

Francesca Peiro

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276
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h-index

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294
ext. papers

7,442
ext. citations

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L-index

#	Paper	IF	Citations
276	Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. <i>Physical Review B</i> , 2009 , 80,	3.3	399
275	Learning from nature to improve the heat generation of iron-oxide nanoparticles for magnetic hyperthermia applications. <i>Scientific Reports</i> , 2013 , 3, 1652	4.9	369
274	Effects of Nb doping on the TiO ₂ anatase-to-rutile phase transition. <i>Journal of Applied Physics</i> , 2002 , 92, 853-861	2.5	279
273	Synthesis and Characterization of Chromium-Doped Mesoporous Tungsten Oxide for Gas Sensing Applications. <i>Advanced Functional Materials</i> , 2007 , 17, 1801-1806	15.6	225
272	Large magnetoresistance in Fe/MgO/FeCo(001) epitaxial tunnel junctions on GaAs(001). <i>Applied Physics Letters</i> , 2001 , 79, 1655-1657	3.4	202
271	Raman spectroscopy of wurtzite and zinc-blende GaAs nanowires: Polarization dependence, selection rules, and strain effects. <i>Physical Review B</i> , 2009 , 80,	3.3	194
270	Direct correlation of crystal structure and optical properties in wurtzite/zinc-blende GaAs nanowire heterostructures. <i>Physical Review B</i> , 2011 , 83,	3.3	181
269	Nanostructured metal oxides synthesized by hard template method for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2005 , 109, 57-63	8.5	165
268	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , 2013 , 4, 2960	17.4	132
267	Nucleation and growth of GaN nanorods on Si (111) surfaces by plasma-assisted molecular beam epitaxy - The influence of Si- and Mg-doping. <i>Journal of Applied Physics</i> , 2008 , 104, 034309	2.5	127
266	GdBaCo ₂ O _{5+x} layered perovskite as an intermediate temperature solid oxide fuel cell cathode. <i>Journal of Power Sources</i> , 2007 , 174, 255-263	8.9	120
265	A Novel Mesoporous CaO-Loaded In ₂ O ₃ Material for CO ₂ Sensing. <i>Advanced Functional Materials</i> , 2007 , 17, 2957-2963	15.6	117
264	Orientation and phase mapping in the transmission electron microscope using precession-assisted diffraction spot recognition: state-of-the-art results. <i>Journal of Microscopy</i> , 2013 , 252, 23-34	1.9	102
263	Formation of size-controlled silicon nanocrystals in plasma enhanced chemical vapor deposition grown SiO _x Ny/SiO ₂ superlattices. <i>Thin Solid Films</i> , 2011 , 520, 121-125	2.2	102
262	Size-dependent passivation shell and magnetic properties in antiferromagnetic/ferrimagnetic core/shell MnO nanoparticles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9398-407	16.4	100
261	Plasma-enhanced low temperature growth of silicon nanowires and hierarchical structures by using tin and indium catalysts. <i>Nanotechnology</i> , 2009 , 20, 225604	3.4	97
260	Elastic and orbital effects on thickness-dependent properties of manganite thin films. <i>Physical Review B</i> , 2007 , 76,	3.3	87

259	Long range epitaxial growth of prismatic heterostructures on the facets of catalyst-free GaAs nanowires. <i>Journal of Materials Chemistry</i> , 2009 , 19, 840		83
258	Selectable spontaneous polarization direction and magnetic anisotropy in BiFeO ₃ -CoFe ₂ O ₄ epitaxial nanostructures. <i>ACS Nano</i> , 2010 , 4, 4955-61	16.7	81
257	Triple-twin domains in Mg doped GaN wurtzite nanowires: structural and electronic properties of this zinc-blende-like stacking. <i>Nanotechnology</i> , 2009 , 20, 145704	3.4	80
256	Surface Reactivity of Iron Oxide Nanoparticles by Microwave-Assisted Synthesis; Comparison with the Thermal Decomposition Route. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15108-15116	3.8	77
255	Influence of the (111) twinning on the formation of diamond cubic/diamond hexagonal heterostructures in Cu-catalyzed Si nanowires. <i>Journal of Applied Physics</i> , 2008 , 104, 064312	2.5	77
254	Synthesis of nanocrystalline materials for SOFC applications by acrylamide polymerisation. <i>Journal of Power Sources</i> , 2003 , 118, 256-264	8.9	68
253	Ultraviolet optical and microstructural properties of MgF ₂ and LaF ₃ coatings deposited by ion-beam sputtering and boat and electron-beam evaporation. <i>Applied Optics</i> , 2002 , 41, 3196-204	1.7	67
252	Strongly exchange coupled inverse ferrimagnetic soft/hard, Mn(x)Fe(3-x)O ₄ /Fe(x)Mn(3-x)O ₄ , core/shell heterostructured nanoparticles. <i>Nanoscale</i> , 2012 , 4, 5138-47	7.7	66
251	Optimization of tin dioxide nanosticks faceting for the improvement of palladium nanocluster epitaxy. <i>Applied Physics Letters</i> , 2002 , 80, 329-331	3.4	65
250	Catalyst-free nanowires with axial In _x Ga _{1-x} As/GaAs heterostructures. <i>Nanotechnology</i> , 2009 , 20, 075603	3.4	64
249	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe(x)O/Fe ₃ O ₄ nanoparticles as a case study. <i>Nanoscale</i> , 2015 , 7, 3002-15	7.7	63
248	Band engineered epitaxial 3D GaN-InGaN core-shell rod arrays as an advanced photoanode for visible-light-driven water splitting. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2235-40	9.5	61
247	Gallium assisted plasma enhanced chemical vapor deposition of silicon nanowires. <i>Nanotechnology</i> , 2009 , 20, 155602	3.4	58
246	Assessment of the thermal stability of anodic alumina membranes at high temperatures. <i>Materials Chemistry and Physics</i> , 2008 , 111, 542-547	4.4	57
245	Seeded Growth Synthesis of Au@Fe ₃ O ₄ Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. <i>Chemistry of Materials</i> , 2017 , 29, 4022-4035	9.6	53
244	Electrical characterization of thermomechanically stable YSZ membranes for micro solid oxide fuel cells applications. <i>Solid State Ionics</i> , 2010 , 181, 322-331	3.3	53
243	3D Visualization of the Iron Oxidation State in FeO/Fe ₃ O ₄ Core-Shell Nanocubes from Electron Energy Loss Tomography. <i>Nano Letters</i> , 2016 , 16, 5068-73	11.5	47
242	Growth study of indium-catalyzed silicon nanowires by plasma enhanced chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 287-296	2.6	46

241	Coverage effects on the magnetism of Fe/MgO(001) ultrathin films. <i>Physical Review B</i> , 2005 , 71,	3.3	46
240	Mesostructured pure and copper-catalyzed tungsten oxide for NO ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 18-23	8.5	45
239	Defect Formation in Ga-Catalyzed Silicon Nanowires. <i>Crystal Growth and Design</i> , 2010 , 10, 1534-1543	3.5	42
238	Precise Size Control of the Growth of FeO Nanocubes over a Wide Size Range Using a Rationally Designed One-Pot Synthesis. <i>ACS Nano</i> , 2019 , 13, 7716-7728	16.7	41
237	Selective area growth of a- and c-plane GaN nanocolumns by molecular beam epitaxy using colloidal nanolithography. <i>Journal of Crystal Growth</i> , 2012 , 353, 1-4	1.6	41
236	Direct evidence for an interdiffused intermediate layer in bi-magnetic core-shell nanoparticles. <i>Nanoscale</i> , 2014 , 6, 11911-20	7.7	39
235	The direct magnetoelectric effect in ferroelectric-ferromagnetic epitaxial heterostructures. <i>Nanoscale</i> , 2013 , 5, 8037-44	7.7	39
234	Effects of thickness on the cation segregation in epitaxial (001) and (110) La _{2/3} Ca _{1/3} MnO ₃ thin films. <i>Applied Physics Letters</i> , 2009 , 95, 072507	3.4	39
233	Multiple strain-induced phase transitions in LaNiO ₃ thin films. <i>Physical Review B</i> , 2016 , 94,	3.3	38
232	Absence of quantum confinement effects in the photoluminescence of Si ₃ N ₄ Embedded Si nanocrystals. <i>Journal of Applied Physics</i> , 2014 , 115, 204301	2.5	36
231	Determining the crystalline degree of silicon nanoclusters/SiO ₂ multilayers by Raman scattering. <i>Journal of Applied Physics</i> , 2014 , 115, 203504	2.5	36
230	Oxide Wizard: an EELS application to characterize the white lines of transition metal edges. <i>Microscopy and Microanalysis</i> , 2014 , 20, 698-705	0.5	35
229	Resolving material-specific structures within Fe ₃ O ₄ /MnO ₂ core/shell nanoparticles using anomalous small-angle X-ray scattering. <i>ACS Nano</i> , 2013 , 7, 921-31	16.7	35
228	Cationic and charge segregation in La _{2/3} Ca _{1/3} MnO ₃ thin films grown on (001) and (110) SrTiO ₃ . <i>Applied Physics Letters</i> , 2008 , 93, 112505	3.4	35
227	Electroless Addition of Catalytic Pd to SnO ₂ Nanopowders. <i>Chemistry of Materials</i> , 2001 , 13, 4362-4366	9.6	35
226	Synthesis, Characterization, and Humidity Detection Properties of Nb ₂ O ₅ Nanorods and SnO ₂ /Nb ₂ O ₅ Heterostructures. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10086-10094	3.8	34
225	A Molecular Dynamics Study on the Oxygen Diffusion in Doped Fluorites: The Effect of the Dopant Distribution. <i>Fuel Cells</i> , 2011 , 11, 26-37	2.9	34
224	Epitaxial Fe/MgO heterostructures on GaAs(001). <i>Journal of Crystal Growth</i> , 2001 , 226, 223-230	1.6	34

223	Microstructure and composition of MgF ₂ optical coatings grown on Si substrate by PVD and IBS processes. <i>Thin Solid Films</i> , 2000 , 360, 133-138	2.2	34
222	Self-assembled quantum dots of InSb grown on InP by atomic layer molecular beam epitaxy: Morphology and strain relaxation. <i>Applied Physics Letters</i> , 1996 , 69, 3887-3889	3.4	34
221	Silicon nanocrystals in carbide matrix. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 128, 138-149	6.4	33
220	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. <i>Micron</i> , 2012 , 43, 30-6	2.3	33
219	Studies on Surface Facets and Chemical Composition of Vapor Grown One-Dimensional Magnetite Nanostructures. <i>Crystal Growth and Design</i> , 2009 , 9, 1077-1081	3.5	33
218	Size effects in the magneto-optical response of Co nanoparticles. <i>Physical Review B</i> , 2005 , 72,	3.3	33
217	Sphericity and roundness computation for particles using the extreme vertices model. <i>Journal of Computational Science</i> , 2019 , 30, 28-40	3.4	33
216	Influence of the particle morphology on the Cold Gas Spray deposition behaviour of titanium on aluminum light alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 554, 89-96	5.7	32
215	EEL spectroscopic tomography: towards a new dimension in nanomaterials analysis. <i>Ultramicroscopy</i> , 2012 , 122, 12-8	3.1	32
214	Strain-induced stabilization of new magnetic spinel structures in epitaxial oxide heterostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 144, 43-48	3.1	30
213	A new approach for 3D reconstruction from bright field TEM imaging: beam precession assisted electron tomography. <i>Ultramicroscopy</i> , 2011 , 111, 1504-11	3.1	29
212	Conductivity Dependence on Oxygen Partial Pressure and Oxide-Ion Transport Numbers Determination for La ₂ Mo ₂ O ₉ . <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A373		29
211	Optical and microstructural properties of MgF ₂ UV coatings grown by ion beam sputtering process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 2869-2876	2.9	29
210	High-temperature anion and proton conduction in RE ₃ NbO ₇ (RE = La, Gd, Y, Yb, Lu) compounds. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3051-3061	6	27
209	Influence of premetallization surface treatment on the formation of Schottky Au-nGaN contacts. <i>Journal of Applied Physics</i> , 2002 , 92, 3179-3186	2.5	27
208	High-temperature long-term stable ordered mesoporous Ni ₂ GO as an anode for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4531	13	26
207	Structural and optical properties of size controlled Si nanocrystals in Si ₃ N ₄ matrix: The nature of photoluminescence peak shift. <i>Journal of Applied Physics</i> , 2013 , 114, 184311	2.5	26
206	High Electrocatalytic Response of a Mechanically Enhanced NbC Nanocomposite Electrode Toward Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30872-30879	9.5	25

205	High quality InAlN single layers lattice-matched to GaN grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2011 , 99, 031103	3.4	25
204	On the structural characterization of BaTiO ₃ /CuO as CO ₂ sensing material. <i>Sensors and Actuators B: Chemical</i> , 2008 , 133, 315-320	8.5	25
203	Dense nanostructured calcium phosphate coating on titanium by cold spray. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 1747-1755	6	24
202	Single crystalline and core-shell indium-catalyzed germanium nanowires-a systematic thermal CVD growth study. <i>Nanotechnology</i> , 2009 , 20, 245608	3.4	24
201	Magnetization reversal and magnetic anisotropies in epitaxial Fe/MgO and Fe/MgO/Fe heterostructures grown on Si(001). <i>Journal of Applied Physics</i> , 2003 , 93, 2126-2134	2.5	24
200	A New Alternative for Obtaining Nanocrystalline Bioactive Coatings: Study of Hydroxyapatite Deposition Mechanisms by Cold Gas Spraying. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1420-1428	2.8	23
199	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. <i>Chemistry of Materials</i> , 2016 , 28, 8025-8031	9.6	22
198	Comparative study of the catalytic performance and final surface structure of Co ₃ O ₄ /La-CeO ₂ washcoated ceramic and metallic honeycomb monoliths. <i>Catalysis Today</i> , 2015 , 253, 190-198	5.3	22
197	Annealing temperature and barrier thickness effect on the structural and optical properties of silicon nanocrystals/SiO ₂ superlattices. <i>Journal of Applied Physics</i> , 2014 , 116, 133505	2.5	22
196	Local Structure of Rare Earth Niobates (RE ₃ NbO ₇ , RE = Y, Er, Yb, Lu) for Proton Conduction Applications?. <i>Fuel Cells</i> , 2013 , 13, 29-33	2.9	22
195	Influence of the composition modulation on the relaxation of In _{0.54} Ga _{0.46} As strained layers. <i>Applied Physics Letters</i> , 1991 , 59, 1957-1959	3.4	21
194	Untangling Electrostatic and Strain Effects on the Polarization of Ferroelectric Superlattices. <i>Advanced Functional Materials</i> , 2016 , 26, 6446-6453	15.6	20
193	Insights into Interfacial Changes and Photoelectrochemical Stability of In(x)Ga(1-x)N (0001) Photoanode Surfaces in Liquid Environments. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8232-8	9.5	20
192	Quantum wirelike induced morphology in InGaAs wells grown on InyAl _{1-y} As tensile buffer layers over (100)InP vicinal surfaces. <i>Applied Physics Letters</i> , 1995 , 66, 2391-2393	3.4	20
191	Distinct magnetism in ultrathin epitaxial NiFe ₂ O ₄ films on MgAl ₂ O ₄ and SrTiO ₃ single crystalline substrates. <i>Physical Review B</i> , 2011 , 84,	3.3	19
190	Effectiveness of nitrogen incorporation to enhance the photoelectrochemical activity of nanostructured TiO ₂ :NH ₃ versus H ₂ -N ₂ annealing. <i>Nanotechnology</i> , 2011 , 22, 235403	3.4	19
189	Optoelectronic properties of InAlN/GaN distributed bragg reflector heterostructure examined by valence electron energy loss spectroscopy. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1143-54	0.5	19
188	Strain-Induced Quenching of Optical Transitions in Capped Self-Assembled Quantum Dot Structures. <i>Physical Review Letters</i> , 1998 , 80, 1094-1097	7.4	19

187	Fast-ADT: A fast and automated electron diffraction tomography setup for structure determination and refinement. <i>Ultramicroscopy</i> , 2020 , 211, 112951	3.1	18
186	Carrier transport and electroluminescence efficiency of erbium-doped silicon nanocrystal superlattices. <i>Applied Physics Letters</i> , 2013 , 103, 081102	3.4	18
185	Structural, optical and electrical properties of silicon nanocrystals embedded in SiC/SiC multilayer systems for photovoltaic applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 639-644	3.1	18
184	InAlN/GaN Bragg reflectors grown by plasma-assisted molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2010 , 108, 113117	2.5	18
183	Three-dimensional photonic microstructures produced by electric field assisted dissolution of metal nanoclusters in multilayer stacks. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 98, 93-98	1.9	18
182	Gadolinium doped Ceria nanocrystals synthesized from mesoporous silica. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 369-375	2.3	18
181	Capping layer effects in the structure and composition of Co nanoparticle ultrathin films. <i>Applied Physics Letters</i> , 2005 , 86, 032510	3.4	18
180	GaN Cleaning by Ga Deposition, Reduction and Re-Evaporation: An XPS Study. <i>Physica Status Solidi A</i> , 1999 , 176, 751-754		18
179	Synthesis and Thermoelectric Properties of Noble Metal Ternary Chalcogenide Systems of Ag ₂ AuBe in the Forms of Alloyed Nanoparticles and Colloidal Nanoheterostructures. <i>Chemistry of Materials</i> , 2016 , 28, 7017-7028	9.6	18
178	Tailoring Staircase-like Hysteresis Loops in Electrodeposited Trisegmented Magnetic Nanowires: a Strategy toward Minimization of Interwire Interactions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4109-17	9.5	17
177	High-surface-area ordered mesoporous oxides for continuous operation in high temperature energy applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3134	13	17
176	Boron doping of silicon rich carbides: Electrical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 551-558	3.1	16
175	Engineering Transport in Manganites by Tuning Local Nonstoichiometry in Grain Boundaries. <i>Advanced Materials</i> , 2019 , 31, e1805360	24	16
174	Assessing Oxygen Vacancies in Bismuth Oxide through EELS Measurements and DFT Simulations. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24809-24815	3.8	15
173	Independent Tuning of Optical Transparency Window and Electrical Properties of Epitaxial SrVO ₃ Thin Films by Substrate Mismatch. <i>Advanced Functional Materials</i> , 2019 , 29, 1904238	15.6	15
172	Silicon nanocrystals in SiN _x /SiO ₂ hetero-superlattices: The loss of size control after thermal annealing. <i>Journal of Applied Physics</i> , 2014 , 115, 244304	2.5	15
171	Mo-Based Proximity Bilayers for TES: Microstructure and Properties. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 460-464	1.8	15
170	Electric field assisted dissolution of metal clusters in metal island films for photonic heterostructures. <i>Applied Physics Letters</i> , 2008 , 92, 163108	3.4	15

169	Cationic diffusion in La ₂ BaMnO ₃ thin films grown on LaAlO ₃ (001) substrates. <i>Applied Physics Letters</i> , 2007 , 91, 252503	3.4	15
168	A Comprehensive Optimization of InAlAs Molecular Beam Epitaxy for InGaAs / InAlAs HEMT Technology. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 1503-1509	3.9	15
167	Tuning Branching in Ceria Nanocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 4418-4424	9.6	14
166	Retrieving the electronic properties of silicon nanocrystals embedded in a dielectric matrix by low-loss EELS. <i>Nanoscale</i> , 2014 , 6, 14971-83	7.7	14
165	Long-range order of Ni ²⁺ and Mn ⁴⁺ and ferromagnetism in multiferroic (Bi _{0.9} La _{0.1}) ₂ NiMnO ₆ thin films. <i>Journal of Applied Physics</i> , 2010 , 108, 123907	2.5	14
164	Growth and magnetic characterization of Co nanoparticles obtained by femtosecond pulsed laser deposition. <i>Physical Review B</i> , 2009 , 79,	3.3	14
163	Epitaxial growth of biferroic YMnO ₃ (0 0 0 1) on platinum electrodes. <i>Journal of Crystal Growth</i> , 2007 , 299, 288-294	1.6	14
162	Luminescence properties of Ce ³⁺ and Tb ³⁺ co-doped SiO _x N _y thin films: Prospects for color tunability in silicon-based hosts. <i>Journal of Applied Physics</i> , 2016 , 119, 113108	2.5	14
161	Simulation of STEM-HAADF Image Contrast of Ruddlesden-Popper Faulted LaNiO ₃ Thin Films. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9300-9304	3.8	13
160	Facile and Efficient Atomic Hydrogenation Enabled Black TiO ₂ with Enhanced Photo-Electrochemical Activity via a Favorably Low-Energy-Barrier Pathway. <i>Advanced Energy Materials</i> , 2019 , 9, 1900725	21.8	13
159	Acetate-Induced Disassembly of Spherical Iron Oxide Nanoparticle Clusters into Monodispersed Core-Shell Structures upon Nanoemulsion Fusion. <i>Langmuir</i> , 2017 , 33, 10351-10365	4	13
158	Combined (S)TEM-FIB Insight into the Influence of the Preparation Method on the Final Surface Structure of a Co ₃ O ₄ /La-Modified-CeO ₂ Washcoated Monolithic Catalyst. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13028-13036	3.8	13
157	Structural and optical characterization of size controlled silicon nanocrystals in SiO ₂ /SiO _x N _y multilayers. <i>Energy Procedia</i> , 2011 , 10, 43-48	2.3	13
156	Structural and functional characterization of (110)-oriented epitaxial La ₂ BaMnO ₃ electrodes and SrTiO ₃ tunnel barriers. <i>Journal of Applied Physics</i> , 2007 , 101, 093902	2.5	13
155	Near ideal, high barrier, Au-nGaN Schottky contacts. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, L115-L118	13	13
154	Competitive evolution of the fine contrast modulation and CuPt ordering in InGaP/GaAs layers. <i>Journal of Applied Physics</i> , 1996 , 80, 3798-3803	2.5	13
153	Influence of the desorption and growth temperatures on the crystalline quality of molecular-beam epitaxy InAlAs layers. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1992 , 10, 2148		13
152	Clustering analysis strategies for electron energy loss spectroscopy (EELS). <i>Ultramicroscopy</i> , 2018 , 185, 42-48	3.1	13

151	Atomic-Scale Determination of Cation Inversion in Spinel-Based Oxide Nanoparticles. <i>Nano Letters</i> , 2018 , 18, 5854-5861	11.5	13
150	Structural investigation of strontium titanate nanoparticles and the core-shell model. <i>Physical Review B</i> , 2013 , 87,	3.3	12
149	Heteroepitaxial growth of MgO(111) thin films on Al ₂ O ₃ (0001): Evidence of a wurtzite to rocksalt transformation. <i>Physical Review B</i> , 2012 , 86,	3.3	12
148	Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co ₃ O ₄ replicas with ferrimagnetic Fe(x)Co(3-x)O ₄ nanolayers. <i>Nanoscale</i> , 2013 , 5, 5561-7	7.7	12
147	Growth, structure, luminescence and mechanical resonance of Bi ₂ O ₃ nano- and microwires. <i>CrystEngComm</i> , 2015 , 17, 132-139	3.3	11
146	Ti diffusion in (001) SrTiO ₃ -CoFe ₂ O ₄ epitaxial heterostructures: blocking role of a MgAl ₂ O ₄ buffer. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18274-80	3.6	11
145	Enhanced Photoelectrochemical Behavior of H-TiO Nanorods Hydrogenated by Controlled and Local Rapid Thermal Annealing. <i>Nanoscale Research Letters</i> , 2017 , 12, 336	5	11
144	Insight into high-reflectivity AlN/GaN Bragg reflectors with spontaneously formed (Al,Ga)N transient layers at the interfaces. <i>Journal of Applied Physics</i> , 2013 , 113, 183106	2.5	11
143	Amorphous sub-nanometre Tb-doped SiO(x)N(y)/SiO ₂ superlattices for optoelectronics. <i>Nanotechnology</i> , 2015 , 26, 085203	3.4	10
142	Insight into the compositional and structural nano features of AlN/GaN DBRs by EELS-HAADF. <i>Microscopy and Microanalysis</i> , 2013 , 19, 698-705	0.5	10
141	Metal Oxide Aerogels with Controlled Crystallinity and Faceting from the Epoxide-Driven Cross-Linking of Colloidal Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16041-16048	9.5	9
140	Electrostatic-Driven Gelation of Colloidal Nanocrystals. <i>Langmuir</i> , 2018 , 34, 9167-9174	4	9
139	EELS tomography in multiferroic nanocomposites: from spectrum images to the spectrum volume. <i>Nanoscale</i> , 2014 , 6, 6646-50	7.7	9
138	Blue-green to near-IR switching electroluminescence from Si-rich silicon oxide/nitride bilayer structures. <i>Optics Letters</i> , 2011 , 36, 2617-9	3	9
137	Surface step bunching and crystal defects in InAlAs films grown by molecular beam epitaxy on (111)B InP substrates. <i>Applied Physics Letters</i> , 1997 , 71, 2961-2963	3.4	9
136	Electronic effects in manganite/insulator interfaces: interfacial enhancement of the insulating tunneling barriers. <i>Small</i> , 2008 , 4, 365-71	11	9
135	Effect of grain size distribution on the grain boundary electrical response of 2D and 3D polycrystals. <i>Solid State Ionics</i> , 2006 , 177, 3117-3121	3.3	9
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