE	IF	CITATIONS
163	A New Mechanism of Atomic Manipulation: Bond-Selective Molecular Dissociation <i>via</i> Thermally Activated Electron Attachment. ACS Nano, 2010, 4, 7344-7348.	14.6	24
164	Room temperature manipulation of self-organised supramolecular nanostructures with a scanning tunnelling microscope. Chemical Physics Letters, 1998, 294, 229-232.	2.6	23
165	Tunable pulsed vacuum ultraviolet light source for surface science and materials spectroscopy based on high order harmonic generation. Review of Scientific Instruments, 2001, 72, 1977-1983.	1.3	23
166	Low energy deposition of size-selected Si clusters onto graphite. Chemical Physics Letters, 2001, 333, 304-307.	2.6	23
167	Quantitative evaluation of electron beam writing in passivated gold nanoclusters. Applied Physics Letters, 2001, 78, 1921-1923.	3.3	23
168	Scaling behavior of the penetration depth of energetic silver clusters in graphite. Physical Review B, 2002, 65, .	3.2	23
169	Implantation depth of size-selected silver clusters into graphite. Journal of Physics Condensed Matter, 2002, 14, L185-L191.	1.8	23
170	Ageing of mass-selected Cu/Au and Au/Cu core/shell clusters probed with atomic resolution. Journal of Experimental Nanoscience, 2012, 7, 703-710.	2.4	23
171	Chemically amplified phenolic fullerene electron beam resist. Journal of Materials Chemistry C, 2014, 2, 1505.	5.5	23
172	Variation of the Core Atomic Structure of Thiolated (Au_{<i>x</i>}Ag_{1â€"<i>x</i>})_{312Â±55} Nanoclusters with Composition from Aberration-Corrected HAADF STEM. Journal of Physical Chemistry C, 2015, 119, 11114-11119.	3.1	23
173	The size-dependent morphology of Pd nanoclusters formed by gas condensation. Nanoscale, 2015, 7, 19647-19652.	5.6	23
174	A High Resolution Study of Dynamic Changes of Ce₂O₃ and CeO₂ Nanoparticles in Complex Environmental Media. Environmental Science & Technology, 2017, 51, 8010-8016.	10.0	23
175	Nanoparticle Arrays Patterned by Electron-Beam Writing:Â Structure, Composition, and Electrical Properties. Langmuir, 2005, 21, 1556-1559.	3.5	22
176	Ultrathin Fullerene Films as High-Resolution Molecular Resists for Low-Voltage Electron-Beam Lithography. Small, 2006, 2, 1003-1006.	10.0	22
177	Initiating and imaging the coherent surface dynamics of charge carriers in real space. Nature Communications, 2016, 7, 12839.	12.8	22
178	Selection rules in resonance electron scattering from adsorbed molecules. Physical Review B, 1990, 41, 4793-4796.	3.2	21
179	Nanostructures from nanoparticles. Journal of Physics Condensed Matter, 2003, 15, S3047-S3063.	1.8	21
180	Disorderâ€Induced Materialâ€Insensitive Optical Response in Plasmonic Nanostructures: Vibrant Structural Colors from Noble Metals. Advanced Materials, 2021, 33, e2007623.	21.0	21

#	Article	IF	Citations
181	Alginate-Iron Speciation and Its Effect on In Vitro Cellular Iron Metabolism. PLoS ONE, 2015, 10, e0138240.	2.5	21
182	Potassium-adsorption-induced plasmon frequency shift in graphite. Journal of Physics Condensed Matter, 1991, 3, S103-S106.	1.8	20
183	Surface Enhanced Photodissociation of Physisorbed Molecules. Physical Review Letters, 1996, 76, 1960-1963.	7.8	20
184	Mechanisms of visible photoluminescence from nanoscale silicon cones. Journal of Applied Physics, 2002, 91, 3294-3298.	2.5	20
185	Chromium inhibition and size-selected Au nanocluster catalysis for the solution growth of low-density ZnO nanowires. Scientific Reports, 2015, 5, 12336.	3.3	20
186	Modular construction of size-selected multiple-core Ptâ€“TiO₂ nanoclusters for electro-catalysis. Physical Chemistry Chemical Physics, 2015, 17, 28005-28009.	2.8	20
187	Adsorption and decomposition of ferrocene on graphite studied by HREELS and STM. Surface Science, 1998, 400, 277-280.	1.9	19
188	Microfabrication of nanoscale cluster chains on a patterned Si surface. Applied Physics Letters, 1998, 73, 2030-2032.	3.3	19
189	Surface plasmon dispersion of a cluster-assembled silver nanoparticle film. Physical Review B, 1999, 59, 9874-9877.	3.2	19
190	Controlling the formation of Au nanoparticles using functionalized molecular buffer layers. Surface Science, 2002, 497, 269-274.	1.9	19
191	Co-deposition of Atomic Clusters of Different Size and Composition. Small, 2006, 2, 1270-1272.	10.0	19
192	Faceting of nanoscale fingers on the (111) surface of gold. Surface Science, 2006, 600, 1504-1509.	1.9	19
193	Nanoscale surface recrystallization driven by localized electric field. Physical Review B, 2006, 73, .	3.2	19
194	Emission of ions and charged clusters due to impulsive Coulomb explosion in ultrafast laser ablation of graphite. Physical Review B, 2007, 76, .	3.2	19
195	Fullerene-based spin-on-carbon hardmask. Microelectronic Engineering, 2012, 98, 552-555.	2.4	19
196	Metal Nanoclusterâ€"Metal Organic Frameworkâ€"Polymer Hybrid Nanomaterials for Improved Hydrogen Detection. Small, 2022, 18, e2200634.	10.0	19
197	UHV sample mount for the temperature range 10â€“1300 K. Review of Scientific Instruments, 1987, 58, 1118-1120.	1.3	18
198	Chemical Amplification of a Triphenylene Molecular Electron Beam Resist. Advanced Functional Materials, 2007, 17, 2522-2527.	14.9	18

#	Article	IF	Citations
199	Bright Beaches of Nanoscale Potassium Islands on Graphite in STM Imaging. Physical Review Letters, 2009, 102, 106102.	7.8	18
200	Catalytic oxidation of cyclohexane by size-selected palladium clusters pinned on graphite. Journal of Experimental Nanoscience, 2013, 8, 993-1003.	2.4	18
201	Development of scalable and versatile nanomaterial libraries for nanosafety studies: polyvinylpyrrolidone (PVP) capped metal oxide nanoparticles. RSC Advances, 2017, 7, 3894-3906.	3.6	18
202	Electrochemical sulfidation of WS 2 nanoarrays: Strong dependence of hydrogen evolution activity on transition metal sulfide surface composition. Electrochemistry Communications, 2017, 81, 106-111.	4.7	18
203	Ultrafast Heat Flow in Heterostructures of Au Nanoclusters on Thin Films: Atomic Disorder Induced by Hot Electrons. ACS Nano, 2018, 12, 7710-7720.	14.6	18
204	Facile and environmentally friendly synthesis of ultramicroporous carbon spheres: A significant improvement in CVD method. Carbon, 2021, 171, 426-436.	10.3	18
205	Resonant electronic excitation of O2 on graphite. Chemical Physics Letters, 1990, 169, 204-208.	2.6	17
206	Polysubstituted derivatives of triphenylene as high resolution electron beam resists for nanolithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 2730.	1.6	17
207	A high resolution water soluble fullerene molecular resist for electron beam lithography. Nanotechnology, 2008, 19, 275308.	2.6	17
208	Contrasting motif preferences of platinum and gold nanoclusters between 55 and 309 atoms. Nanoscale Advances, 2019, 1, 2416-2425.	4.6	17
209	Electron-molecule scattering and photodynamics at surfaces. Surface Science, 1994, 307-309, 335-343.	1.9	16
210	Structural Properties of Self-Organized Organo-Silicon Macromolecular Films Investigated by Scanning Tunneling Microscopy and X-ray Diffraction. Journal of Physical Chemistry B, 2000, 104, 1285-1291.	2.6	16
211	Mapping the site-specific potential energy landscape for chemisorbed and physisorbed aromatic molecules on the Si(1â€‰1â€‰1)-7 Ã— 7 surface by time-lapse STM. Journal of Physics Condensed Matter, 2015, 27, 054003.	1.8	16
212	Interplay between oxygen doping and ultra-microporosity improves the CO2/N2 separation performance of carbons derived from aromatic polycarboxylates. Carbon, 2021, 173, 989-1002.	10.3	16
213	LEED and resonance EELS study of the (NO)2 dimer on graphite. Surface Science, 1995, 329, 184-192.	1.9	15
214	THE STRUCTURAL AND VIBRATIONAL PROPERTIES OF C60 ADSORBED ON THE GRAPHITE(0001) SURFACE. Surface Review and Letters, 1996, 03, 937-942.	1.1	15
215	Fabrication of size-controlled 10-nm scale Si pillars using metal clusters as formation nuclei. Microelectronic Engineering, 1998, 41-42, 539-542.	2.4	15
216	Energetic impact of small Ag clusters on graphite. Journal of Applied Physics, 1998, 83, 733-737.	2.5	15

#	ARTICLE	IF	CITATIONS
217	Weak adsorption of ethylene on GaAs(100). Physical Review B, 1998, 58, 1177-1180.	3.2	15
218	Electron-beam damage of C60 films on hydrogen-passivated Si(100). Applied Physics Letters, 1998, 72, 323-325.	3.3	15
219	Mechanism of electron-beam writing in passivated gold nanoclusters. Applied Physics Letters, 2001, 78, 2061-2063.	3.3	15
220	Imaging surfaces with reflected electrons from a field emission scanning tunnelling microscope: image contrast mechanisms. Journal Physics D: Applied Physics, 2001, 34, 1849-1852.	2.8	15
221	Fabrication of ordered arrays of silicon nanopillars at selected sites. Journal Physics D: Applied Physics, 2002, 35, L11-L14.	2.8	15
222	Insight into the Partial Oxidation of Propene:Â The Reactions of 2-Propen-1-ol on Clean and O-Covered Mo(110). Journal of the American Chemical Society, 2003, 125, 13252-13257.	13.7	15
223	High-Temperature Stability of Size-Selected Gold Nanoclusters Pinned on Graphite. Advanced Materials, 2005, 17, 731-734.	21.0	15
224	Residue-specific immobilization of protein molecules by size-selected clusters. Journal of the Royal Society Interface, 2005, 2, 169-175.	3.4	15
225	Manipulation of polyatomic molecules with the scanning tunnelling microscope at room temperature: chlorobenzene adsorption and desorption from Si(111)-(7 Ã— 7). Journal of Physics Condensed Matter, 2006, 18, S1873-S1885.	1.8	15
226	Calibrating thermal and scanning tunnelling microscope induced desorption and diffusion for the chemisorbed chlorobenzene/Si(111)7 Ã— 7 system. Journal of Physics Condensed Matter, 2010, 22, 084002.	1.8	15
227	Tip-triggered Thermal Cascade Manipulation of Magic Number Goldâ€"Fullerene Clusters in the Scanning Tunnelling Microscope. Nano Letters, 2017, 17, 6171-6176.	9.1	15
228	Orientational Epitaxy of van der Waals Molecular Heterostructures. Nano Letters, 2018, 18, 5257-5261.	9.1	15
229	Scale-Up of Cluster Beam Deposition to the Gram Scale with the Matrix Assembly Cluster Source for Heterogeneous Catalysis (Catalytic Ozonation of Nitrophenol in Aqueous Solution). ACS Applied Materials & Interfaces, 2020, 12, 24877-24882.	8.0	15
230	Size-selected Metal Clusters: New Models for Catalysis with Atomic Precision. Journal of Applied Sciences, 2011, 11, 1164-1170.	0.3	15
231	A highâ€sensitivity lowâ€energy electron diffractometer. Review of Scientific Instruments, 1989, 60, 3065-3067.	1.3	14
232	Resonance electron scattering by oriented O2, N2, and CO and application to physisorption on graphite. Journal of Chemical Physics, 1992, 97, 8736-8747.	3.0	14
233	Angular distributions in resonance electron scattering by oriented physisorbed molecules:. Surface Science, 1996, 368, 43-48.	1.9	14
234	VUV photochemistry of oriented molecules: methylchloride on highly oriented pyrolytic graphite. Surface Science, 1997, 390, 237-242.	1.9	14

#	Article	IF	Citations
235	Electron beam lithography in passivated gold nanoclusters. Microelectronic Engineering, 2001, 57-58, 837-841.	2.4	14
236	Growth of Densely Packed Gold Nanoparticles on Graphite Using Molecular Templates. Advanced Materials, 2003, 15, 1084-1087.	21.0	14
237	Local Secondary-Electron Emission Spectra via Scanning Probe Energy Loss Spectroscopy. Small, 2006, 2, 744-746.	10.0	14
238	Intensity calibration and atomic imaging of size-selected Au and Pd clusters in aberration-corrected HAADF-STEM. Journal of Physics: Conference Series, 2012, 371, 012010.	0.4	14
239	How Nanoscience Translates into Technology: The Case of Self-Assembled Monolayers, Electron-Beam Writing, and Carbon Nanomembranes. ACS Nano, 2013, 7, 6416-6421.	14.6	14
240	Crystallinity depends on choice of iron salt precursor in the continuous hydrothermal synthesis of Feâ€"Co oxide nanoparticles. RSC Advances, 2017, 7, 37436-37440.	3.6	14
241	Reduced sintering of mass-selected Au clusters on SiO₂by alloying with Ti: an aberration-corrected STEM and computational study. Nanoscale, 2018, 10, 2363-2370.	5.6	14
242	Evidence for field emission in electroformed metal-insulator-metal devices. Thin Solid Films, 1996, 288, 164-170.	1.8	13
243	Vacuum ultraviolet surface photochemistry of water adsorbed on graphite. Journal of Chemical Physics, 2002, 117, 6667-6672.	3.0	13
244	HREELS studies of gold nanoparticles with dialkyl sulphide ligands. Surface Science, 2002, 502-503, 208-213.	1.9	13
245	Plasma etching of high-resolution features in a fullerene molecular resist. Proceedings of SPIE, 2011, , .	0.8	13
246	Nonâ€Local Atomic Manipulation on Semiconductor Surfaces in the <scp>STM</scp>: The Case of Chlorobenzene on <scp>S</scp>i(111)â€7Ã—7. Chemical Record, 2014, 14, 841-847.	5.8	13
247	Site-Specific Assembly of Fullerene Nanorings Guided by Two-Dimensional Gold Clusters. Journal of Physical Chemistry C, 2016, 120, 10975-10981.	3.1	13
248	Scale-up of cluster beam deposition to the gram scale with the matrix assembly cluster source for heterogeneous catalysis (propylene combustion). AIP Advances, 2020, 10, 025314.	1.3	13
249	Insight into the intrinsic mechanism of improving electrochemical performance via constructing the preferred crystal orientation in lithium cobalt dioxide. Chemical Engineering Journal, 2020, 399, 125708.	12.7	13
250	New loss features in the EELS spectrum of semimetallic graphite. Surface Science, 1987, 189-190, 1009-1014.	1.9	12
251	Electron-driven dynamics at the gas/solid interface: dissociation, desorption and reaction of adsorbed molecules. Faraday Discussions, 1993, 96, 117.	3.2	12
252	O - ESD from O 2 monolayers physisorbed on graphite: a surface mediated mechanism. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1996, 38, 41-44.	1.0	12

#	Article	IF	Citations
253	New directions in nanoscience: new challenges for surface analysis. Surface and Interface Analysis, 2002, 34, 3-9.	1.8	12
254	Nonlinearity and time-resolved studies of ion emission in ultrafast laser ablation of graphite. Applied Physics A: Materials Science and Processing, 2008, 92, 999-1004.	2.3	12
255	Pt Diffusion Dynamics for the Formation Crâ€"Pt Coreâ€"Shell Nanoparticles. Langmuir, 2015, 31, 6917-6923.	3.5	12
256	A new method to prepare colloids of size-controlled clusters from a matrix assembly cluster source. APL Materials, 2017, 5, 053405.	5.1	12
257	On the Use of Carbon Cables from Plastic Solvent Combinations of Polystyrene and Toluene in Carbon Nanotube Synthesis. Nanomaterials, 2022, 12, 9.	4.1	12
258	Resonant substrate-mediated photodissociation of adsorbed molecules: O2/graphite. Chemical Physics Letters, 1992, 198, 241-245.	2.6	11
259	Injection of Mass-Selected Ions into a Quadrupole Ion Trap. Japanese Journal of Applied Physics, 1997, 36, L639-L642.	1.5	11
260	The development of metallic behaviour in clusters on surfaces. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 231-247.	3.4	11
261	Reactive ion etching of piezoelectric Pb(ZrxTi1â^'x)O3 in a SF6 plasma. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 2467-2469.	2.1	11
262	Negative ion resonances of O2adsorbed on Ag surfaces. Journal of Physics Condensed Matter, 2000, 12, R53-R82.	1.8	11
263	Dissociation and desorption of ferrocene on graphite by low energy electron impact. Surface Science, 2000, 451, 250-254.	1.9	11
264	HREELS study of alkanethiol passivated gold clusters on graphite. Surface Science, 2000, 454-456, 963-967.	1.9	11
265	Measuring the implantation depth of silver clusters in graphite. European Physical Journal D, 2001, 16, 115-118.	1.3	11
266	Interaction of passivated clusters in solution with micro-patterned surfaces: guided flow versus defect pinning. Nanotechnology, 2001, 12, 6-10.	2.6	11
267	Microfabrication of silicon tip structures for multiple-probe scanning tunneling microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 364.	1.6	11
268	Liquid phase deposition of supramolecular monolayers of zinc porphyrin molecules on graphite. Journal of Physics Condensed Matter, 2003, 15, S3127-S3138.	1.8	11
269	Efficient vacuum ultraviolet light frequency downconversion by thin films of CdSe quantum dots. Applied Physics Letters, 2006, 88, 171105.	3.3	11
270	Size and shape of industrial Pd catalyst particles using size-selected clusters as mass standards. Applied Physics Letters, 2013, 102, .	3.3	11

#	ARTICLE	IF	CITATIONS
271	Importance of Defective and Nonsymmetric Structures in Silver Nanoparticles. Journal of Physical Chemistry Letters, 2021, 12, 3705-3711.	4.6	11
272	Oxidative synthesis of yellow photoluminescent carbon nanoribbons from carbon black. Carbon, 2021, 183, 495-503.	10.3	11
273	Selective resonance population in EELS of physisorbed O2. Surface Science, 1992, 269-270, 420-424.	1.9	10
274	Energy and lifetime of the Ïƒ resonance of orientedO2physisorbed on Ag(110). Physical Review B, 1995, 52, 12395-12401.	3.2	10
275	In situ photoluminescence studies of photochemically grown porous silicon. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 157-160.	3.5	10
276	Fabrication of ordered arrays of silicon nanopillars in silicon-on-insulator wafers. Microelectronic Engineering, 2001, 57-58, 919-924.	2.4	10
277	Decoration of surfaces with size-selected clusters and molecular manipulation at room temperature: precision and uncertainty in organizing atoms. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1195-1205.	3.4	10
278	Patterned films of size-selected Au clusters on optical substrates. Journal of Applied Physics, 2007, 101, 044304.	2.5	10
279	Enhanced photoelectrochemical water splitting using oxidized mass-selected Ti nanoclusters on metal oxide photoelectrodes. Sustainable Energy and Fuels, 2017, 1, 336-344.	4.9	10
280	Formation and emission mechanisms of Ag nanoclusters in the Ar matrix assembly cluster source. Physical Review Materials, 2017, 1, .	2.4	10
281	New resonances in high resolution EELS of adsorbed molecules: electronic excitation of physisorbed O2. Surface Science, 1993, 291, 139-144.	1.9	9
282	Resonant excitation of low frequency modes in electron scattering by physisorbed O2 on Pt(111). Journal of Chemical Physics, 1993, 99, 7175-7178.	3.0	9
283	Growth and electronic excitations of layered structures on graphite. Surface Science, 1996, 352-354, 442-446.	1.9	9
284	â€˜â€˜Concertedâ€™â€™ regeneration of electroformed metalâ€insulatorâ€metal devices. Journal of Applied Physics, 1996, 79, 8565-8570.	2.5	9
285	Local secondary-electron emission spectra of graphite and gold surfaces obtained using the Scanning Probe Energy Loss Spectrometer (SPELS). Journal of Physics Condensed Matter, 2009, 21, 474206.	1.8	9
286	Formation of bimetallic nanoalloys by Au coating of size-selected Cu clusters. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	9
287	Performance of negative tone chemically amplified fullerene resists in extreme ultraviolet lithography. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2013, 12, 033010.	0.9	9
288	Enhanced Immobilization of Gold Nanoclusters on Graphite. Journal of Physical Chemistry A, 2014, 118, 8182-8187.	2.5	9

#	Article	IF	Citations
289	Concerted Thermal-Plus-Electronic Nonlocal Desorption of Chlorobenzene from Si(111)-7 Ã— 7 in the STM. Journal of Physical Chemistry Letters, 2014, 5, 3551-3554.	4.6	9
290	Note: Production of silver nanoclusters using a Matrix-Assembly Cluster Source with a solid CO2 matrix. Journal of Chemical Physics, 2016, 145, 166101.	3.0	9
291	Diffusion of Au(CH₃S)₂ on Au(111) Observed with the Scanning Tunneling Microscope. Journal of Physical Chemistry C, 2019, 123, 24104-24110.	3.1	9
292	Electrocatalytic Behavior of PtCu Clusters Produced by Nanoparticle Beam Deposition. Journal of Physical Chemistry C, 2020, 124, 23683-23689.	3.1	9
293	A platinumâ€“nickel bimetallic nanocluster ensemble-on-polyaniline nanofilm for enhanced electrocatalytic oxidation of dopamine. Nanoscale, 2020, 12, 6047-6056.	5.6	9
294	Interaction of nanoparticle properties and X-ray analytical techniques. Journal of Analytical Atomic Spectrometry, 2020, 35, 1022-1033.	3.0	9
295	Regeneration of electroformed metal - insulator - metal devices: a new model. Journal of Physics Condensed Matter, 1996, 8, 329-338.	1.8	8
296	Self-assembly of size-selected colloidal metal clusters: Crystalline descriptions of non-close-packed arrangements. Philosophical Magazine Letters, 1999, 79, 569-574.	1.2	8
297	Direct electron beam writing of nanostructures using passivated gold clusters. Microelectronic Engineering, 2000, 53, 187-190.	2.4	8
298	Needles and clusters of zinc porphyrin molecules on mica. Surface Science, 2006, 600, 3274-3279.	1.9	8
299	Direct Electronâ€Beam Writing of Highly Conductive Wires in Functionalized Fullerene Films. Small, 2009, 5, 2750-2755.	10.0	8
300	Positive-tone chemically amplified fullerene resist. , 2012, , .		8
301	Spin-on carbon based on fullerene derivatives as hardmask materials for high-aspect-ratio etching. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2013, 12, 033003.	0.9	8
302	Mapping the plasmon response of Ag nanoislands on graphite at 100 nm resolution with scanning probe energy loss spectroscopy. Applied Physics Express, 2015, 8, 126601.	2.4	8
303	Atomic-Scale Structure Analysis by Advanced Transmission Electron Microscopy. Frontiers of Nanoscience, 2015, , 127-159.	0.6	8
304	Real-space Wigner-Seitz Cells Imaging of Potassium on Graphite via Elastic Atomic Manipulation. Scientific Reports, 2015, 5, 8276.	3.3	8
305	Surface-induced symmetry reduction in molecular switching: asymmetric cisâ€“trans switching of CH3S-Au-SCH3on Au(111). Nanoscale, 2016, 8, 19787-19793.	5.6	8
306	Performance of a high resolution chemically amplified electron beam resist at various beam energies. Microelectronic Engineering, 2016, 155, 97-101.	2.4	8

#	Article	IF	Citations
307	Towards production of novel catalyst powders from supported size-selected clusters by multilayer deposition and dicing. Nanotechnology, 2017, 28, 325601.	2.6	8
308	Exploring the atomic structure of 1.8 nm monolayer-protected gold clusters with aberration-corrected STEM. Ultramicroscopy, 2017, 176, 146-150.	1.9	8
309	Ultrafast rotational motions of supported nanoclusters probed by electron diffraction. Nanoscale Horizons, 2019, 4, 1164-1173.	8.0	8
310	Electrostatically Stabilised Nanoparticles: Self-Organization and Electron-Beam Patterning. Journal of Nanoscience and Nanotechnology, 2005, 5, 1826-1831.	0.9	8
311	Resonance electron scattering by adsorbed molecules: resonance energy versus bond length. Surface Science, 1993, 287-288, 165-168.	1.9	7
312	Mechanistic studies of the photodissociation of physisorbed O2/graphite. Journal of Physics Condensed Matter, 1994, 6, 1955-1964.	1.8	7
313	The place of gold in the Nano World. Gold Bulletin, 1996, 29, 47-51.	2.7	7
314	Electron stimulated desorption from selected phases of physisorbed CO/graphite: evidence for structure sensitive desorption dynamics. Journal of Physics Condensed Matter, 1996, 8, L71-L78.	1.8	7
315	Electron-stimulated reaction of C60 with a model etching gas, SF6. Journal of Applied Physics, 1998, 84, 4603-4610.	2.5	7
316	The Effect of Etchant Composition on Film Structure during Laser-Assisted Porous Si Growth. Physica Status Solidi A, 2000, 182, 87-91.	1.7	7
317	Annealing effects on the microstructure of sputtered gold layers on oxidized silicon investigated by scanning electron microscopy and scanning probe microscopy. Philosophical Magazine, 2003, 83, 1137-1142.	1.6	7
318	Bioluminescence of Monolayers of Firefly Luciferase Immobilized on Graphite. Langmuir, 2006, 22, 5451-5454.	3.5	7
319	Nanostructured Gold Surfaces Fabricated with the Scanning Tunnelling Microscope. Japanese Journal of Applied Physics, 2006, 45, 2053-2055.	1.5	7
320	Low activation energy fullerene molecular resist. Proceedings of SPIE, 2009, , .	0.8	7
321	High aspect ratio etching using a fullerene derivative spin-on-carbon hardmask. , 2012, , .		7
322	The effects of 1-pentyne hydrogenation on the atomic structures of size-selected Au_Nand Pd_N(N = 923 and 2057) nanoclusters. Physical Chemistry Chemical Physics, 2014, 16, 26631-26637.	2.8	7
323	Controlled Manipulation of Magic Number Goldâ€“Fullerene Clusters Using Scanning Tunneling Microscopy. Langmuir, 2018, 34, 8388-8392.	3.5	7
324	Negative ion resonances and surface vibrations. Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 39-49.	1.7	6

#	Article	IF	Citations
325	Nanofabrication of metal structures in gold films deposited on mica. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1993, 11, 1992.	1.6	6
326	Fabrication of 10-nm Si pillars with self-formed etching masks. Microelectronic Engineering, 1997, 35, 293-296.	2.4	6
327	Nano-machining of silicon phthalocyanine dichloride films on H-passivated Si(111). Journal Physics D: Applied Physics, 1998, 31, L37-L40.	2.8	6
328	Depletion of Molecular Vibrational Modes through Electron Impact and Evidence for Resonance Dissociation to Neutrals in CondensedCH3Cl/Graphite. Physical Review Letters, 1999, 83, 3332-3335.	7.8	6
329	Vibrational spectroscopy of cinnamaldehyde on graphite and supported Pd islands. Applied Surface Science, 2001, 178, 1-6.	6.1	6
330	Surface photochemistry induced by ultrafast pulses of vacuum ultraviolet light: Physisorbed oxygen on graphite. Physical Review B, 2002, 66, .	3.2	6
331	Fabrication of Ordered Arrays of InP Microstructures by Wet Chemical Etching with Au Masks. Journal of Nanoscience and Nanotechnology, 2002, 2, 627-630.	0.9	6
332	Scanning probe energy loss spectroscopy with microfabricated coaxial tips. Physical Review B, 2010, 81, .	3.2	6
333	Quantum Chemical Cluster Models for Chemi- and Physisorption of Chlorobenzene on Si(111)-7Ã—7. Journal of Physical Chemistry A, 2014, 118, 6699-6704.	2.5	6
334	Exposure of mass-selected bimetallic Ptâ€“Ti nanoalloys to oxygen explored using scanning transmission electron microscopy and density functional theory. RSC Advances, 2018, 8, 27276-27282.	3.6	6
335	Optimization of sol-immobilized bimetallic Auâ€“Pd/TiO ₂ catalysts: reduction of 4-nitrophenol to 4-aminophenol for wastewater remediation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200057.	3.4	6
336	Gas-Phase Deposition of Gold Nanoclusters to Produce Heterogeneous Glycerol Oxidation Catalysts. ACS Applied Nano Materials, 2020, 3, 4997-5001.	5.0	6
337	Electron stimulated desorption of F+ ions from MBE grown. Surface Science, 1994, 307-309, 372-376.	1.9	5
338	Electronic excitation ofO2molecules physisorbed on Ag(110). Physical Review B, 1996, 53, 1099-1102.	3.2	5
339	A comparative study of the photodissociation of physisorbed on Pt(111) and graphite. Journal of Physics Condensed Matter, 1997, 9, 5815-5822.	1.8	5
340	Orientational ordering of a 2D molecular gas. Chemical Physics Letters, 1997, 277, 321-325.	2.6	5
341	Fullerene Derivatives as Novel Resist Materials for Fabrication of MEMS Devices by Electron Beam Lithography. Materials Research Society Symposia Proceedings, 1998, 546, 219.	0.1	5
342	Adsorption and decomposition of ethylene (C2H4) on GaAs(100). Surface Science, 1999, 441, 192-198.	1.9	5

#	Article	IF	Citations
343	Negative ion resonance states of SF6 physisorbed on the graphite surface investigated by high-resolution electron energy loss spectroscopy. Surface Science, 2000, 465, 76-80.	1.9	5
344	Chapter 15 Modelling the structure and dynamics of metal nanoclusters deposited on graphite. Chemical Physics of Solid Surfaces, 2007, , 589-616.	0.3	5
345	Optical coupling of core-shell quantum dots to size-selected gold clusters. Journal of Applied Physics, 2008, 104, 094316.	2.5	5
346	Seed induced growth of binary Ag/Au nanostructures on a graphite surface. Applied Physics Letters, 2008, 93, .	3.3	5
347	Chemically amplified fullerene resists for e-beam lithography. Proceedings of SPIE, 2008, , .	0.8	5
348	Bias-dependent scanning tunneling microscopy investigation of potassium adsorption on aSi(111)â˘’7Ã—7surface. Physical Review B, 2009, 80, .	3.2	5
349	Site- and Energy-Selective Intramolecular Manipulation of Polychlorinated Biphenyl (PCB) Molecules. Journal of the American Chemical Society, 2011, 133, 11834-11836.	13.7	5
350	Using size-selected gold clusters on graphene oxide films to aid cryo-transmission electron tomography alignment. Scientific Reports, 2015, 5, 9234.	3.3	5
351	Simple metal under tensile stress: layer-dependent herringbone reconstruction of thin potassium films on graphite. Scientific Reports, 2015, 5, 10165.	3.3	5
352	Electrocatalytic regeneration of atmospherically aged MoS₂ nanostructures via solution-phase sulfidation. RSC Advances, 2016, 6, 26689-26695.	3.6	5
353	A proximal retarding field analyzer for scanning probe energy loss spectroscopy. Nanotechnology, 2017, 28, 105711.	2.6	5
354	Bridge-bonded methylthiolate on Au(111) observed with the scanning tunneling microscope. Physical Chemistry Chemical Physics, 2018, 20, 19486-19491.	2.8	5
355	High-selectivity palladium catalysts for the partial hydrogenation of alkynes by gas-phase cluster deposition onto oxide powders. Journal of Lithic Studies, 2018, 4, 1-8.	0.5	5
356	Angular dependence of nanoparticle generation in the matrix assembly cluster source. Nano Research, 2019, 12, 3069-3074.	10.4	5
357	A Fullereneâ€"Platinum Complex for Direct Functional Patterning of Single Metal Atom-Embedded Carbon Nanostructures. Journal of Physical Chemistry Letters, 2022, 13, 1578-1586.	4.6	5
358	Interactions between multi-walled carbon nanotubes and plankton as detected by Raman spectroscopy. Chemosphere, 2022, 295, 133889.	8.2	5
359	Molecular dynamics simulation of nanofilament breakage in neuromorphic nanoparticle networks. Nanotechnology, 2022, 33, 275602.	2.6	5
360	Resonance scattering of electrons from orientated O2 physisorbed on graphite. Journal of Electron Spectroscopy and Related Phenomena, 1987, 44, 229-237.	1.7	4

#	ARTICLE	IF	CITATIONS
361	Transient negative ions in the Spectroscopy and dynamics of molecules on surfaces: orientational effects. Journal of Electron Spectroscopy and Related Phenomena, 1990, 54-55, 519-527.	1.7	4
362	Electron-stimulated ion-molecule reactions in O2 films on graphite. Chemical Physics Letters, 1993, 206, 181-186.	2.6	4
363	Negative-ion resonances in vibrational excitation and photochemistry of chemisorbed molecules: a critical case study of O2/Pt(111). Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3633.	1.7	4
364	Photon stimulated ion desorption from polyatomic molecules in the VUV: - graphite. Journal of Physics Condensed Matter, 1996, 8, L153-L158.	1.8	4
365	Implantation of Pt3-and Ag3-clusters into graphite: an STM study. Journal of Physics Condensed Matter, 2001, 13, 1869-1872.	1.8	4
366	Fabrication of co-axial field emitter tips for scanning probe energy loss spectroscopy. Nanotechnology, 2010, 21, 155304.	2.6	4
367	Optimization of fullerene-based negative tone chemically amplified fullerene resist for extreme ultraviolet lithography. , 2014, , .		4
368	Designing new catalysts: synthesis of new active structures: general discussion. Faraday Discussions, 2016, 188, 131-159.	3.2	4
369	Combining scanning tunneling microscope (STM) imaging and local manipulation to probe the high dose oxidation structure of the Si(111)-7Ã—7 surface. Nano Research, 2020, 13, 145-150.	10.4	4
370	Bonding of Gold Nanoclusters on Graphene with and without Point Defects. Nanomaterials, 2020, 10, 2109.	4.1	4
371	Eco-Friendly Synthesis of Silver Nanoparticles Using Pulsed Plasma in Liquid: Effect of Surfactants. Surfaces, 2022, 5, 202-208.	2.3	4
372	Lifetimes of molecular negative ion resonances on surfaces. Journal of Electron Spectroscopy and Related Phenomena, 1986, 38, 317-318.	1.7	3
373	An electron energy loss spectroscopy study of O2 and H2 physisorbed on graphite. Vacuum, 1988, 38, 271-274.	3.5	3
374	Initial state effects in the inverse photoemission spectrum of CO/Pd(111). Vacuum, 1988, 38, 353-355.	3.5	3
375	High-order periodicity of physisorbed CO on graphite. Journal of Physics Condensed Matter, 1989, 1, SB7-SB11.	1.8	3
376	Selective ion desorption in ESD from physisorbed CO/graphite. Chemical Physics Letters, 1995, 246, 79-84.	2.6	3
377	The gas sensitivity of device and emission currents in an electroformed MIM device. Journal Physics D: Applied Physics, 1996, 29, 837-842.	2.8	3
378	Nano-machining of films deposited on H-passivated Si(111). Journal Physics D: Applied Physics, 1997, 30, 3307-3311.	2.8	3

#	Article	IF	Citations
379	Hydrogen radical cleaning and low energy electron stimulated desorption of surface contaminants for MBE regrowth of GaAs. Applied Surface Science, 1998, 123-124, 308-312.	6.1	3
380	Orientational and translational ordering of sub-monolayer films of passivated multiply-twinned gold clusters. Journal Physics D: Applied Physics, 2000, 33, L23-L26.	2.8	3
381	Implantation of size-selected Si clusters into graphite. Applied Physics Letters, 2000, 77, 3003-3005.	3.3	3
382	Design and fabrication of colloid-based vertical nanoscale devices. Microelectronic Engineering, 2002, 61-62, 681-686.	2.4	3
383	Giant contrast reversal in scanning tunnelling microscopy of zincporphyrin monolayers on graphite. Chemical Physics Letters, 2005, 402, 121-125.	2.6	3
384	Weak precursor state binding of protein molecules to size-selected gold nanoclusters on surfaces. Surface Science, 2008, 602, 1006-1009.	1.9	3
385	Selective resonance population in high resolution electron energy loss spectroscopy of 4-ethylbenzenethiol self-assembled monolayers on Au(111). Surface Science, 2008, 602, 1492-1496.	1.9	3
386	Chemically amplified molecular resists for e-beam lithography. Microelectronic Engineering, 2008, 85, 764-767.	2.4	3
387	Interfacing Cluster Physics with Biology at the Nanoscale. Science and Technology of Atomic, Molecular, Condensed Matter and Biological Systems, 2010, , 517-556.	0.6	3
388	Preparing and regulating a bi-stable molecular switch by atomic manipulation. Journal of Physics Condensed Matter, 2012, 24, 394014.	1.8	3
389	Chemically amplified fullerene resists, spin-on fullerene hardmasks and high aspect ratio etching. , 2012, , .		3
390	Towards 11nm half-pitch resolution for a negative-tone chemically amplified molecular resist platform for extreme-ultraviolet lithography. Proceedings of SPIE, 2015, , .	0.8	3
391	Bridging model and real catalysts: general discussion. Faraday Discussions, 2016, 188, 565-589.	3.2	3
392	From plasmons to plankton: the wonderful world of physics. Advances in Physics: X, 2016, 1, 1-1.	4.1	3
393	Quantum chemical approach to atomic manipulation of chlorobenzene on the Si(111)- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>7</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>7</m surface: Resonance localization, vibrational activation, and surface dynamics. Physical Review Materials, 2017, 1, .	2.4	3
394	The interpretation of angular distributions in resonance electron scattering: multiple scattering and selection rules. Journal of Physics Condensed Matter, 1989, 1, SB225-SB226.	1.8	2
395	Photodissociation of condensed carbon dioxide below the gas phase thresholds. Chemical Physics Letters, 1998, 287, 742-746.	2.6	2
396	Desorption of organic species from the GaAs (100) surface at low temperatures using low energy electron irradiation in a hydrogen ambient. Applied Physics Letters, 2000, 76, 3034-3036.	3.3	2

#	Article	IF	Citations
397	Anomalous acid diffusion in a triphenylene molecular resist with melamine crosslinker. Microelectronic Engineering, 2008, 85, 1540-1544.	2.4	2
398	Critical stability of gold nanofingers on a zero-gradient stepped surface. Journal of Physics Condensed Matter, 2009, 21, 445001.	1.8	2
399	Characterization of the effects of base additives on a fullerene chemically amplified resist. , 2010, , .		2
400	Charge transport in nanocrystal wires created by direct electron beam writing. Micro and Nano Letters, 2010, 5, 274.	1.3	2
401	EUV lithography performance of negative-tone chemically amplified fullerene resist. , 2013, , .		2
402	Copper Metallization of Gold Nanostructure Activated Polypyrrole by Electroless Deposition. Electrochimica Acta, 2017, 246, 1210-1216.	5.2	2
403	From amorphous to ordered: Structural transformation of Pd nanoclusters in 1-pentyne hydrogenation reactions. Journal of Catalysis, 2021, 397, 58-63.	6.2	2
404	Characterization of size-selected metal clusters implanted below the surface of graphite. Journal of Applied Physics, 2003, 93, 4820-4823.	2.5	1
405	Fabrication of nanoscale vertical colloid device architectures. Microelectronic Engineering, 2004, 73-74, 542-546.	2.4	1
406	Adsorption of a model protein, the GroEL chaperonin, on surfaces. Journal of Physics Condensed Matter, 2008, 20, 353001.	1.8	1
407	Spin-on carbon using fullerene derivatives. Proceedings of SPIE, 2014, , .	0.8	1
408	Organic hard masks utilizing fullerene derivatives. , 2015, , .		1
409	Absence of Nonlocal Manipulation of Oxygen Atoms Inserted below the Si(111)-7Ã—7 Surface. Langmuir, 2020, 36, 8027-8031.	3.5	1
410	Nonlocal STM Manipulation of Chlorobenzene on Si(111)-7 Ã— 7: Potentials, Kinetics, and First-Principles Molecular Dynamics Calculations for Open Systems. Journal of Physical Chemistry C, 2021, 125, 12175-12184.	3.1	1
411	Automating 3D Imaging of Inorganic Nanoparticles. Microscopy and Microanalysis, 2021, 27, 2864-2866.	0.4	1
412	Competing photodissociation pathways for physisorbed O2/graphite investigated using Ar spacer layers. Chemical Physics Letters, 1995, 247, 348-354.	2.6	1
413	Energy Loss and (e,2e) Studies of Molecules on Surfaces. , 1993, , 265-272.		1
414	An ab initio study of size-selected Pd nanocluster catalysts for the hydrogenation of 1-pentyne. Physical Chemistry Chemical Physics, 2022, 24, 3231-3237.	2.8	1

#	Article	IF	Citations
415	Compact ultrahigh vacuum sample exchange device with wide temperature range. Review of Scientific Instruments, 1998, 69, 313-314.	1.3	0
416	Selective area oxide desorption by electron irradiation in a H2 ambient on GaAs (100). Applied Physics Letters, 1999, 74, 950-952.	3.3	0
417	Systematic Studies of Fullerene Derivative Electron Beam Resists. Materials Research Society Symposia Proceedings, 1999, 584, 115.	0.1	0
418	New High Resolution Liquid Crystal Electron Beam Resists. Materials Research Society Symposia Proceedings, 1999, 584, 129.	0.1	0
419	<title>Fabrication of micro/nanostructured surfaces using self-organized processes</title>. , 2001, , .		0
420	Negative Ion Resonance of Molecules on Surfaces: From Spectroscopy to Dynamics. , 2002, , 197-211.		0
421	Superstructure of Nanoparticle Assembly by HAADF-STEM. Microscopy and Microanalysis, 2004, 10, 346-347.	0.4	0
422	Excited states of surfaces and nanostructures in the VUV (Invited Paper). , 2005, , .		0
423	TEMPERATURE-INDUCED SURFACE STRUCTURE TRANSFORMATION OF SELF-ASSEMBLED MONOLAYERS ON Au(111): A VARIABLE TEMPERATURE STM STUDY. International Journal of Nanoscience, 2005, 04, 863-871.	0.7	0
424	Chemically Amplified Molecular Resists for E-Beam Lithography. , 2007, , .		0
425	Towards nanostructured graphene through the deposition of size-selected clusters. , 2012, , .		0
426	Spin-on-carbon hardmask based on fullerene derivatives for high-aspect ratio etching. Proceedings of SPIE, 2013, , .	0.8	0
427	Non-covalent Immobilization of Desmoplakin Plakin Domain Molecules by Size-Selected Clusters for AFM Imaging. BioNanoScience, 2014, 4, 97-103.	3.5	0
428	722: Iron chelation by biopolymers for an anti-cancer therapy; binding up the 'ferrotoxicity' in the colon. European Journal of Cancer, 2014, 50, S173.	2.8	0
429	One year of Advances in Physics: X â€“ the wonderful faculty of memory. Advances in Physics: X, 2017, 2, (i)-(ii).	4.1	0
430	The hundred and one adorable articles. Advances in Physics: X, 2018, 3, 1514836.	4.1	0
431	Five! Impact Factor, International Fellowship. Advances in Physics: X, 2019, 4, i-i.	4.1	0
432	Multidisciplinary physics in a time of coronavirus. Advances in Physics: X, 2020, 5, 1807107.	4.1	0

#	Article	IF	Citations
433	A passion for physics. Advances in Physics: X, 2021, 6, .	4.1	0
434	Application of scanning probe energy loss spectroscopy to SERS-active metal nanostructures. Journal of Physics: Conference Series, 2021, 1866, 012006.	0.4	0
435	Material-Insensitive Optical Response From Disordered Plasmonic Nanostructures. , 2021, , .		0
436	Application of Clusters to the Fabrication of Silicon Nanostructures. Springer Series in Cluster Physics, 2000, , 275-301.	0.3	0
437	Laser etching processes : Towards sub-picosecond X-UV irradiation. European Physical Journal Special Topics, 2001, 11, Pr2-499-Pr2-502.	0.2	0
438	Source UVX par gÃ©nÃ©ration d'harmoniques d'ordre Ã©levÃ© : applications potentielles Ã la physique des surfaces. European Physical Journal Special Topics, 2001, 11, Pr7-73-Pr7-76.	0.2	0
439	Three-dimensional atomic-scale structure of size-selected nanoclusters on surfaces. , 2008, , 133-134.		0
440	Electron Scattering by Oriented Molecules on Surfaces. , 1994, , 243-254.		0
441	Negative Ion Resonances in Surface Dynamics: New Results and Applications. , 1999, , 153-166.		0
442	Structure and stability of core-shell AuAg nanopartciels. , 2008, , 305-306.		0
443	Fabrication of Ordered Arrays of InP Microstructures by Wet Chemical Etching with Au Masks. Journal of Nanoscience and Nanotechnology, 2002, 2, 627-630.	0.9	0