Daniel Mario Ugarte

List of Publications by Year
in descending order

88	12,149	136885 32	60583 81
papers	citations	h-index	g-index

90	90	90	9923
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Carbon Nanotube Field-Emission Electron Source. Science, 1995, 270, 1179-1180.	6.0	3,102
2	Curling and closure of graphitic networks under electron-beam irradiation. Nature, 1992, 359, 707-709.	13.7	1,894
3	Electrostatic Deflections and Electromechanical Resonances of Carbon Nanotubes. Science, 1999, 283, 1513-1516.	6.0	1,790
4	Aligned Carbon Nanotube Films: Production and Optical and Electronic Properties. Science, 1995, 268, 845-847.	6.0	706
5	Nanocapillarity and Chemistry in Carbon Nanotubes. Science, 1996, 274, 1897-1899.	6.0	525
6	Signature of Atomic Structure in the Quantum Conductance of Gold Nanowires. Physical Review Letters, 2000, 85, 4124-4127.	2.9	394
7	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
8	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
9	Estimating nanoparticle size from diffraction measurements. Journal of Applied Crystallography, 2000, 33, 1335-1341.	1.9	199
10	Evidence for Spontaneous Spin-Polarized Transport in Magnetic Nanowires. Physical Review Letters, 2003, 91, 096801.	2.9	186
11	Electron field emitters based on carbon nanotube films. Advanced Materials, 1997, 9, 87-89.	11.1	179
12	High-resolution electron microscopy and inelastic light scattering of purified multishelled carbon nanotubes. Physical Review B, 1994, 50, 15473-15476.	1.1	151
13	Formation mechanism of quasi-spherical carbon particles induced by electron bombardment. Chemical Physics Letters, 1993, 207, 473-479.	1.2	147
14	Morphology and structure of graphitic soot particles generated in arc-discharge C60 production. Chemical Physics Letters, 1992, 198, 596-602.	1.2	136
15	Magnetic anisotropies of aligned carbon nanotubes. Physical Review B, 1995, 52, R6963-R6966.	1.1	123
16	Origin of Anomalously Long Interatomic Distances in Suspended Gold Chains. Physical Review Letters, 2002, 88, 076105.	2.9	112
17	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
18	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

#	Article	IF	Citations
19	Surface- and interface-plasmon modes on small semiconducting spheres. Physical Review B, 1992, 45, 4332-4343.	1.1	105
20	Indication of Unusual Pentagonal Structures in Atomic-Size Cu Nanowires. Physical Review Letters, 2004, 93, 126103.	2.9	105
21	Raman spectroscopy of closed-shell carbon particles. Chemical Physics Letters, 1993, 211, 346-352.	1.2	103
22	How to fill or empty a graphitic onion. Chemical Physics Letters, 1993, 209, 99-103.	1.2	101
23	A Simple Two-Phase Route to Silver Nanoparticles/Polyaniline Structures. Journal of Physical Chemistry B, 2006, 110, 17063-17069.	1.2	99
24	Canonical Structure of Large Carbon Clusters: C _n , n > 100. Europhysics Letters, 1993, 22, 45-50.	0.7	97
25	Experimental realization of suspended atomic chains composed of different atomic species. Nature Nanotechnology, 2006, 1, 182-185.	15.6	95
26	High-temperature behaviour of â€œfullerene blackâ€• Carbon, 1994, 32, 1245-1248.	5.4	87
27	Inter-atomic distance contraction in thiol-passivated gold nanoparticles. Chemical Physics Letters, 2000, 323, 167-172.	1.2	87
28	Liquid Carbon, Carbon-Glass Beads, and the Crystallization of Carbon Nanotubes. Science, 2005, 307, 907-910.	6.0	86
29	Structure Population in Thiol-Passivated Gold Nanoparticles. Journal of Physical Chemistry B, 2000, 104, 11013-11018.	1.2	74
30	Observation of the smallest metal nanotube with a square cross-section. Nature Nanotechnology, 2009, 4, 149-152.	15.6	50
31	Anomalous Packing in Thin Nanoparticle Supercrystals. Physical Review Letters, 1999, 82, 5277-5280.	2.9	36
32	Metal nanowires: atomic arrangement and electrical transport properties. Nanotechnology, 2002, 13, 404-408.	1.3	35
33	ESR study of potassium-doped aligned carbon nanotubes. Physical Review B, 1996, 53, 13996-13999.	1.1	32
34	Contaminants in Suspended Gold Chains: AnAb InitioMolecular Dynamics Study. Physical Review Letters, 2004, 93, 216103.	2.9	32
35	Spontaneous Periodic Diameter Oscillations in InP Nanowires: The Role of Interface Instabilities. Nano Letters, 2013, 13, 9-13.	4.5	32
36	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

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37	Enhanced Eshelby Twist on Thin Wurtzite InP Nanowires and Measurement of Local Crystal Rotation. Physical Review Letters, 2011, 107, 195503.	2.9	29
38	Mechanical Deformation of Nanoscale Metal Rods: When Size and Shape Matter. Physical Review Letters, 2011, 106, 055501.	2.9	28
39	Frontiers of analytical electron microscopy with special reference to cluster and interface problems. Ultramicroscopy, 1989, 29, 31-43.	0.8	27
40	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
41	Calculations of the dynamic Debyeâ€“Scherrer diffraction patterns for small metal particles. Journal of Chemical Physics, 1995, 103, 2384-2394.	1.2	22
42	Optical and structural properties of InAsP ternary self-assembled quantum dots embedded in GaAs. Applied Physics Letters, 2002, 81, 2953-2955.	1.5	21
43	Carbon Nanotubes as Reinforcement Elements of Composite Nanotools. Nano Letters, 2008, 8, 842-847.	4.5	21
44	Kinetic Effects in InP Nanowire Growth and Stacking Fault Formation: The Role of Interface Roughening. Nano Letters, 2011, 11, 1934-1940.	4.5	19
45	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
46	On three dimensional self-organization and optical properties of InAs quantum-dot multilayers. Applied Physics Letters, 2000, 76, 3400-3402.	1.5	18
47	Temperature effects on the atomic arrangement and conductance of atomic-size gold nanowires generated by mechanical stretching. Nanotechnology, 2010, 21, 485702.	1.3	18
48	Real-time atomic resolution study of metal nanowires. Applied Physics A: Materials Science and Processing, 2005, 81, 1513-1518.	1.1	17
49	Structural and Optical Characterization of Strained Free-Standing InP Nanowires. Journal of Nanoscience and Nanotechnology, 2006, 6, 2182-2186.	0.9	17
50	Size Limit of Defect Formation in Pyramidal Pt Nanocontacts. Physical Review Letters, 2007, 99, 255501.	2.9	16
51	Controlling multipolar surface plasmon excitation through the azimuthal phase structure of electron vortex beams. Physical Review B, 2016, 93, .	1.1	16
52	IIIâ€“V semiconductor nanowire growth: does arsenic diffuse through the metal nanoparticle catalyst?. Nanotechnology, 2009, 20, 275604.	1.3	15
53	Correlation between quantum conductance and atomic arrangement of atomic-size silver nanowires. Journal of Applied Physics, 2012, 111, 124316.	1.1	12
54	Interaction between lamellar twinning and catalyst dynamics in spontaneous coreâ€“shell InGaP nanowires. Nanoscale, 2015, 7, 12722-12727.	2.8	11

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55	Seeding of InP islands on InAs quantum dot templates. Journal of Applied Physics, 2001, 89, 6548-6550.	1.1	10
56	Carbon nanotube probe resolution: a quantitative analysis using Fourier Transform. Physica Status Solidi A, 2004, 201, 888-893.	1.7	9
57	Inexpensive two-tip nanomanipulator for a SEM. Applied Surface Science, 2007, 254, 405-411.	3.1	9
58	Atomic Arrangement and Conductance of Metal Nanowires. Physica Status Solidi (B): Basic Research, 2002, 230, 475-480.	0.7	8
59	Controlling alloy composition of InAsP self-assembled quantum dots embedded in GaAs. Journal of Applied Physics, 2003, 94, 3051-3056.	1.1	8
60	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
61	Quantum conductance properties of metal nanowires. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 96, 188-192.	1.7	7
62	Characterization of interface abruptness and material properties in catalytically grown IIIâ€“V nanowires: exploiting plasmon chemical shift. Nanotechnology, 2010, 21, 295701.	1.3	7
63	Capillarity in Carbon Nanotubes. , 1999, , 128-142.		7
64	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
65	High spatial resolution analytical electron microscopy studies on the Co/CeO2 system. Surface and Interface Analysis, 1988, 12, 3-10.	0.8	6
66	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
67	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
68	Low-Cost Nanomanipulator for In Situ Experiments in a SEM. Microscopy and Microanalysis, 2006, 12, 311-316.	0.2	6
69	HREM characterization of graphitic nanotubes. Microscopy Microanalysis Microstructures, 1993, 4, 505-512.	0.4	6
70	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
71	Different growth regimes in InP nanowire growth mediated by Ag nanoparticles. Nanotechnology, 2017, 28, 505604.	1.3	5
72	The role of carbon contamination in metallic nanowires. Materials Research, 2004, 7, 339-342.	0.6	4

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73	Nanomanipulation and characterisation of individual nano-objects inside a SEM. International Journal of Nanotechnology, 2007, 4, 609.	0.1	4
74	Analysis of structural distortion in Eshelby twisted InP nanowires by scanning precession electron diffraction. Nano Research, 2019, 12, 939-946.	5.8	3
75	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
76	Investigation of optical and structural properties of InxGa1âˆ’xAs/GaAs quantum wells grown on vicinal GaAs(001) substrates. Physica B: Condensed Matter, 2002, 311, 285-291.	1.3	2
77	Spatial modulation of above-the-gap cathodoluminescence in InP nanowires. Journal of Physics Condensed Matter, 2013, 25, 505303.	0.7	2
78	Surface size effect on the growth mode and morphology of InP epitaxial films. Physical Review B, 2000, 62, 15409-15412.	1.1	1
79	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
80	Effects of barrier alloy composition and number of stacks in the optical and structural characteristics of strain compensated InxGa1âˆ’xAsyP1âˆ’y/InzGa1âˆ’zAstP1âˆ’t/InP multiquantum wells. Journal of Applied Physics, 2002, 91, 5915-5922.	1.1	1
81	Nanoscience and Nanotechnology Research at the Brazilian National Synchrotron Laboratory (LNLS). Physica Status Solidi (B): Basic Research, 2002, 232, 24-31.	0.7	1
82	Correlation Between Quantum Conductance and Atomic Arrangement of Silver Atomic-Size Nanocontacts. Materials Research Society Symposia Proceedings, 2012, 1429, 7.	0.1	1
83	Local and surface analysis within an analytical electron microscope. Mikrochimica Acta, 1991, 104, 405-413.	2.5	0
84	The Role of Carbon Contamination in Suspended Gold Nanowires. Materials Research Society Symposia Proceedings, 2002, 738, 1461.	0.1	0
85	The Role of Carbon Contamination in Suspended Gold Nanowires. Materials Research Society Symposia Proceedings, 2002, 761, 1.	0.1	0
86	Size and Shape Effects on the Mechanical Deformation of 1-nm-wide Gold Nanorods. Microscopy and Microanalysis, 2012, 18, 768-769.	0.2	0
87	BuckyrÃ¶hren, Buckyzwiebeln und andere Verwandte der Fullerene. , 1996, , 103-121.		0
88	Flexible composites based on bidimensional nanomaterials: Eletromechanical Characterization and Applications. , 0, , .		0