Francesca Peiro

List of Publications by Year in Descending Order

276 papers	6,902 citations	40 h-index	74 g-index
294 ext. papers	7,442 ext. citations	4.6 avg, IF	5.21 L-index

#	Paper	IF	Citations
276	Strategies for EELS Data Analysis. Introducing UMAP and HDBSCAN for Dimensionality Reduction and Clustering.. *Microscopy and Microanalysis*, **2022**, 28, 109-122	0.5	0
275	WhatEELS. A python-based interactive software solution for ELNES analysis combining clustering and NLLS. *Ultramicroscopy*, **2022**, 232, 113403	3.1	1
274	Direct Measurement of Oxygen Mass Transport at the Nanoscale. *Advanced Materials*, **2021**, 33, e2105622	24	2
273	Support vector machine for EELS oxidation state determination. *Ultramicroscopy*, **2021**, 221, 113190	3.1	2
272	Electron Tomography. *Springer Series in Materials Science*, **2021**, 257-283	0.9	
271	Mapping the Magnetic Coupling of Self-Assembled FeO Nanocubes by Electron Holography. *Materials*, **2021**, 14,	3.5	1
270	Tailoring the Transport Properties of Mesoporous Doped Cerium Oxide for Energy Applications. *Journal of Physical Chemistry C*, **2021**, 125, 16451-16463	3.8	1
269	Direct Evidence of a Graded Magnetic Interface in Bimagnetic Core/Shell Nanoparticles Using Electron Magnetic Circular Dichroism (EMCD). *Nano Letters*, **2021**, 21, 6923-6930	11.5	2
268	Fast-ADT: A fast and automated electron diffraction tomography setup for structure determination and refinement. *Ultramicroscopy*, **2020**, 211, 112951	3.1	18
267	Structural and Magnetic Implications of Transition Metal Migration within Octahedral Core–Shell Nanocrystals. *Chemistry of Materials*, **2020**, 32, 10435-10446	9.6	8
266	Reliable Characterization of Organic & Pharmaceutical Compounds with High Resolution Monochromated EEL Spectroscopy. *Polymers*, **2020**, 12,	4.5	2
265	Grain Boundaries: Engineering Transport in Manganites by Tuning Local Nonstoichiometry in Grain Boundaries (Adv. Mater. 4/2019). *Advanced Materials*, **2019**, 31, 1970026	24	2
264	Low-loss EELS methods. *Advances in Imaging and Electron Physics*, **2019**, 49-77	0.2	0
263	Precise Size Control of the Growth of FeO Nanocubes over a Wide Size Range Using a Rationally Designed One-Pot Synthesis. *ACS Nano*, **2019**, 13, 7716-7728	16.7	41
262	Er-doped Si-nc/SiO2 multilayer. *Advances in Imaging and Electron Physics*, **2019**, 159-173	0.2	
261	DFT modeling of wurtzite III-nitride ternary alloys. *Advances in Imaging and Electron Physics*, **2019**, 79-99	0.2	1
260	Multiple InGaN QW heterostructure. *Advances in Imaging and Electron Physics*, **2019**, 135-158	0.2	

259	Independent Tuning of Optical Transparency Window and Electrical Properties of Epitaxial SrVO3 Thin Films by Substrate Mismatch. *Advanced Functional Materials*, **2019**, 29, 1904238	15.6	15
258	Facile and Efficient Atomic Hydrogenation Enabled Black TiO2 with Enhanced Photo-Electrochemical Activity via a Favorably Low-Energy-Barrier Pathway. *Advanced Energy Materials*, **2019**, 9, 1900725	21.8	13
257	Zinc blende and wurtzite CoO polymorph nanoparticles: Rational synthesis and commensurate and incommensurate magnetic order. *Applied Materials Today*, **2019**, 16, 322-331	6.6	3
256	Si-NCs embedded in dielectric matrices. *Advances in Imaging and Electron Physics*, **2019**, 175-203	0.2	
255	AlN/GaN and InAlN/GaN DBRs. *Advances in Imaging and Electron Physics*, **2019**, 209, 101-133	0.2	
254	Sphericity and roundness computation for particles using the extreme vertices model. *Journal of Computational Science*, **2019**, 30, 28-40	3.4	33
253	Engineering Transport in Manganites by Tuning Local Nonstoichiometry in Grain Boundaries. *Advanced Materials*, **2019**, 31, e1805360	24	16
252	Metal Oxide Aerogels with Controlled Crystallinity and Faceting from the Epoxide-Driven Cross-Linking of Colloidal Nanocrystals. *ACS Applied Materials & Interfaces*, **2018**, 10, 16041-16048	9.5	9
251	Effect of Si3N4-Mediated Inversion Layer on the Electroluminescence Properties of Silicon Nanocrystal Superlattices. *Advanced Electronic Materials*, **2018**, 4, 1700666	6.4	8
250	Green Electroluminescence of Al/Tb/Al/SiO2 Devices Fabricated by Electron Beam Evaporation. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700451	1.6	1
249	Unvealing GaN Polytypism in Distributed GaN/InAlN Bragg Reflectors Through HRTEM Image Simulation. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1800218	1.6	1
248	Electrostatic-Driven Gelation of Colloidal Nanocrystals. *Langmuir*, **2018**, 34, 9167-9174	4	9
247	Quasi-parallel precession diffraction: Alignment method for scanning transmission electron microscopes. *Ultramicroscopy*, **2018**, 193, 39-51	3.1	5
246	Modelling and HRTEM computer simulation of facetting of SnO2 nanostructures deposited by spray pyrolysis on glass substrates **2018**, 79-82		
245	Effects of in-situ and ex-situ reduction of Pd/SnO2 studied by HRTEM **2018**, 73-76		
244	Evolution of self-organised nanometric Fe islands over MgO buffered (001)GaAs substrates **2018**, 149-152		
243	High resolution electron microscopy analysis of Pt-nanoparticles embedded on crystalline TiO2 **2018**, 69-72		
242	Intimate morphology of Au-nGaN contacts for the configuration of near ideal Schottky diodes **2018** , 463-466		

241	Clustering analysis strategies for electron energy loss spectroscopy (EELS). *Ultramicroscopy*, **2018**, 185, 42-48	3.1	13
240	Photoelectrochemically Active N-Adsorbing Ultrathin TiO2 Layers for Water-Splitting Applications Prepared by Pyrolysis of Oleic Acid on Iron Oxide Nanoparticle Surfaces under Nitrogen Environment. *Advanced Materials Interfaces*, **2018**, 6, 1801286	4.6	9
239	Gradual Transformation of Ag2S to Au2S Nanoparticles by Sequential Cation Exchange Reactions: Binary, Ternary, and Hybrid Compositions. *Chemistry of Materials*, **2018**, 30, 6893-6902	9.6	8
238	Atomic-Scale Determination of Cation Inversion in Spinel-Based Oxide Nanoparticles. *Nano Letters*, **2018**, 18, 5854-5861	11.5	13
237	Simulation of STEM-HAADF Image Contrast of Ruddlesden Popper Faulted LaNiO3 Thin Films. *Journal of Physical Chemistry C*, **2017**, 121, 9300-9304	3.8	13
236	Tuning Branching in Ceria Nanocrystals. *Chemistry of Materials*, **2017**, 29, 4418-4424	9.6	14
235	Seeded Growth Synthesis of Au Fe3O4 Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. *Chemistry of Materials*, **2017**, 29, 4022-4035	9.6	53
234	The effect of Sb-surfactant on GaInP CuPt type ordering: assessment through dark field TEM and aberration corrected HAADF imaging. *Physical Chemistry Chemical Physics*, **2017**, 19, 9806-9810	3.6	3
233	Evidence of a minority monoclinic LaNiO phase in lanthanum nickelate thin films. *Physical Chemistry Chemical Physics*, **2017**, 19, 9137-9142	3.6	8
232	Dense nanostructured calcium phosphate coating on titanium by cold spray. *Journal of the European Ceramic Society*, **2017**, 37, 1747-1755	6	24
231	Assessing Oxygen Vacancies in Bismuth Oxide through EELS Measurements and DFT Simulations. *Journal of Physical Chemistry C*, **2017**, 121, 24809-24815	3.8	15
230	High Electrocatalytic Response of a Mechanically Enhanced NbC Nanocomposite Electrode Toward Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 30872-30879	9.5	25
229	Acetate-Induced Disassembly of Spherical Iron Oxide Nanoparticle Clusters into Monodispersed Core-Shell Structures upon Nanoemulsion Fusion. *Langmuir*, **2017**, 33, 10351-10365	4	13
228	Atomistic modelling and high resolution electron microscopy simulations of CeO2 nanoparticles. *Applied Physics Letters*, **2017**, 111, 223107	3.4	
227	Enhanced Photoelectrochemical Behavior of H-TiO Nanorods Hydrogenated by Controlled and Local Rapid Thermal Annealing. *Nanoscale Research Letters*, **2017**, 12, 336	5	11
226	Coexistence of the CuPt type ordering and the fine contrast modulation in InGaP/GaAs layers depending on the substrate misorientation **2017**, 381-384		
225	On the lateral decomposition, growth mode and defect nucleation in the InxGa1-xAs channel of HEMT devices depending on the growth temperature, well thickness and mismatch **2017**, 491-494		
224	Determination of Shape and Sphericity of Silicon Quantum Dots Imaged by EFTEM-Tomography. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2017**, 14, 1700216		2

223	Precession-assisted Quasi-Parallel Illumination STEM on three condenser lenses TEMs **2016**, 439-440		
222	Density Functional Theory Modeling of Low-Loss Electron Energy-Loss Spectroscopy in Wurtzite III-Nitride Ternary Alloys. *Microscopy and Microanalysis*, **2016**, 22, 706-16	0.5	6
221	Untangling Electrostatic and Strain Effects on the Polarization of Ferroelectric Superlattices. *Advanced Functional Materials*, **2016**, 26, 6446-6453	15.6	20
220	Galvanic Replacement onto Complex Metal-Oxide Nanoparticles: Impact of Water or Other Oxidizers in the Formation of either Fully Dense Onion-like or Multicomponent Hollow MnOx/FeOx Structures. *Chemistry of Materials*, **2016**, 28, 8025-8031	9.6	22
219	Structural and optical properties of Al-Tb/SiO2 multilayers fabricated by electron beam evaporation. *Journal of Applied Physics*, **2016**, 120, 135302	2.5	4
218	A New Alternative for Obtaining Nanocrystalline Bioactive Coatings: Study of Hydroxyapatite Deposition Mechanisms by Cold Gas Spraying. *Journal of the American Ceramic Society*, **2016**, 99, 1420-1428	3.8	23
217	Electron energy loss spectroscopy on semiconductor heterostructures for optoelectronics and photonics applications. *Journal of Microscopy*, **2016**, 262, 142-50	1.9	1
216	Tailoring Staircase-like Hysteresis Loops in Electrodeposited Trisegmented Magnetic Nanowires: a Strategy toward Minimization of Interwire Interactions. *ACS Applied Materials & Interfaces*, **2016**, 8, 4109-17	9.5	17
215	Insights into Interfacial Changes and Photoelectrochemical Stability of In(x)Ga(1-x)N (0001) Photoanode Surfaces in Liquid Environments. *ACS Applied Materials & Interfaces*, **2016**, 8, 8232-8	9.5	20
214	3D Visualization of the Iron Oxidation State in FeO/Fe3O4 Core-Shell Nanocubes from Electron Energy Loss Tomography. *Nano Letters*, **2016**, 16, 5068-73	11.5	47
213	Luminescence properties of Ce3+ and Tb3+ co-doped SiOxNy thin films: Prospects for color tunability in silicon-based hosts. *Journal of Applied Physics*, **2016**, 119, 113108	2.5	14
212	Advances towards 4J lattice-matched including dilute nitride subcell for terrestrial and space applications **2016**,		5
211	Synthesis and Thermoelectric Properties of Noble Metal Ternary Chalcogenide Systems of Ag□Au□Se in the Forms of Alloyed Nanoparticles and Colloidal Nanoheterostructures. *Chemistry of Materials*, **2016**, 28, 7017-7028	9.6	18
210	Electron energy-loss spectroscopic tomography of FexCo(3-x)O4 impregnated Co3O4 mesoporous particles: unraveling the chemical information in three dimensions. *Analyst, The*, **2016**, 141, 4968-72	5	2
209	Quantitative parameters for the examination of InGaN QW multilayers by low-loss EELS. *Physical Chemistry Chemical Physics*, **2016**, 18, 23264-76	3.6	4
208	Multiple strain-induced phase transitions in LaNiO3 thin films. *Physical Review B*, **2016**, 94,	3.3	38
207	Growth of Ca3Co4O9+□ thin film on sapphire substrate and CGO dense pellet by pulsed laser deposition. Structural, microstructural, surface and electrochemical characterizations. *Solid State Ionics*, **2015**, 273, 13-17	3.3	5
206	Rare Earth-Ion/Nanosilicon Ultrathin Layer: A Versatile Nanohybrid Light-Emitting Building Block for Active Optical Metamaterials. *Journal of Physical Chemistry C*, **2015**, 119, 11800-11808	3.8	3

205	High-temperature anion and proton conduction in RE3NbO7 (RE = La, Gd, Y, Yb, Lu) compounds. *Journal of the European Ceramic Society*, **2015**, 35, 3051-3061	6	27
204	Lead-Free □LaWO□Ferroelectric Thin Films. *ACS Applied Materials & Interfaces*, **2015**, 7, 24409-18	9.5	8
203	Growth, structure, luminescence and mechanical resonance of Bi2O3 nano- and microwires. *CrystEngComm*, **2015**, 17, 132-139	3.3	11
202	Crystalline domains in epitaxial Y(Ni0.5Mn0.5)O3 thin films grown by PLD on different STO substrates. *Applied Surface Science*, **2015**, 324, 114-122	6.7	8
201	Comparative study of the catalytic performance and final surface structure of Co3O4/La-CeO2 washcoated ceramic and metallic honeycomb monoliths. *Catalysis Today*, **2015**, 253, 190-198	5.3	22
200	On the use of Sb to improve the performance of GaInP subcells of multijunction solar cells **2015**,		2
199	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe(x)O/Fe3O4 nanoparticles as a case study. *Nanoscale*, **2015**, 7, 3002-15	7.7	63
198	High-temperature long-term stable ordered mesoporous electrodes for IT-SOFC. *Ceramic Engineering and Science Proceedings*, **2015**, 111-116	0.1	
197	Au-Assisted Growth of Anisotropic and Epitaxial CdSe Colloidal Nanocrystals via in Situ Dismantling of Quantum Dots. *Chemistry of Materials*, **2015**, 27, 1656-1664	9.6	6
196	Amorphous sub-nanometre Tb-doped SiO(x)N(y)/SiO2 superlattices for optoelectronics. *Nanotechnology*, **2015**, 26, 085203	3.4	10
195	Oxide Wizard: an EELS application to characterize the white lines of transition metal edges. *Microscopy and Microanalysis*, **2014**, 20, 698-705	0.5	35
194	Retrieving the electronic properties of silicon nanocrystals embedded in a dielectric matrix by low-loss EELS. *Nanoscale*, **2014**, 6, 14971-83	7.7	14
193	Absence of quantum confinement effects in the photoluminescence of Si3N4Embedded Si nanocrystals. *Journal of Applied Physics*, **2014**, 115, 204301	2.5	36
192	EELS tomography in multiferroic nanocomposites: from spectrum images to the spectrum volume. *Nanoscale*, **2014**, 6, 6646-50	7.7	9
191	Direct evidence for an interdiffused intermediate layer in bi-magnetic core-shell nanoparticles. *Nanoscale*, **2014**, 6, 11911-20	7.7	39
190	Determining the crystalline degree of silicon nanoclusters/SiO2 multilayers by Raman scattering. *Journal of Applied Physics*, **2014**, 115, 203504	2.5	36
189	High-surface-area ordered mesoporous oxides for continuous operation in high temperature energy applications. *Journal of Materials Chemistry A*, **2014**, 2, 3134	13	17
188	Band engineered epitaxial 3D GaN-InGaN core-shell rod arrays as an advanced photoanode for visible-light-driven water splitting. *ACS Applied Materials & Interfaces*, **2014**, 6, 2235-40	9.5	61

187	Silicon nanocrystals in carbide matrix. *Solar Energy Materials and Solar Cells*, **2014**, 128, 138-149	6.4	33
186	Precessed electron beam electron energy loss spectroscopy of graphene: Beyond channelling effects. *Applied Physics Letters*, **2014**, 105, 053117	3.4	2
185	Annealing temperature and barrier thickness effect on the structural and optical properties of silicon nanocrystals/SiO2 superlattices. *Journal of Applied Physics*, **2014**, 116, 133505	2.5	22
184	Silicon nanocrystals in SiNx/SiO2 hetero-superlattices: The loss of size control after thermal annealing. *Journal of Applied Physics*, **2014**, 115, 244304	2.5	15
183	Influence of the particle morphology on the Cold Gas Spray deposition behaviour of titanium on aluminum light alloys. *Journal of Alloys and Compounds*, **2013**, 554, 89-96	5.7	32
182	The direct magnetoelectric effect in ferroelectric-ferromagnetic epitaxial heterostructures. *Nanoscale*, **2013**, 5, 8037-44	7.7	39
181	High-temperature long-term stable ordered mesoporous Ni□GO as an anode for solid oxide fuel cells. *Journal of Materials Chemistry A*, **2013**, 1, 4531	13	26
180	Structural investigation of strontium titanate nanoparticles and the core-shell model. *Physical Review B*, **2013**, 87,	3.3	12
179	Structural and compositional properties of Er-doped silicon nanoclusters/oxides for multilayered photonic devices studied by STEM-EELS. *Nanoscale*, **2013**, 5, 9963-70	7.7	3
178	Carrier transport and electroluminescence efficiency of erbium-doped silicon nanocrystal superlattices. *Applied Physics Letters*, **2013**, 103, 081102	3.4	18
177	Orientation and phase mapping in the transmission electron microscope using precession-assisted diffraction spot recognition: state-of-the-art results. *Journal of Microscopy*, **2013**, 252, 23-34	1.9	102
176	Structural, optical and electrical properties of silicon nanocrystals embedded in SixC1□/SiC multilayer systems for photovoltaic applications. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2013**, 178, 639-644	3.1	18
175	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. *Nature Communications*, **2013**, 4, 2960	17.4	132
174	Ti diffusion in (001) SrTiO3-CoFe2O4 epitaxial heterostructures: blocking role of a MgAl2O4 buffer. *Physical Chemistry Chemical Physics*, **2013**, 15, 18274-80	3.6	11
173	Resolving material-specific structures within Fe□□Mn□□ core|shell nanoparticles using anomalous small-angle X-ray scattering. *ACS Nano*, **2013**, 7, 921-31	16.7	35
172	Boron doping of silicon rich carbides: Electrical properties. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2013**, 178, 551-558	3.1	16
171	Learning from nature to improve the heat generation of iron-oxide nanoparticles for magnetic hyperthermia applications. *Scientific Reports*, **2013**, 3, 1652	4.9	369
170	Synthesis, Characterization, and Humidity Detection Properties of Nb2O5 Nanorods and SnO2/Nb2O5 Heterostructures. *Journal of Physical Chemistry C*, **2013**, 117, 10086-10094	3.8	34

169	Insight into high-reflectivity AlN/GaN Bragg reflectors with spontaneously formed (Al,Ga)N transient layers at the interfaces. *Journal of Applied Physics*, **2013**, 113, 183106	2.5	11
168	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co3O4 replicas with ferrimagnetic Fe(x)Co(3-x)O4 nanolayers. *Nanoscale*, **2013**, 5, 5561-7	7.7	12
167	Combined (S)TEM-FIB Insight into the Influence of the Preparation Method on the Final Surface Structure of a Co3O4/La-Modified-CeO2 Washcoated Monolithic Catalyst. *Journal of Physical Chemistry C*, **2013**, 117, 13028-13036	3.8	13
166	Tailoring the surface density of silicon nanocrystals embedded in SiOx single layers. *Journal of Applied Physics*, **2013**, 114, 233101	2.5	8
165	Insight into the compositional and structural nano features of AlN/GaN DBRs by EELS-HAADF. *Microscopy and Microanalysis*, **2013**, 19, 698-705	0.5	10
164	Local Structure of Rare Earth Niobates (RE3NbO7, RE = Y, Er, Yb, Lu) for Proton Conduction Applications?. *Fuel Cells*, **2013**, 13, 29-33	2.9	22
163	Structural and optical properties of size controlled Si nanocrystals in Si3N4 matrix: The nature of photoluminescence peak shift. *Journal of Applied Physics*, **2013**, 114, 184311	2.5	26
162	ORDEREDGaN/InGaNNANORODS ARRAYS GROWN BY MOLECULAR BEAM EPITAXY FOR PHOSPHOR-FREE WHITE LIGHT EMISSION. *Selected Topics in Electornics and Systems*, **2013**, 109-132	0	
161	Distinguishing the core from the shell in MnO(x)/MnO(y) and FeO(x)/MnO(x) core/shell nanoparticles through quantitative electron energy loss spectroscopy (EELS) analysis. *Micron*, **2012**, 43, 30-6	2.3	33
160	Assessment of misorientation in metallic and semiconducting nanowires using precession electron diffraction. *Micron*, **2012**, 43, 910-5	2.3	8
159	Electric transport through nanometric CoFe2O4 thin films investigated by conducting atomic force microscopy. *Journal of Applied Physics*, **2012**, 111, 013904	2.5	2
158	EEL spectroscopic tomography: towards a new dimension in nanomaterials analysis. *Ultramicroscopy*, **2012**, 122, 12-8	3.1	32
157	Heteroepitaxial growth of MgO(111) thin films on Al2O3(0001): Evidence of a wurtzite to rocksalt transformation. *Physical Review B*, **2012**, 86,	3.3	12
156	EELS signal enhancement by means of beam precession in the TEM. *Ultramicroscopy*, **2012**, 116, 135-137	3.1	3
155	Selective area growth of a- and c-plane GaN nanocolumns by molecular beam epitaxy using colloidal nanolithography. *Journal of Crystal Growth*, **2012**, 353, 1-4	1.6	41
154	Surface Reactivity of Iron Oxide Nanoparticles by Microwave-Assisted Synthesis; Comparison with the Thermal Decomposition Route. *Journal of Physical Chemistry C*, **2012**, 116, 15108-15116	3.8	77
153	Strongly exchange coupled inverse ferrimagnetic soft/hard, Mn(x)Fe(3-x)O4/Fe(x)Mn(3-x)O4, core/shell heterostructured nanoparticles. *Nanoscale*, **2012**, 4, 5138-47	7.7	66
152	ORDERED GAN/INGAN NANORODS ARRAYS GROWN BY MOLECULAR BEAM EPITAXY FOR PHOSPHOR-FREE WHITE LIGHT EMISSION. *International Journal of High Speed Electronics and Systems*, **2012**, 21, 1250010	0.5	7

151	Optoelectronic properties of InAlN/GaN distributed bragg reflector heterostructure examined by valence electron energy loss spectroscopy. *Microscopy and Microanalysis*, **2012**, 18, 1143-54	0.5	19
150	Effect of the capping on the local Mn oxidation state in buried (001) and (110) SrTiO3/La2/3Ca1/3MnO3 interfaces. *Journal of Applied Physics*, **2011**, 110, 103903	2.5	6
149	Distinct magnetism in ultrathin epitaxial NiFe2O4 films on MgAl2O4 and SrTiO3 single crystalline substrates. *Physical Review B*, **2011**, 84,	3.3	19
148	Direct correlation of crystal structure and optical properties in wurtzite/zinc-blende GaAs nanowire heterostructures. *Physical Review B*, **2011**, 83,	3.3	181
147	Structural and optical characterization of size controlled silicon nanocrystals in SiO2/SiOxNy multilayers. *Energy Procedia*, **2011**, 10, 43-48	2.3	13
146	Blue-green to near-IR switching electroluminescence from Si-rich silicon oxide/nitride bilayer structures. *Optics Letters*, **2011**, 36, 2617-9	3	9
145	(V)EELS Characterization of InAlN/GaN Distributed Bragg Reflectors. *Journal of Physics: Conference Series*, **2011**, 326, 012014	0.3	1
144	Formation of size-controlled silicon nanocrystals in plasma enhanced chemical vapor deposition grown SiOxNy/SiO2 superlattices. *Thin Solid Films*, **2011**, 520, 121-125	2.2	102
143	A new approach for 3D reconstruction from bright field TEM imaging: beam precession assisted electron tomography. *Ultramicroscopy*, **2011**, 111, 1504-11	3.1	29
142	A Molecular Dynamics Study on the Oxygen Diffusion in Doped Fluorites: The Effect of the Dopant Distribution. *Fuel Cells*, **2011**, 11, 26-37	2.9	34
141	Substrate effects on the structural and photoresponse properties of CVD grown ZnO nanostructures: alumina vs. silica. *CrystEngComm*, **2011**, 13, 656-662	3.3	7
140	Synthesis and Magnetic Characterization of Coaxial Ge1−xMnx/a-Si Heterostructures. *Crystal Growth and Design*, **2011**, 11, 5253-5259	3.5	4
139	High quality InAlN single layers lattice-matched to GaN grown by molecular beam epitaxy. *Applied Physics Letters*, **2011**, 99, 031103	3.4	25
138	Effectiveness of nitrogen incorporation to enhance the photoelectrochemical activity of nanostructured TiO2:NH3 versus H2-N2 annealing. *Nanotechnology*, **2011**, 22, 235403	3.4	19
137	Long-range order of Ni2+ and Mn4+ and ferromagnetism in multiferroic (Bi0.9La0.1)2NiMnO6 thin films. *Journal of Applied Physics*, **2010**, 108, 123907	2.5	14
136	InAlN/GaN Bragg reflectors grown by plasma-assisted molecular beam epitaxy. *Journal of Applied Physics*, **2010**, 108, 113117	2.5	18
135	Nontunnel transport through CoFe2O4 nanometric barriers. *Applied Physics Letters*, **2010**, 97, 242508	3.4	5
134	Selectable spontaneous polarization direction and magnetic anisotropy in BiFeO3-CoFe2O4 epitaxial nanostructures. *ACS Nano*, **2010**, 4, 4955-61	16.7	81

133	Size-dependent passivation shell and magnetic properties in antiferromagnetic/ferrimagnetic core/shell MnO nanoparticles. *Journal of the American Chemical Society*, **2010**, 132, 9398-407	16.4	100
132	Defect Formation in Ga-Catalyzed Silicon Nanowires. *Crystal Growth and Design*, **2010**, 10, 1534-1543	3.5	42
131	Growth study of indium-catalyzed silicon nanowires by plasma enhanced chemical vapor deposition. *Applied Physics A: Materials Science and Processing*, **2010**, 100, 287-296	2.6	46
130	Three-dimensional photonic microstructures produced by electric field assisted dissolution of metal nanoclusters in multilayer stacks. *Applied Physics B: Lasers and Optics*, **2010**, 98, 93-98	1.9	18
129	Electrical characterization of thermomechanically stable YSZ membranes for micro solid oxide fuel cells applications. *Solid State Ionics*, **2010**, 181, 322-331	3.3	53
128	Mo-Based Proximity Bilayers for TES: Microstructure and Properties. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 460-464	1.8	15
127	Growth and magnetic characterization of Co nanoparticles obtained by femtosecond pulsed laser deposition. *Physical Review B*, **2009**, 79,	3.3	14
126	Catalyst-free nanowires with axial InxGa1-xAs/GaAs heterostructures. *Nanotechnology*, **2009**, 20, 075603	3.4	64
125	Gallium assisted plasma enhanced chemical vapor deposition of silicon nanowires. *Nanotechnology*, **2009**, 20, 155602	3.4	58
124	Single crystalline and core-shell indium-catalyzed germanium nanowires-a systematic thermal CVD growth study. *Nanotechnology*, **2009**, 20, 245608	3.4	24
123	Studies on Surface Facets and Chemical Composition of Vapor Grown One-Dimensional Magnetite Nanostructures. *Crystal Growth and Design*, **2009**, 9, 1077-1081	3.5	33
122	Raman spectroscopy of wurtzite and zinc-blende GaAs nanowires: Polarization dependence, selection rules, and strain effects. *Physical Review B*, **2009**, 80,	3.3	194
121	Triple-twin domains in Mg doped GaN wurtzite nanowires: structural and electronic properties of this zinc-blende-like stacking. *Nanotechnology*, **2009**, 20, 145704	3.4	80
120	Long range epitaxial growth of prismatic heterostructures on the facets of catalyst-free GaAs nanowires. *Journal of Materials Chemistry*, **2009**, 19, 840		83
119	Plasma-enhanced low temperature growth of silicon nanowires and hierarchical structures by using tin and indium catalysts. *Nanotechnology*, **2009**, 20, 225604	3.4	97
118	Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. *Physical Review B*, **2009**, 80,	3.3	399
117	Effects of thickness on the cation segregation in epitaxial (001) and (110) La2/3Ca1/3MnO3 thin films. *Applied Physics Letters*, **2009**, 95, 072507	3.4	39
116	Assessment of the thermal stability of anodic alumina membranes at high temperatures. *Materials Chemistry and Physics*, **2008**, 111, 542-547	4.4	57

115	Electric field assisted dissolution of metal clusters in metal island films for photonic heterostructures. *Applied Physics Letters*, **2008**, 92, 163108	3.4	15
114	Nucleation and growth of GaN nanorods on Si (111) surfaces by plasma-assisted molecular beam epitaxy - The influence of Si- and Mg-doping. *Journal of Applied Physics*, **2008**, 104, 034309	2.5	127
113	Influence of the (111) twinning on the formation of diamond cubic/diamond hexagonal heterostructures in Cu-catalyzed Si nanowires. *Journal of Applied Physics*, **2008**, 104, 064312	2.5	77
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