

# Asuncion Fernandez

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

249  
papers

9,499  
citations

48  
h-index

85  
g-index

264  
ext. papers

10,029  
ext. citations

4.8  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
249	A hydrogen generator coupled to a hydrogen heater for small scale portable applications. <i>E3S Web of Conferences</i> , <b>2022</b> , 334, 06006	0.5	
248	Morphologically diverse CaCO <sub>3</sub> microparticles and their incorporation into recycled cellulose for circular economy. <i>Materials Today Sustainability</i> , <b>2022</b> , 100166	5	0
247	Influence of helium incorporation on growth process and properties of aluminum thin films deposited by DC magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2021</b> , 426, 127808	4.4	
246	Low gas consumption fabrication of <sup>3</sup> He solid targets for nuclear reactions. <i>Materials and Design</i> , <b>2020</b> , 186, 108337	8.1	2
245	Advances in the implementation of PVD-based techniques for the preparation of metal catalysts for the hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 33288-33309	6.7	3
244	Tailoring materials by high-energy ball milling: TiO <sub>2</sub> mixtures for catalyst support application. <i>Materials Today Chemistry</i> , <b>2020</b> , 17, 100340	6.2	5
243	Novel solid ( <sup>4</sup> He) targets for experimental studies on nuclear reactions: ( <sup>6</sup> Li) + ( <sup>4</sup> He) differential cross-section measurement at incident energy of 5.5 MeV. <i>European Physical Journal Plus</i> , <b>2020</b> , 135, 1	3.1	1
242	Surface nickel particles generated by exsolution from a perovskite structure. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 273, 75-80	3.3	6
241	Exchange bias and two steps magnetization reversal in porous Co/CoO layer. <i>Materials and Design</i> , <b>2019</b> , 171, 107691	8.1	4
240	Morphological effects on the photocatalytic properties of SnO <sub>2</sub> nanostructures. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 810, 151718	5.7	30
239	Synthesis and size evolution of 1D hydroxyapatite crystals under surfactant-free hydrothermal conditions. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1386, 012076	0.3	
238	The nanostructure of porous cobalt coatings deposited by magnetron sputtering in helium atmosphere. <i>Micron</i> , <b>2018</b> , 108, 49-54	2.3	7
237	Microemulsion Assisted Sol-Gel Method as Approach to Load a Model Anticancer Drug inside Silica Nanoparticles for Controlled Release Applications. <i>Colloids and Interface Science Communications</i> , <b>2018</b> , 24, 13-17	5.4	4
236	Strong activation effect on a ru-co-c thin film catalyst for the hydrolysis of sodium borohydride. <i>Scientific Reports</i> , <b>2018</b> , 8, 9755	4.9	5
235	Nanoporous Pt-based catalysts prepared by chemical dealloying of magnetron-sputtered Pt-Cu thin films for the catalytic combustion of hydrogen. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 235, 168-176	21.8	20
234	The role of cobalt hydroxide in deactivation of thin film Co-based catalysts for sodium borohydride hydrolysis. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 210, 342-351	21.8	19
233	Towards Extending Solar Cell Lifetimes: Addition of a Fluorous Cation to Triple Cation-Based Perovskite Films. <i>ChemSusChem</i> , <b>2017</b> , 10, 3846-3853	8.3	37

232	Pt-impregnated catalysts on powdery SiC and other commercial supports for the combustion of hydrogen under oxidant conditions. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 201, 391-399	21.8	14
231	Investigation of a Pt containing washcoat on SiC foam for hydrogen combustion applications. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 336-343	21.8	41
230	Monolithic supports based on biomorphic SiC for the catalytic combustion of hydrogen. <i>RSC Advances</i> , <b>2016</b> , 6, 66373-66384	3.7	8
229	Tailor-made preparation of Co <sub>A</sub> , Co <sub>B</sub> , and Co catalytic thin films using magnetron sputtering: insights into structure-composition and activation effects for catalyzed NaBH <sub>4</sub> hydrolysis. <i>RSC Advances</i> , <b>2016</b> , 6, 108611-108620	3.7	20
228	Nanoscale characterization of Co and Co-B catalytic coatings before and after catalytic tests for the sodium borohydride hydrolysis <b>2016</b> , 822-823		
227	Nitrogen Nanobubbles in a-SiO <sub>x</sub> N <sub>y</sub> Coatings: Evaluation of Its Physical Properties and Chemical Bonding State by Spatially Resolved Electron Energy-Loss Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 5651-5658	3.8	8
226	Determination of the Anisotropic Elastic Properties of Rocksalt Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> by XRD, Residual Stress, and DFT. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 5624-5629	3.8	6
225	Characterization and Validation of a-Si Magnetron-Sputtered Thin Films as Solid He Targets with High Stability for Nuclear Reactions. <i>ACS Omega</i> , <b>2016</b> , 1, 1229-1238	3.9	8
224	Hydrogen production through sodium borohydride ethanolysis. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 5326-5332	6.7	33
223	STEM-in-SEM high resolution imaging of gold nanoparticles and bivalve tissues in bioaccumulation experiments. <i>Analyst, The</i> , <b>2015</b> , 140, 3082-9	5	18
222	Island-type growth of Au <sub>2</sub> Pt heterodimers: direct visualization of misfit dislocations and strain-relief mechanisms. <i>RSC Advances</i> , <b>2015</b> , 5, 55262-55268	3.7	7
221	Full solution processed mesostructured optical resonators integrating colloidal semiconductor quantum dots. <i>Nanoscale</i> , <b>2015</b> , 7, 16583-9	7.7	8
220	Fabrication of Optical Multilayer Devices from Porous Silicon Coatings with Closed Porosity by Magnetron Sputtering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 13889-97	9.5	10
219	STEM-EELS analysis reveals stable high-density He in nanopores of amorphous silicon coatings deposited by magnetron sputtering. <i>Nanotechnology</i> , <b>2015</b> , 26, 075703	3.4	22
218	Bifunctional, Monodisperse BiPO <sub>4</sub> -Based Nanostars: Photocatalytic Activity and Luminescent Applications. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 3319-3326	3.5	41
217	Shape-defined nanodimers by tailored heterometallic epitaxy. <i>Nanoscale</i> , <b>2014</b> , 6, 11090-7	7.7	12
216	On the formation of the porous structure in nanostructured a-Si coatings deposited by dc magnetron sputtering at oblique angles. <i>Nanotechnology</i> , <b>2014</b> , 25, 355705	3.4	32
215	Chemistry, nanostructure and magnetic properties of Co <sub>2</sub> Ru <sub>3</sub> B <sub>2</sub> nanoalloys. <i>RSC Advances</i> , <b>2014</b> , 4, 46576-46586	3.7	2

214	Supported Co catalysts prepared as thin films by magnetron sputtering for sodium borohydride and ammonia borane hydrolysis. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 158-159, 400-409	21.8	65
213	Impregnation of carbon black for the examination of colloids using TEM. <i>Carbon</i> , <b>2014</b> , 76, 464-468	10.4	10
212	Tomographic heating holder for in situ TEM: study of Pt/C and PtPd/Al <sub>2</sub> O <sub>3</sub> catalysts as a function of temperature. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 982-90	0.5	7
211	Transmission electron microscopy of unstained hybrid Au nanoparticles capped with PPAA (plasma-poly-allylamine): structure and electron irradiation effects. <i>Micron</i> , <b>2014</b> , 67, 1-9	2.3	7
210	A nanoscale characterization with electron microscopy of multilayered CrAlYN coatings: a singular functional nanostructure. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 14-24	0.5	5
209	Simultaneous quantification of light elements in thin films deposited on Si substrates using proton EBS (Elastic Backscattering Spectroscopy). <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 332, 449-453	1.2	8
208	Structure and tribological properties of MoCN-Ag coatings in the temperature range of 25-100°C. <i>Applied Surface Science</i> , <b>2013</b> , 273, 408-414	6.7	61
207	A new bottom-up methodology to produce silicon layers with a closed porosity nanostructure and reduced refractive index. <i>Nanotechnology</i> , <b>2013</b> , 24, 275604	3.4	26
206	Behaviour of Au-citrate nanoparticles in seawater and accumulation in bivalves at environmentally relevant concentrations. <i>Environmental Pollution</i> , <b>2013</b> , 174, 134-41	9.3	76
205	Characterisation of Co@Fe <sub>3</sub> O <sub>4</sub> core@shell nanoparticles using advanced electron microscopy. <i>Nanoscale</i> , <b>2013</b> , 5, 5765-72	7.7	40
204	Exploring the benefits of depositing hard TiN thin films by non-reactive magnetron sputtering. <i>Applied Surface Science</i> , <b>2013</b> , 275, 121-126	6.7	14
203	Magnetron sputtered a-SiO <sub>x</sub> N <sub>y</sub> thin films: A closed porous nanostructure with controlled optical and mechanical properties. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 149, 142-146	5.3	12
202	Nanoecotoxicity effects of engineered silver and gold nanoparticles in aquatic organisms. <i>Trends in Analytical Chemistry</i> , <b>2012</b> , 32, 40-59	14.6	149
201	Deactivation, reactivation and memory effect on CoB catalyst for sodium borohydride hydrolysis operating in high conversion conditions. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 14373-14381	6.7	35
200	New insights into the synergistic effect in bimetallic-boron catalysts for hydrogen generation: The CoRuB system as a case study. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 128, 39-47	21.8	34
199	Microstructural characterization of hydrophobic Ti <sub>1-x</sub> Al <sub>x</sub> N coatings with moth-eye-like surface morphology. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S398-S406	5.7	3
198	Nanoscale mechanically induced structural and electrical changes in Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> films. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 016101	2.5	2
197	Microstructural and chemical characterization of nanostructured TiAlSiN coatings with nanoscale resolution. <i>Microscopy and Microanalysis</i> , <b>2012</b> , 18, 568-81	0.5	10

196	Combined x-ray photoelectron spectroscopy and scanning electron microscopy studies of the LiBH <sub>4</sub> /MgH <sub>2</sub> reactive hydride composite with and without a Ti-based additive. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 014913	2.5	21
195	Boron Compounds as Stabilizers of a Complex Microstructure in a Co-B-based Catalyst for NaBH <sub>4</sub> Hydrolysis. <i>ChemCatChem</i> , <b>2011</b> , 3, 1305-1313	5.2	60
194	A comparative study of the role of additive in the MgH <sub>2</sub> vs. the LiBH <sub>4</sub> /MgH <sub>2</sub> hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 3932-3940	6.7	27
193	Optimized hydrogen generation in a semicontinuous sodium borohydride hydrolysis reactor for a 60 W-scale fuel cell stack. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 4388-4395	8.9	17
192	Endurance of TiAlSiN coatings: Effect of Si and bias on wear and adhesion. <i>Wear</i> , <b>2011</b> , 270, 541-549	3.5	52
191	Comparative investigation of Al- and Cr-doped TiSiCN coatings. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 4640-4648	4.4	37
190	Surface-modified Pd and Au nanoparticles for anti-wear applications. <i>Tribology International</i> , <b>2011</b> , 44, 720-726	4.9	52
189	Magnetometry and electron paramagnetic resonance studies of phosphine- and thiol-capped gold nanoparticles. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 064303	2.5	10
188	Oxidation State and Local Structure of Ti-Based Additives in the Reactive Hydride Composite 2LiBH <sub>4</sub> + MgH <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3309-3317	3.8	63
187	Permanent magnetism in phosphine- and chlorine-capped gold: from clusters to nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2010</b> , 12, 1307-1318	2.3	19
186	Characterization of Ti <sub>1-x</sub> Al <sub>x</sub> N coatings with selective IR reflectivity. <i>Solar Energy</i> , <b>2010</b> , 84, 1397-1401	6.8	21
185	Microstructural study of the LiBH <sub>4</sub> /MgH <sub>2</sub> reactive hydride composite with and without Ti-isopropoxide additive. <i>Acta Materialia</i> , <b>2010</b> , 58, 5683-5694	8.4	65
184	SiO <sub>x</sub> N <sub>y</sub> thin films with variable refraction index: Microstructural, chemical and mechanical properties. <i>Applied Surface Science</i> , <b>2010</b> , 256, 4548-4553	6.7	20
183	Self-lubricating Ti <sub>3</sub> AlN nanocomposite coatings prepared by double magnetron sputtering. <i>Solid State Sciences</i> , <b>2009</b> , 11, 660-670	3.4	37
182	Comparative investigation of TiAlC(N), TiCrAlC(N), and CrAlC(N) coatings deposited by sputtering of phase Ti <sub>2</sub> CrAlC targets. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 3595-3609	4.4	58
181	Tribological carbon-based coatings: An AFM and LFM study. <i>Surface Science</i> , <b>2009</b> , 603, 973-979	1.8	18
180	Thermal Stability and Oxidation Resistance of Nanocomposite TiC/a-C Protective Coatings. <i>Plasma Processes and Polymers</i> , <b>2009</b> , 6, S462-S467	3.4	9
179	Influence of the microstructure on the mechanical and tribological behavior of TiC/a-C nanocomposite coatings. <i>Thin Solid Films</i> , <b>2009</b> , 517, 1662-1671	2.2	140

178	Metal carbide/amorphous C-based nanocomposite coatings for tribological applications. <i>Surface and Coatings Technology</i> , <b>2009</b> , 204, 947-954	4.4	69
177	Vibrational spectroscopy characterization of magnetron sputtered silicon oxide and silicon oxynitride films. <i>Applied Surface Science</i> , <b>2009</b> , 256, 156-164	6.7	10
176	Doping and Alloying Effects on DLC Coatings <b>2008</b> , 311-338		39
175	Catalytic growth of carbon nanotubes on stainless steel: Characterization and frictional properties. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 1853-1857	3.5	25
174	Influence of particle size on electrochemical and gas-phase hydrogen storage in nanocrystalline Mg. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 463, 539-545	5.7	16
173	Surface plasmon resonance and magnetism of thiol-capped gold nanoparticles. <i>Nanotechnology</i> , <b>2008</b> , 19, 175701	3.4	46
172	Influence of the Capping Molecule on the Magnetic Behavior of Thiol-Capped Gold Nanoparticles. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 2768-2771	2	10
171	Microstructural and chemical characterisation techniques for nanostructured and amorphous coatings. <i>EPJ Applied Physics</i> , <b>2008</b> , 43, 333-341	1.1	1
170	Tribological behaviour of titanium carbide/amorphous carbon nanocomposite coatings: From macro to the micro-scale. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 4011-4018	4.4	91
169	Electronic structure, magnetic properties, and microstructural analysis of thiol-functionalized Au nanoparticles: role of chemical and structural parameters in the ferromagnetic behaviour. <i>Journal of Nanoparticle Research</i> , <b>2008</b> , 10, 179-192	2.3	34
168	Vibrational polaritons in thin oxide and nitride films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 2460-2463		1
167	Comparative performance of nanocomposite coatings of TiC or TiN dispersed in a-C matrixes. <i>Surface and Coatings Technology</i> , <b>2008</b> , 203, 756-760	4.4	23
166	Permanent Magnetism in Thiol Capped Nanoparticles Gold and ZnO. <i>Acta Physica Polonica A</i> , <b>2008</b> , 113, 515-520	0.6	10
165	Contribution of electron microscopy techniques to the chemical and structural characterization of TiC/a-C nanocomposite coatings <b>2008</b> , 697-698		
164	Evolution of the microstructure, chemical composition and magnetic behaviour during the synthesis of alkanethiol-capped gold nanoparticles. <i>Acta Materialia</i> , <b>2007</b> , 55, 1723-1730	8.4	21
163	Surface-modified Pd nanoparticles as a superior additive for lubrication. <i>Journal of Nanoparticle Research</i> , <b>2007</b> , 9, 639-645	2.3	42
162	Characterization of nanostructured TiB(N) coatings produced by direct current magnetron sputtering. <i>Thin Solid Films</i> , <b>2007</b> , 515, 3590-3596	2.2	23
161	MAGNETIC PROPERTIES OF ORGANIC COATED GOLD SURFACES. <i>Modern Physics Letters B</i> , <b>2007</b> , 21, 303-319	1.6	11



160	Synthesis of nanocrystalline MgH <sub>2</sub> powder by gas-phase condensation and in situ hydridation: TEM, XPS and XRD study. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 721-724	5.7	25
159	Depth Profiling and Compositional Study of Implanted Surface Layers and Nitride Multilayers by a Combined GDOES, NRA and RBS Analysis. <i>Plasma Processes and Polymers</i> , <b>2007</b> , 4, S851-S856	3.4	1
158	In Situ Energy-Dispersive XAS and XRD Study of the Superior Hydrogen Storage System MgH <sub>2</sub> /Nb <sub>2</sub> O <sub>5</sub> . <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 10700-10706	3.8	30
157	Hydrogen sorption improvement of nanocrystalline MgH <sub>2</sub> by Nb <sub>2</sub> O <sub>5</sub> nanoparticles. <i>Scripta Materialia</i> , <b>2006</b> , 54, 1293-1297	5.6	109
156	Room temperature permanent magnetism in thiol-capped Pd-rich nanoparticles. <i>Nanotechnology</i> , <b>2006</b> , 17, 1449-1453	3.4	20
155	Giant magnetic anisotropy at the nanoscale: Overcoming the superparamagnetic limit. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	65
154	Structural characterization and oxidative dehydrogenation activity of V <sub>2</sub> O <sub>5</sub> /Ce(x)Zr(1-x)O <sub>2</sub> /SiO <sub>2</sub> catalysts. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 9140-7	3.4	58
153	Magnetic and microstructural analysis of palladium nanoparticles with different capping systems. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	59
152	Nb <sub>2</sub> O <sub>5</sub> "pathway effect" on hydrogen sorption in Mg. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 7845-50,4	3.4	93
151	Gold and gold-iron oxide magnetic glyconanoparticles: synthesis, characterization and magnetic properties. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 13021-8	3.4	45
150	Palladium nanoparticles obtained by mechanical milling. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 1201-1205	1.6	7
149	MgH <sub>2</sub> with Nb <sub>2</sub> O <sub>5</sub> as additive, for hydrogen storage: Chemical, structural and kinetic behavior with heating. <i>Acta Materialia</i> , <b>2006</b> , 54, 105-110	8.4	220
148	Chemical and microstructural study of the oxygen passivation behaviour of nanocrystalline Mg and MgH <sub>2</sub> . <i>Applied Surface Science</i> , <b>2006</b> , 252, 2334-2345	6.7	104
147	Structural characterization of CeO(2)-ZrO(2)/TiO(2) and V(2)O(5)/CeO(2)-ZrO(2)/TiO(2) mixed oxide catalysts by XRD, Raman spectroscopy, HREM, and other techniques. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 1781-7	3.4	32
146	Gold nanoparticles with different capping systems: an electronic and structural XAS analysis. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 8761-6	3.4	60
145	Surface stabilized nanosized Ce(x)Zr(1-x)O(2) solid solutions over SiO(2): characterization by XRD, Raman, and HREM techniques. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 13545-52	3.4	46
144	Surface plasmon resonance of capped Au nanoparticles. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	95
143	Structural and microtribological studies of TiO <sub>2</sub> based nanocomposite coatings prepared by reactive sputtering. <i>Thin Solid Films</i> , <b>2005</b> , 472, 64-70	2.2	44

142	A nanoscale approach for the characterization of amorphous carbon-based lubricant coatings. <i>Surface and Coatings Technology</i> , <b>2005</b> , 200, 40-45	4.4	14
141	Mechanical properties of nanocrystalline TiB <sub>2</sub> (N) coatings produced by DC magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2005</b> , 200, 734-738	4.4	14
140	Magnetron sputtering of Cr(Al)N coatings: Mechanical and tribological study. <i>Surface and Coatings Technology</i> , <b>2005</b> , 200, 192-197	4.4	82
139	Improvement in H <sub>2</sub> -sorption kinetics of MgH <sub>2</sub> powders by using Fe nanoparticles generated by reactive FeF <sub>3</sub> addition. <i>Scripta Materialia</i> , <b>2005</b> , 52, 719-724	5.6	146
138	Tailored synthesis of TiC <sub>0.5</sub> -C nanocomposite tribological coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2005</b> , 23, 1732-1736	2.9	30
137	Mechanical behavior and oxidation resistance of Cr(Al)N coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2005</b> , 23, 681-686	2.9	62
136	Characterization of oxygen passivated iron nanoparticles and thermal evolution to Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Materials Science</i> , <b>2004</b> , 39, 4877-4885	4.3	22
135	Microstructural characterization of Ti <sub>0.5</sub> Al <sub>0.5</sub> N/CN <sub>x</sub> gradient-multilayered coatings. <i>Surface and Coatings Technology</i> , <b>2004</b> , 180-181, 526-532	4.4	11
134	Characterisation and magnetic behaviour of nickel nanoparticles encapsulated in carbon. <i>Acta Materialia</i> , <b>2004</b> , 52, 2165-2171	8.4	24
133	Depth profiling of industrial surface treatments by rf and dc glow discharge spectrometry. <i>Applied Surface Science</i> , <b>2004</b> , 235, 97-102	6.7	20
132	Permanent magnetism, magnetic anisotropy, and hysteresis of thiol-capped gold nanoparticles. <i>Physical Review Letters</i> , <b>2004</b> , 93, 087204	7.4	472
131	Microstructural and Chemical Characterisation of Metal Particles Nanostructures. <i>Materials Transactions</i> , <b>2003</b> , 44, 2055-2061	1.3	2
130	Gold glyconanoparticles: synthetic polyvalent ligands mimicking glycocalyx-like surfaces as tools for glycobiological studies. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 1909-21	4.8	225
129	Preparation, microstructural characterisation and tribological behaviour of CN coatings. <i>Surface and Coatings Technology</i> , <b>2003</b> , 163-164, 527-534	4.4	29
128	Structural modifications of silicon-doped carbon nitride films during post-deposition annealing. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 1055-1060	3.5	9
127	Ferromagnetism in fcc twinned 2.4 nm size Pd nanoparticles. <i>Physical Review Letters</i> , <b>2003</b> , 91, 237203	7.4	157
126	Gold Glyconanoparticles as Building Blocks for Nanomaterials Design. <i>Advanced Materials</i> , <b>2002</b> , 14, 585-24		45
125	Characterization of Nanocomposite Coatings in the System TiB <sub>2</sub> (N) by Analytical Electron Microscopy and X-Ray Photoelectron Spectroscopy. <i>Monatshefte Für Chemie</i> , <b>2002</b> , 133, 837-848	1.4	15



124	Successive ion implantation of high doses of carbon and nitrogen on steels. <i>Surface and Coatings Technology</i> , <b>2002</b> , 158-159, 630-635	4.4	19
123	Tribological and mechanical properties of CN <sub>x</sub> - and SiCN <sub>x</sub> -TiN/Ti multilayered systems grown onto steel. <i>Vacuum</i> , <b>2002</b> , 67, 551-558	3.7	9
122	Characterization of magnetic nanoparticles using energy-selected transmission electron microscopy. <i>Microscopy and Microanalysis</i> , <b>2002</b> , 8, 403-11	0.5	2
121	Tribological behaviour and chemical characterisation of Si-free and Si-containing carbon nitride coatings. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 169-175	3.5	23
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