

Arturo Ponce

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/253224/publications.pdf>

Version: 2024-02-01

168
papers

4,913
citations

186265

28
h-index

98798

67
g-index

173
all docs

173
docs citations

173
times ranked

8062
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards three-dimensional nanoarchitectures: highly ordered bi-layer assembly of tailored magnetic nanowire arrays via template-assisted electrodeposition. <i>Materials Advances</i> , 2022, 3, 4548-4555.	5.4	3
2	On the Mechanism Controlling the Relative Orientation of Graphene Bi-Layers. <i>Symmetry</i> , 2022, 14, 719.	2.2	1
3	Advances in the electron diffraction characterization of atomic clusters and nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 311-325.	4.6	13
4	Bi ₂ O ₃ nano-flakes as a cost-effective antibacterial agent. <i>Nanoscale Advances</i> , 2021, 3, 4106-4118.	4.6	21
5	Surface structural characteristics of some colloidal lipid systems used in pharmaceuticals. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 62, 102345.	3.0	4
6	An Automated V-I Acquisition System for Microbolometer Array with FPGA-based Drive. , 2021, , .		0
7	In-Situ Magnetization Reversal Mechanism in Ni Nanowires Investigated by Electron Holography. <i>Microscopy and Microanalysis</i> , 2021, 27, 330-332.	0.4	1
8	Structural defects in ZnO thin films grown by atomic layer deposition at low temperatures. <i>Microscopy and Microanalysis</i> , 2021, 27, 2660-2662.	0.4	0
9	Low-defect-density ZnO homoepitaxial films grown by low-temperature ALD. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	4
10	Comparative Study on the Quality of Microcrystalline and Epitaxial Silicon Films Produced by PECVD Using Identical SiF ₄ Based Process Conditions. <i>Materials</i> , 2021, 14, 6947.	2.9	2
11	Study on the photocatalytic activity of titanium dioxide nanostructures: Nanoparticles, nanotubes and ultra-thin films. <i>Catalysis Today</i> , 2020, 341, 2-12.	4.4	35
12	Strong spin-orbit interactions in a correlated two-dimensional electron system formed in SrTi ₃ O ₃ films grown epitaxially on		

#	ARTICLE	IF	CITATIONS
19	Advantages of Precession Electron Diffraction in the Study of Small Metallic Nanoparticles. <i>Microscopy and Microanalysis</i> , 2019, 25, 1926-1927.	0.4	2
20	Structural Analysis of Ligand-Protected Smaller Metallic Nanocrystals by Atomic Pair Distribution Function under Precession Electron Diffraction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19894-19902.	3.1	19
21	Toward Smaller Aqueous-Phase Plasmonic Gold Nanoparticles: High-Stability Thiolate-Protected ~ 4.5 nm Cores. <i>Langmuir</i> , 2019, 35, 10610-10617.	3.5	13
22	Gold Palladium Thin Films: Multi-twinned Nanoparticles to Five-fold Annealing Twins. <i>Microscopy and Microanalysis</i> , 2019, 25, 2344-2345.	0.4	0
23	Synergistic photoluminescent interaction of Si and CdTe quantum dots. <i>Microsystem Technologies</i> , 2019, , 1.	2.0	1
24	Misorientation dependence grain boundary complexions in $\langle 111 \rangle$ symmetric tilt Al grain boundaries. <i>Acta Materialia</i> , 2019, 181, 216-227.	7.9	11
25	Semiconductor behavior of pentagonal silver nanowires measured under mechanical deformation. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	3
26	Alloying and Annealing Effects on Grain Boundary Character Evolution of Al-alloy 7075 Thin Films: An ACOM-TEM Analysis. <i>Minerals, Metals and Materials Series</i> , 2019, , 109-119.	0.4	1
27	Fivefold annealing twin in nanocrystalline Au/Pd film. <i>Materials Letters</i> , 2019, 244, 88-91.	2.6	14
28	Single nanowire measurements of room temperature ferromagnetism in FeSi nanowires and the effects of Mn-doping. <i>Nanotechnology</i> , 2019, 30, 014001.	2.6	2
29	In-situ magnetization/heating electron holography to study the magnetic ordering in arrays of nickel metallic nanowires. <i>AIP Advances</i> , 2018, 8, 056813.	1.3	7
30	Design of a cathodoluminescence image generator using a Raspberry Pi coupled to a scanning electron microscope. <i>Review of Scientific Instruments</i> , 2018, 89, 013702.	1.3	2
31	High cubic phase purity and growth mechanism of cubic InN thin-films by Migration Enhanced Epitaxy. <i>Thin Solid Films</i> , 2018, 647, 64-69.	1.8	3
32	Microstructural Analysis of Polycrystalline Er:YAG using Automated Crystal Orientation Mapping. <i>Microscopy and Microanalysis</i> , 2018, 24, 218-219.	0.4	1
33	Electron Holography, a Routine Application Workflow. <i>Microscopy and Microanalysis</i> , 2018, 24, 1462-1463.	0.4	2
34	Synthesis, Mass Spectrometry, and Atomic Structural Analysis of $\text{Au}_{2000}(\text{SR})_{290}$ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26733-26738.	3.1	20
35	High Curie temperature CoSi nanowires by Mn-doping. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	1
36	Prominence of fusion temperature and engineering heteroatoms on multifarious emissive shifts in carbon dots. <i>Journal of Colloid and Interface Science</i> , 2018, 528, 237-247.	9.4	5

#	ARTICLE	IF	CITATIONS
37	Resonant tunneling MIIIS diode based on intrinsic quantum-well formation of ultra-thin atomic layered films after band-offset engineering. Applied Surface Science, 2018, 458, 166-171.	6.1	1
38	Rectifying Characteristics of Resonant Tunneling MIS Devices Using Ultra-Thin High-k Oxides Deposited by ALD. IEEE Electron Device Letters, 2018, 39, 1461-1464.	3.9	2
39	The Evolution of Growth, Crystal Orientation, and Grain Boundaries Disorientation Distribution in Gold Thin Films. Crystal Research and Technology, 2018, 53, 1800038.	1.3	16
40	Gate modeling of metal-insulator-semiconductor devices based on ultra-thin atomic-layer deposited TiO ₂ . Journal of Materials Science: Materials in Electronics, 2018, 29, 15761-15769.	2.2	5
41	Study of Vortex State in Permalloy Plates Using Optimized Electron Holography. Microscopy and Microanalysis, 2018, 24, 952-953.	0.4	1
42	Tribological performance of TiN and TiCN coatings on a working tool steel. Journal of Mechanical Science and Technology, 2018, 32, 3659-3666.	1.5	5
43	Calcium Carbonate Crystal Shapes Mediated by Intramineral Proteins from Eggshells of Ratite Birds and Crocodiles. Implications to the Eggshell's Formation of a Dinosaur of 70 Million Years Old. Crystal Growth and Design, 2018, 18, 5663-5673.	3.0	6
44	Comparison of the thickness determined by Fresnel contrast and Rutherford backscattering spectrometry in ultra-thin layers. , 2018, , 305-308.		0
45	Silver/zinc oxide self-assembled nanostructured bolometer. Infrared Physics and Technology, 2017, 81, 266-270.	2.9	4
46	Size distribution and visible luminescence of silicon nanoparticles embedded in SiN _x thin film: Role of RF power in PECVD. Functional Materials Letters, 2017, 10, 1750014.	1.2	5
47	Nanowire Y-junction formation during self-faceting on high-index GaAs substrates. RSC Advances, 2017, 7, 17813-17818.	3.6	4
48	Controlling the Number of Atoms on Catalytic Metallic Clusters. Studies in Surface Science and Catalysis, 2017, , 185-220.	1.5	4
49	Evaporation of Gold on NaCl Surfaces as a Way To Control Spatial Distribution of Nanoparticles: Insights on the Shape and Crystallographic Orientation. Crystal Growth and Design, 2017, 17, 6062-6070.	3.0	5
50	Phase Identification of III-N Thin Films Grown by Molecular Beam Epitaxy and Migration Enhanced Epitaxy using Precession Electron Diffraction. Microscopy and Microanalysis, 2017, 23, 1484-1485.	0.4	0
51	Magnetic ordering in 45 nm-diameter multisegmented FeGa/Cu nanowires: single nanowires and arrays. Journal of Materials Chemistry C, 2017, 5, 7546-7552.	5.5	18
52	Morphology visualization of irregular shape bacteria by electron holography and tomography. Microscopy Research and Technique, 2017, 80, 1249-1255.	2.2	1
53	Complex Three-Dimensional Magnetic Ordering in Segmented Nanowire Arrays. ACS Nano, 2017, 11, 8311-8319.	14.6	34
54	Fast Scanning Electron Diffraction and Electron Holography as Methods to Acquire Structural Information on Au ₁₀₂ (p-MBA) ₄₄ Nanoclusters. Microscopy and Microanalysis, 2016, 22, 528-529.	0.4	1

#	ARTICLE	IF	CITATIONS
55	SERS and integrative imaging upon internalization of quantum dots into human oral epithelial cells. <i>Journal of Biophotonics</i> , 2016, 9, 683-693.	2.3	12
56	High-Concentration Aqueous Dispersions of Nanoscale 2D Materials Using Nonionic, Biocompatible Block Copolymers. <i>Small</i> , 2016, 12, 294-300.	10.0	47
57	Electrical Probing of Silver Nanowires in situ Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 834-835.	0.4	0
58	Nano-manipulation of Ag/ZnO Nanoantennas for in-situ TEM Electrical Measurements. <i>Microscopy and Microanalysis</i> , 2016, 22, 842-843.	0.4	0
59	Controlled Magnetization by Electron Holography of Polycrystalline Cobalt Nanowires. <i>Microscopy and Microanalysis</i> , 2016, 22, 1694-1695.	0.4	0
60	Structural damage reduction in protected gold clusters by electron diffraction methods. <i>Advanced Structural and Chemical Imaging</i> , 2016, 2, 12.	4.0	5
61	Structural analysis of the epitaxial interface Ag/ZnO in hierarchical nanoantennas. <i>Applied Physics Letters</i> , 2016, 109, 153104.	3.3	12
62	High-resolution analytical imaging and electron holography of magnetite particles in amyloid cores of Alzheimer's disease. <i>Scientific Reports</i> , 2016, 6, 24873.	3.3	103
63	SERS-active Au/SiO ₂ clouds in powder for rapid ex vivo breast adenocarcinoma diagnosis. <i>Biomedical Optics Express</i> , 2016, 7, 2407.	2.9	7
64	Structure Determination of Superatom Metallic Clusters Using Rapid Scanning Electron Diffraction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1902-1908.	3.1	12
65	A stable multiply twinned decahedral gold nanoparticle with a barrel-like shape. <i>Surface Science</i> , 2016, 644, 80-85.	1.9	18
66	In situ transmission electron microscopy mechanical deformation and fracture of a silver nanowire. <i>Scripta Materialia</i> , 2016, 113, 63-67.	5.2	17
67	Mapping the magnetic and crystal structure in cobalt nanowires. <i>Journal of Applied Physics</i> , 2015, 118, 024302.	2.5	34
68	Crystal orientation mapping on metallic nanoparticles by electron diffraction methods. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s376-s376.	0.1	0
69	On the Weak Forces on Nanoparticles. <i>Microscopy and Microanalysis</i> , 2015, 21, 955-956.	0.4	1
70	TEM In situ Plastic Deformation of Silver Nanowires. <i>Microscopy and Microanalysis</i> , 2015, 21, 941-942.	0.4	0
71	Precession Electron Diffraction and Orientation Phase Mapping of Assembled Ag/ZnO Nanoantennas. <i>Microscopy and Microanalysis</i> , 2015, 21, 1461-1462.	0.4	0
72	Crystalline Phase Mapping Associated to the Magnetic Flux in Cobalt Nanowires. <i>Microscopy and Microanalysis</i> , 2015, 21, 1971-1972.	0.4	0

#	ARTICLE	IF	CITATIONS
73	Synthesis of borophenes: Anisotropic, two-dimensional boron polymorphs. <i>Science</i> , 2015, 350, 1513-1516.	12.6	2,047
74	Kinematics of gold nanoparticles manipulation in situ transmission electron microscopy. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	3
75	Electric radiation mapping of silver/zinc oxide nanoantennas by using electron holography. <i>Journal of Applied Physics</i> , 2015, 117, 034306.	2.5	9
76	Resonance properties of Ag-ZnO nanostructures at terahertz frequencies. <i>Optics Express</i> , 2015, 23, 25111.	3.4	3
77	Structural Analysis of AuPdAu Nanocubes via Aberration-Corrected STEM and Nanobeam Diffraction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24621-24626.	3.1	5
78	As ₄ overpressure effects on the phase purity of cubic GaN layers grown on GaAs substrates by RF-MBE. <i>Applied Surface Science</i> , 2015, 353, 588-593.	6.1	15
79	Quantitative magnetometry analysis and structural characterization of multisegmented cobalt-nickel nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 379, 294-299.	2.3	16
80	Elasticity of MoS ₂ Sheets by Mechanical Deformation Observed by in Situ Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 710-715.	3.1	59
81	Deposition, opto-electronic and structural characterization of polymorphous silicon thin films to be applied in a solar cell structure. <i>Materials Science in Semiconductor Processing</i> , 2015, 30, 85-91.	4.0	11
82	Crystalline and narrow band gap semiconductor BaZrO ₃ : Bi ³⁺ /Si synthesized by microwave-hydrothermal synthesis. <i>Catalysis Today</i> , 2015, 250, 95-101.	4.4	18
83	Nanodomain induced anomalous magnetic and electronic transport properties of LaBaCo ₂ O _{5.5+δ} highly epitaxial thin films. <i>Journal of Applied Physics</i> , 2014, 115, 024301.	2.5	10
84	New insights into the properties and interactions of carbon chains as revealed by HRTEM and DFT analysis. <i>Carbon</i> , 2014, 66, 436-441.	10.3	58
85	Thickness sorting of two-dimensional transition metal dichalcogenides via copolymer-assisted density gradient ultracentrifugation. <i>Nature Communications</i> , 2014, 5, 5478.	12.8	126
86	Structural order in ultrathin films of the monolayer protected clusters based upon 4 nm gold nanocrystals: an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18098-18104.	2.8	8
87	Influence of Stoichiometry on the Optical and Electrical Properties of Chemical Vapor Deposition Derived MoS ₂ . <i>ACS Nano</i> , 2014, 8, 10551-10558.	14.6	281
88	Calibration for medium resolution off-axis electron holography using a flexible dual-lens imaging system in a JEOL ARM 200F microscope. <i>Ultramicroscopy</i> , 2014, 147, 44-50.	1.9	11
89	The Structure and Properties of Amorphous Indium Oxide. <i>Chemistry of Materials</i> , 2014, 26, 5401-5411.	6.7	179
90	Analysis of electron beam damage of exfoliated MoS ₂ sheets and quantitative HAADF-STEM imaging. <i>Ultramicroscopy</i> , 2014, 146, 33-38.	1.9	63

#	ARTICLE	IF	CITATIONS
91	Precession electron diffraction-assisted crystal phase mapping of metastable $\text{c}\text{-}\text{GaN}$ films grown on (001) GaAs. <i>Microscopy Research and Technique</i> , 2014, 77, 980-985.	2.2	17
92	Characterization of Metallic and Bimetallic Nanoparticles by Off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2014, 20, 290-291.	0.4	0
93	Study of Au/Pd and Au/Co Bimetallic Nanoparticles Using Aberration Corrected STEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 884-885.	0.4	0
94	$\text{CuS}_{2\text{-}}\text{Passivated Au-Core, Au}_{3\text{-}}\text{Cu-Shell Nanoparticles Analyzed by Atomistic-Resolution Cs-Corrected STEM}$. <i>Langmuir</i> , 2013, 29, 9231-9239.	3.5	24
95	Origin and shape evolution of core-shell nanoparticles in Au-Pd: from few atoms to high Miller index facets. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	22
96	Experimental techniques for structural characterization. , 2013, , 113-145.		3
97	Strain-release mechanisms in bimetallic core-shell nanoparticles as revealed by Cs-corrected STEM. <i>Surface Science</i> , 2013, 609, 161-166.	1.9	56
98	Electroplating and magnetostructural characterization of multisegmented $\text{Co}_{54}\text{Ni}_{46}/\text{Co}_{85}\text{Ni}_{15}$ nanowires from single electrochemical bath in anodic alumina templates. <i>Nanoscale Research Letters</i> , 2013, 8, 263.	5.7	54
99	Structure of the Thiolated Au_{130} Cluster. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10470-10476.	2.5	64
100	Synthesis of Magnetic CuNi Nanoalloys by Sol-Gel-Based Pechini Method. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 4522-4524.	2.1	8
101	High Efficiency Hybrid Silicon Nanopillar-Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9620-9627.	8.0	102
102	Trimetallic nanostructures: the case of AgPd-Pt multiply twinned nanoparticles. <i>Nanoscale</i> , 2013, 5, 12456.	5.6	44
103	Determination of the surface morphology of gold-decahedra nanoparticles using an off-axis electron holography dual-lens imaging system. <i>Micron</i> , 2013, 54-55, 82-86.	2.2	9
104	Advanced microscopy of star-shaped gold nanoparticles and their adsorption-uptake by macrophages. <i>Metallomics</i> , 2013, 5, 242.	2.4	48
105	STEM Electron Diffraction and High-Resolution Images Used in the Determination of the Crystal Structure of the $\text{Au}_{144}(\text{SR})_{60}$ Cluster. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 975-981.	4.6	122
106	Direct observation of liquid-like behavior of a single Au grain boundary. <i>Nanoscale</i> , 2013, 5, 6333.	5.6	12
107	Advanced Methods of Electron Microscopy in Catalysis Research. <i>Advances in Imaging and Electron Physics</i> , 2013, , 279-342.	0.2	2
108	Towards high efficiency multi-junction solar cells grown on InP Substrates. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
109	Structure and composition of Au/Co magneto-plasmonic nanoparticles. MRS Communications, 2013, 3, 177-183.	1.8	25
110	Chemical Modification of Carbon Nanofibers with Plasma of Acrylic Acid. Plasma Processes and Polymers, 2013, 10, 627-633.	3.0	15
111	Synthesis and Characterization of Alloys and Bimetallic Nanoparticles of CuNi Prepared by Sol-Gel Method. Materials Research Society Symposia Proceedings, 2012, 1479, 9-14.	0.1	4
112	Atomic Resolution in MoS ₂ Few Layered using Cs-corrected STEM at 80 kV. Microscopy and Microanalysis, 2012, 18, 1440-1441.	0.4	0
113	Twinned Nanoparticles Combine High Strength with High Malleability. Microscopy and Microanalysis, 2012, 18, 748-749.	0.4	0
114	Characterization of heteroepitaxial multiferroic interface BiFeO ₃ /SrTiO ₃ /Si by Cs-corrected STEM. Microscopy and Microanalysis, 2012, 18, 1448-1449.	0.4	0
115	Study of Core-Shell Au-Pd Nanocubes. Microscopy and Microanalysis, 2012, 18, 1754-1755.	0.4	0
116	TEM Examination of MWCNTs Oxidized by Mild Experimental Conditions. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 49-55.	2.1	19
117	<i>In situ</i> TEM study of mechanical behaviour of twinned nanoparticles. Philosophical Magazine, 2012, 92, 4437-4453.	1.6	24
118	Atomic Resolution Imaging of Polyhedral PtPd Core-Shell Nanoparticles by Cs-Corrected STEM. Journal of Physical Chemistry C, 2012, 116, 23596-23602.	3.1	37
119	Scanning Transmission Electron Microscopy Methods for the Analysis of Nanoparticles. Methods in Molecular Biology, 2012, 906, 453-471.	0.9	24
120	Si Nanocrystals Deposited by HFCVD. Solid State Phenomena, 2012, 194, 204-208.	0.3	1
121	Morphological, compositional, structural, and optical properties of Si-nc embedded in SiO _x films. Nanoscale Research Letters, 2012, 7, 604.	5.7	49
122	Imaging interactions of metal oxide nanoparticles with macrophage cells by ultra-high resolution scanning electron microscopy techniques. Integrative Biology (United Kingdom), 2012, 4, 1358.	1.3	41
123	Synthesis, optical and structural properties of smectic liquid crystal (cholesteryl)benzoate-ethynylene oligomers and polymer. Journal of Materials Chemistry, 2012, 22, 3770.	6.7	20
124	Nanocomposites of Silver Nanowires with a Fluorescent Poly(phenyleneethynylene): Morphological Implications for Photovoltaic Devices. Journal of Advanced Microscopy Research, 2012, 7, 158-169.	0.3	2
125	Structural and Optical Properties of SiO _x Films Deposited by HFCVD. Procedia Engineering, 2011, 25, 304-308.	1.2	7
126	Structure and catalytic properties of hexagonal molybdenum disulfide nanoplates. Catalysis Science and Technology, 2011, 1, 1024.	4.1	34

#	ARTICLE	IF	CITATIONS
127	Structural and optical properties of GaN thin films grown on Al ₂ O ₃ substrates by MOCVD at different reactor pressures. <i>Applied Surface Science</i> , 2011, 258, 1267-1271.	6.1	10
128	Experimental Evidence of Icosahedral and Decahedral Packing in One-Dimensional Nanostructures. <i>ACS Nano</i> , 2011, 5, 6272-6278.	14.6	61
129	Fluorescent core-sheath fibers by electrospinning of a phenyleneethynylene/poly(styrene-co-maleimide) blend. <i>Polymer</i> , 2011, 52, 5326-5334.	3.8	10
130	Surface Modification of Nanoclays by Plasma Polymerization of Ethylene. <i>Plasma Processes and Polymers</i> , 2011, 8, 842-849.	3.0	20
131	Variation in the structure and optical properties of polymorphous silicon thin films using dichlorosilane as silicon precursor. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 850-853.	0.8	5
132	Structure and Optical Properties of Silicon Nanocrystals Embedded in Amorphous Silicon Thin Films Obtained by PECVD. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-9.	2.7	9
133	Elemental Analysis of a Heterogeneous Polymeric System by EDS: Detection of the Compatibilizer Agent Containing Si Atoms and Silver Nano-Particles (AgNPAs) in High Impact Polystyrene. <i>Materials Science Forum</i> , 2010, 644, 21-24.	0.3	0
134	Harvesting single ferroelectric domain stressed nanoparticles for optical and ferroic applications. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	45
135	Improved Holographic Beam Coupling Through Selective Harvesting of Single Domain Ferroelectric Nanoparticles. , 2010, , .		0
136	Nanocoating on Carbon Nanofibers by Plasma Polymerization of Ethylene Gas. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1204, 1.	0.1	0
137	Nanosilicon Crystallite Embedded into Amorphous Silicon Matrix: Polymorphous Silicon Thin Film, Obtained by Plasma Enhanced Chemical Vapor Deposition. <i>Microscopy and Microanalysis</i> , 2009, 15, 1258-1259.	0.4	0
138	Polymorphous silicon thin films obtained by plasma-enhanced chemical vapor deposition using dichlorosilane as silicon precursor. <i>Nanotechnology</i> , 2009, 20, 245604.	2.6	27
139	Strong white and blue photoluminescence from silicon nanocrystals in SiN _x grown by remote PECVD using SiCl ₄ /NH ₃ . <i>Nanotechnology</i> , 2007, 18, 155704.	2.6	48
140	Excitons in coupled InAs/InP self-assembled quantum wires. <i>Physical Review B</i> , 2007, 75, .	3.2	25
141	Mechanosynthesis of lanthanum manganite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 454-455, 69-74.	5.6	19
142	Electrical and optical properties of C ₄₆ H ₂₂ N ₈ O ₄ KM (MCo, Fe, Pb) molecular-material thin films prepared by the vacuum thermal evaporation technique. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 66, 561-567.	3.9	5
143	Structural evolution of nanocrystalline silicon studied by high resolution transmission electron microscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 1458-1461.	0.8	5
144	Photoluminescence properties of SiN _x /Si amorphous multilayer structures grown by plasma-enhanced chemical vapor deposition. <i>Journal of Luminescence</i> , 2006, 121, 349-352.	3.1	16

#	ARTICLE	IF	CITATIONS
145	New Instrumentation for TEM Electron Diffraction Structure Analysis: Electron Diffractometry Combined with Beam Precession. , 2006, , 169-183.		2
146	Stacking of InAs/InP(001) quantum wires studied by in situ stress measurements: Role of inhomogeneous stress fields. Applied Physics Letters, 2004, 84, 4723-4725.	3.3	31
147	Emission wavelength engineering of InAs/InP(001) quantum wires. European Physical Journal B, 2004, 40, 433-437.	1.5	12
148	Crystalline Inclusions Formed in C+N+BF ₂ Coimplanted on Silicon (111). Mikrochimica Acta, 2004, 145, 165-169.	5.0	0
149	Size control of InAs/InP(001) quantum wires by tailoring As exchange. Applied Physics Letters, 2004, 85, 1424-1426.	3.3	38
150	N+BF ₂ and N+C+BF ₂ high-dose co-implantation in silicon. Applied Physics A: Materials Science and Processing, 2003, 76, 791-800.	2.3	3
151	Size self-filtering effect in vertical stacks of InAs/InP self-assembled quantum wires. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 174-176.	2.7	3
152	High Reflectivity AlGaIn/AlN DBR Mirrors Grown by PA-MBE. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 258-262.	0.8	8
153	Transmission electron microscopy study of simultaneous high-dose C++N+ co-implantation into (111)Si. Thin Solid Films, 2003, 426, 16-30.	1.8	3
154	HRTEM study of Al _x Ga _{1-x} N/AlN DBR mirrors. Diamond and Related Materials, 2003, 12, 1178-1181.	3.9	5
155	Structural Study of GaN Layers Grown on Carbonized Si(111) Substrates. Materials Science Forum, 2003, 433-436, 1003-0.	0.3	0
156	Size and critical thickness evolution during growth of stacked layers of InAs/InP(001) quantum wires studied by in situ stress measurements. Materials Research Society Symposia Proceedings, 2003, 794, 154.	0.1	1
157	Size-filtering effects by stacking InAs/InP (001) self-assembled quantum wires into multilayers. Physical Review B, 2002, 65, .	3.2	25
158	Filtering Study of Threading Dislocations in AlN Buffered MBE GaN/Sapphire Using Single and Multiple High Temperature AlN Intermediate Layers. Physica Status Solidi A, 2002, 192, 424-429.	1.7	0
159	Effect of High Temperature Single and Multiple AlN Intermediate Layers on N-polar and Ga-polar GaN Grown by Molecular Beam Epitaxy. Materials Research Society Symposia Proceedings, 2001, 693, 459.	0.1	1
160	POOLE-FRENKEL ELECTRICAL CONDUCTION IN SILICON OXYNITRIDE DEPOSITED BY LOW PRESSURE CHEMICAL VAPOUR DEPOSITION. Modern Physics Letters B, 2001, 15, 621-624.	1.9	1
161	Structural Characterization of Poly(Sodium 4-Styrene Sulfonate)/CdS Semiconductor Nanoparticle Composites. Materials Science Forum, 0, 644, 123-127.	0.3	0
162	On the Influence of Silver Nanoparticles Size in the Electrical Conductivity of PEDOT: PSS. Materials Science Forum, 0, 644, 85-90.	0.3	36

#	ARTICLE	IF	CITATIONS
163	TEM Characterization on the Nanocomposite Al 7075 and Silver Nanoparticles Synthesized by Powder Metallurgy. Materials Science Forum, 0, 644, 9-12.	0.3	2
164	Changing the Surface Characteristics of CNF, from Hydrophobic to Hydrophilic, via Plasma Polymerization with Acrylic Acid. Journal of Nano Research, 0, 9, 45-53.	0.8	8
165	Mapping the magnetic and crystal structure in cobalt nanowires. , 0, .		1
166	Misorientation Dependence Grain Boundary Complexions in Al Alloy Thin Films. SSRN Electronic Journal, 0, , .	0.4	0
167	Magnetic Vortex Domain Wall Observation on Polycrystalline Imperfect Ironâ€Cobalt Alloy Nanowires Growing on 1050 Aluminum. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100265.	1.8	1
168	Effects of heavy Si doping on the structural and optical properties of n-GaN/AlN/Si(111) heterostructures. Materials Research Express, 0, , .	1.6	7