Daniel Mario Ugarte

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8776110/publications.pdf

Version: 2024-02-01

88 papers	12,149 citations	136740 32 h-index	60497 81 g-index
90 all docs	90 docs citations	90 times ranked	9923 citing authors

#	Article	IF	Citations
1	Improving Quantitative EDS Chemical Analysis of Alloy Nanoparticles by PCA Denoising: Part I, Reducing Reconstruction Bias. Microscopy and Microanalysis, 2022, 28, 338-349.	0.2	7
2	Improving Quantitative EDS Chemical Analysis of Alloy Nanoparticles by PCA Denoising: Part II. Uncertainty Intervals. Microscopy and Microanalysis, 2022, 28, 723-731.	0.2	3
3	Quantitative Structural Analysis of AuAg Nanoparticles Using a Pair Distribution Function Based on Precession Electron Diffraction: Implications for Catalysis. ACS Applied Nano Materials, 2021, 4, 12541-12551.	2.4	6
4	Structural Analysis of Ligand-Protected Smaller Metallic Nanocrystals by Atomic Pair Distribution Function under Precession Electron Diffraction. Journal of Physical Chemistry C, 2019, 123, 19894-19902.	1.5	19
5	Analysis of structural distortion in Eshelby twisted InP nanowires by scanning precession electron diffraction. Nano Research, 2019, 12, 939-946.	5.8	3
6	Different growth regimes in InP nanowire growth mediated by Ag nanoparticles. Nanotechnology, 2017, 28, 505604.	1.3	5
7	Controlling multipolar surface plasmon excitation through the azimuthal phase structure of electron vortex beams. Physical Review B, 2016, 93, .	1.1	16
8	Interaction between lamellar twinning and catalyst dynamics in spontaneous coreâ€“shell InGaP nanowires. Nanoscale, 2015, 7, 12722-12727.	2.8	11
9	Spontaneous Periodic Diameter Oscillations in InP Nanowires: The Role of Interface Instabilities. Nano Letters, 2013, 13, 9-13.	4.5	32
10	Spatial modulation of above-the-gap cathodoluminescence in InP nanowires. Journal of Physics Condensed Matter, 2013, 25, 505303.	0.7	2
11	Correlation Between Quantum Conductance and Atomic Arrangement of Silver Atomic-Size Nanocontacts. Materials Research Society Symposia Proceedings, 2012, 1429, 7.	0.1	1
12	Size and Shape Effects on the Mechanical Deformation of 1-nm-wide Gold Nanorods. Microscopy and Microanalysis, 2012, 18, 768-769.	0.2	0
13	Correlation between quantum conductance and atomic arrangement of atomic-size silver nanowires. Journal of Applied Physics, 2012, 111, 124316.	1.1	12
14	Kinetic Effects in InP Nanowire Growth and Stacking Fault Formation: The Role of Interface Roughening. Nano Letters, 2011, 11, 1934-1940.	4.5	19
15	Mechanical Deformation of Nanoscale Metal Rods: When Size and Shape Matter. Physical Review Letters, 2011, 106, 055501.	2.9	28
16	Enhanced Eshelby Twist on Thin Wurtzite InP Nanowires and Measurement of Local Crystal Rotation. Physical Review Letters, 2011, 107, 195503.	2.9	29
17	Characterization of interface abruptness and material properties in catalytically grown IIIâ€“V nanowires: exploiting plasmon chemical shift. Nanotechnology, 2010, 21, 295701.	1.3	7
18	Temperature effects on the atomic arrangement and conductance of atomic-size gold nanowires generated by mechanical stretching. Nanotechnology, 2010, 21, 485702.	1.3	18

#	Article	IF	Citations
19	IIIâ€“V semiconductor nanowire growth: does arsenic diffuse through the metal nanoparticle catalyst?. Nanotechnology, 2009, 20, 275604.	1.3	15
20	Observation of the smallest metal nanotube with a square cross-section. Nature Nanotechnology, 2009, 4, 149-152.	15.6	50
21	Carbon Nanotubes as Reinforcement Elements of Composite Nanotools. Nano Letters, 2008, 8, 842-847.	4.5	21
22	Size Limit of Defect Formation in Pyramidal Pt Nanocontacts. Physical Review Letters, 2007, 99, 255501.	2.9	16
23	Nanomanipulation and characterisation of individual nano-objects inside a SEM. International Journal of Nanotechnology, 2007, 4, 609.	0.1	4
24	Inexpensive two-tip nanomanipulator for a SEM. Applied Surface Science, 2007, 254, 405-411.	3.1	9
25	A Simple Two-Phase Route to Silver Nanoparticles/Polyaniline Structures. Journal of Physical Chemistry B, 2006, 110, 17063-17069.	1.2	99
26	Experimental realization of suspended atomic chains composed of different atomic species. Nature Nanotechnology, 2006, 1, 182-185.	15.6	95
27	Structural and Optical Characterization of Strained Free-Standing InP Nanowires. Journal of Nanoscience and Nanotechnology, 2006, 6, 2182-2186.	0.9	17
28	Low-Cost Nanomanipulator for In Situ Experiments in a SEM. Microscopy and Microanalysis, 2006, 12, 311-316.	0.2	6
29	Real-time atomic resolution study of metal nanowires. Applied Physics A: Materials Science and Processing, 2005, 81, 1513-1518.	1.1	17
30	Computer simulations of gold nanowire formation: the role of outlayer atoms. Applied Physics A: Materials Science and Processing, 2005, 81, 1527-1531.	1.1	31
31	Influence of synthetic parameters on the size, structure, and stability of dodecanethiol-stabilized silver nanoparticles. Journal of Colloid and Interface Science, 2005, 292, 429-435.	5.0	205
32	Liquid Carbon, Carbon-Glass Beads, and the Crystallization of Carbon Nanotubes. Science, 2005, 307, 907-910.	6.0	86
33	The role of carbon contamination in metallic nanowires. Materials Research, 2004, 7, 339-342.	0.6	4
34	Contaminants in Suspended Gold Chains: AnAb InitioMolecular Dynamics Study. Physical Review Letters, 2004, 93, 216103.	2.9	32
35	On the Structural and Stability Features of Linear Atomic Suspended Chains Formed from Gold Nanowires Stretching. Nano Letters, 2004, 4, 1187-1191.	4.5	106
36	Carbon nanotube probe resolution: a quantitative analysis using Fourier Transform. Physica Status Solidi A, 2004, 201, 888-893.	1.7	9

#	Article	IF	Citations
37	Indication of Unusual Pentagonal Structures in Atomic-Size Cu Nanowires. Physical Review Letters, 2004, 93, 126103.	2.9	105
38	One-step route to iron oxide-filled carbon nanotubes and bucky-onions based on the pyrolysis of organometallic precursors. Chemical Physics Letters, 2003, 381, 541-548.	1.2	107
39	Role of V/III ratio on atomic ordering and surface morphology of InGaP layers grown by chemical beam epitaxy. Surface Science, 2003, 540, 129-135.	0.8	6
40	Evidence for Spontaneous Spin-Polarized Transport in Magnetic Nanowires. Physical Review Letters, 2003, 91, 096801.	2.9	186
41	Controlling alloy composition of InAsP self-assembled quantum dots embedded in GaAs. Journal of Applied Physics, 2003, 94, 3051-3056.	1.1	8
42	Origin of Anomalously Long Interatomic Distances in Suspended Gold Chains. Physical Review Letters, 2002, 88, 076105.	2.9	112
43	Optical and structural properties of InAsP ternary self-assembled quantum dots embedded in GaAs. Applied Physics Letters, 2002, 81, 2953-2955.	1.5	21
44	Effects of barrier alloy composition and number of stacks in the optical and structural characteristics of strain compensated InxGa1â^'xAsyP1â^'y/InzGa1â^'zAstP1â^'t/InP multiquantum wells. Journal of Applied Physics, 2002, 91, 5915-5922.	1.1	1
45	Metal nanowires: atomic arrangement and electrical transport properties. Nanotechnology, 2002, 13, 404-408.	1.3	35
46	The Role of Carbon Contamination in Suspended Gold Nanowires. Materials Research Society Symposia Proceedings, 2002, 738, 1461.	0.1	0
47	The Role of Carbon Contamination in Suspended Gold Nanowires. Materials Research Society Symposia Proceedings, 2002, 761, 1.	0.1	0
48	Atomic Arrangement and Conductance of Metal Nanowires. Physica Status Solidi (B): Basic Research, 2002, 230, 475-480.	0.7	8
49	Nanoscience and Nanotechnology Research at the Brazilian National Synchrotron Laboratory (LNLS). Physica Status Solidi (B): Basic Research, 2002, 232, 24-31.	0.7	1
50	Investigation of optical and structural properties of InxGa1â^'xAs/GaAs quantum wells grown on vicinal GaAs(001) substrates. Physica B: Condensed Matter, 2002, 311, 285-291.	1.3	2
51	Quantum conductance properties of metal nanowires. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 96, 188-192.	1.7	7
52	Step-Bunching Evidence in Strained InxGa1?xAs/GaAs Quantum Wells Grown on Vicinal (001) Substrates. Physica Status Solidi A, 2001, 187, 253-256.	1.7	1
53	Seeding of InP islands on InAs quantum dot templates. Journal of Applied Physics, 2001, 89, 6548-6550.	1.1	10
54	Inter-atomic distance contraction in thiol-passivated gold nanoparticles. Chemical Physics Letters, 2000, 323, 167-172.	1.2	87

#	Article	IF	Citations
55	Estimating nanoparticle size from diffraction measurements. Journal of Applied Crystallography, 2000, 33, 1335-1341.	1.9	199
56	Signature of Atomic Structure in the Quantum Conductance of Gold Nanowires. Physical Review Letters, 2000, 85, 4124-4127.	2.9	394
57	On three dimensional self-organization and optical properties of InAs quantum-dot multilayers. Applied Physics Letters, 2000, 76, 3400-3402.	1.5	18
58	Influence of particle size distribution on magnetic properties of nanocrystalline soft magnetic Fe/sub 86/Zr/sub 7/Cu/sub 1/B/sub 6/. IEEE Transactions on Magnetics, 2000, 36, 3430-3432.	1.2	6
59	Surface size effect on the growth mode and morphology of InP epitaxial films. Physical Review B, 2000, 62, 15409-15412.	1.1	1
60	Structure Population in Thiol-Passivated Gold Nanoparticles. Journal of Physical Chemistry B, 2000, 104, 11013-11018.	1.2	74
61	Anomalous Packing in Thin Nanoparticle Supercrystals. Physical Review Letters, 1999, 82, 5277-5280.	2.9	36
62	Electrostatic Deflections and Electromechanical Resonances of Carbon Nanotubes. Science, 1999, 283, 1513-1516.	6.0	1,790
63	Capillarity in Carbon Nanotubes. , 1999, , 128-142.		7
64	Electron field emitters based on carbon nanotube films. Advanced Materials, 1997, 9, 87-89.	11.1	179
65	Nanocapillarity and Chemistry in Carbon Nanotubes. Science, 1996, 274, 1897-1899.	6.0	525
66	ESR study of potassium-doped aligned carbon nanotubes. Physical Review B, 1996, 53, 13996-13999.	1.1	32
67	BuckyrÃ¶hren, Buckyzwiebeln und andere Verwandte der Fullerene. , 1996, , 103-121.		0
68	A Carbon Nanotube Field-Emission Electron Source. Science, 1995, 270, 1179-1180.	6.0	3,102
69	Calculations of the dynamic Debyeâ€“Scherrer diffraction patterns for small metal particles. Journal of Chemical Physics, 1995, 103, 2384-2394.	1.2	22
70	Magnetic anisotropies of aligned carbon nanotubes. Physical Review B, 1995, 52, R6963-R6966.	1.1	123
71	Aligned Carbon Nanotube Films: Production and Optical and Electronic Properties. Science, 1995, 268, 845-847.	6.0	706
72	Interstellar graphitic particles generated by annealing of nanodiamonds and their relation to the 2175 A peak carrier. Astrophysical Journal, 1995, 443, L85.	1.6	26

#	Article	IF	Citations
73	High-resolution electron microscopy and inelastic light scattering of purified multishelled carbon nanotubes. Physical Review B, 1994, 50, 15473-15476.	1.1	151
74	High-temperature behaviour of â€œfullerene blackâ€• Carbon, 1994, 32, 1245-1248.	5.4	87
75	Raman spectroscopy of closed-shell carbon particles. Chemical Physics Letters, 1993, 211, 346-352.	1.2	103
76	How to fill or empty a graphitic onion. Chemical Physics Letters, 1993, 209, 99-103.	1.2	101
77	Formation mechanism of quasi-spherical carbon particles induced by electron bombardment. Chemical Physics Letters, 1993, 207, 473-479.	1.2	147
78	Carbon onions produced by heat treatment of carbon soot and their relation to the 217.5 nm interstellar absorption feature. Chemical Physics Letters, 1993, 207, 480-486.	1.2	303
79	Revisiting the structural instability observed in small particles in the electron microscope. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1993, 28, 177-181.	1.0	7
80	Canonical Structure of Large Carbon Clusters: C _n , n > 100. Europhysics Letters, 1993, 22, 45-50.	0.7	97
81	HREM characterization of graphitic nanotubes. Microscopy Microanalysis Microstructures, 1993, 4, 505-512.	0.4	6
82	Surface- and interface-plasmon modes on small semiconducting spheres. Physical Review B, 1992, 45, 4332-4343.	1.1	105
83	Curling and closure of graphitic networks under electron-beam irradiation. Nature, 1992, 359, 707-709.	13.7	1,894
84	Morphology and structure of graphitic soot particles generated in arc-discharge C60 production. Chemical Physics Letters, 1992, 198, 596-602.	1.2	136
85	Local and surface analysis within an analytical electron microscope. Mikrochimica Acta, 1991, 104, 405-413.	2.5	0
86	Frontiers of analytical electron microscopy with special reference to cluster and interface problems. Ultramicroscopy, 1989, 29, 31-43.	0.8	27
87	High spatial resolution analytical electron microscopy studies on the Co/CeO2 system. Surface and Interface Analysis, 1988, 12, 3-10.	0.8	6
88	Flexible composites based on bidimensional nanomaterials: Eletromechanical Characterization and Applications. , 0, , .		0