

# Juan P Espins

## List of Publications by Citations

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203  
papers

5,831  
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39  
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65  
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209  
ext. papers

6,241  
ext. citations

4.2  
avg, IF

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L-index

#	Paper	IF	Citations
203	Interface Effects for Cu, CuO, and Cu <sub>2</sub> O Deposited on SiO <sub>2</sub> and ZrO <sub>2</sub> . XPS Determination of the Valence State of Copper in Cu/SiO <sub>2</sub> and Cu/ZrO <sub>2</sub> Catalysts. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 6921-6929	3.4	465
202	The state of the oxygen at the surface of polycrystalline cobalt oxide. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>1995</b> , 71, 61-71	1.7	284
201	XPS study of oxidation processes of CeO <sub>x</sub> defective layers. <i>Applied Surface Science</i> , <b>2000</b> , 158, 164-171	6.7	211
200	Spectroscopic characterization of quantum-sized TiO <sub>2</sub> supported on silica: influence of size and TiO <sub>2</sub> -SiO <sub>2</sub> interface composition. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 1484-1490		192
199	XPS investigation of the reaction of carbon with NO, O <sub>2</sub> , N <sub>2</sub> and H <sub>2</sub> O plasmas. <i>Carbon</i> , <b>2007</b> , 45, 89-96	10.4	191
198	XPS analysis of down stream plasma treated wool: Influence of the nature of the gas on the surface modification of wool. <i>Applied Surface Science</i> , <b>2005</b> , 252, 1417-1429	6.7	89
197	Compositional changes induced by 3.5 keV Ar <sup>+</sup> ion bombardment in Ni-Ti oxide systems. <i>Surface Science</i> , <b>1989</b> , 220, 368-380	1.8	88
196	Elastic and orbital effects on thickness-dependent properties of manganite thin films. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	87
195	Origin of Light-Induced Photophysical Effects in Organic Metal Halide Perovskites in the Presence of Oxygen. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3891-3896	6.4	84
194	XPS study of interface and ligand effects in supported Cu <sub>2</sub> O and CuO nanometric particles. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 7758-65	3.4	82
193	Competing misfit relaxation mechanisms in epitaxial correlated oxides. <i>Physical Review Letters</i> , <b>2013</b> , 110, 107206	7.4	76
192	Control of the stoichiometry in the deposition of cobalt oxides on SiO <sub>2</sub> . <i>Surface and Interface Analysis</i> , <b>1998</b> , 26, 62-71	1.5	76
191	XRD, XPS and <sup>119</sup> Sn NMR study of tin sulfides obtained by using chemical vapor transport methods. <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 175, 359-365	3.3	74
190	Interface effects for metal oxide thin films deposited on another metal oxide II. SnO <sub>2</sub> deposited on SiO <sub>2</sub> . <i>Surface Science</i> , <b>1996</b> , 366, 545-555	1.8	74
189	XPS study of the surface carbonation/hydroxylation state of metal oxides. <i>Applied Surface Science</i> , <b>1990</b> , 45, 103-108	6.7	73
188	Interpretation of the Binding Energy and Auger Parameter Shifts Found by XPS for TiO <sub>2</sub> Supported on Different Surfaces. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 16255-16262		67
187	Preparation of transparent and conductive Al-doped ZnO thin films by ECR plasma enhanced CVD. <i>Surface and Coatings Technology</i> , <b>2002</b> , 151-152, 289-293	4.4	64

186	Oxidation and diffusion processes in nickel-titanium oxide systems. <i>Surface Science</i> , <b>1993</b> , 295, 402-410	1.8	60
185	Growth of ZnS thin films obtained by chemical spray pyrolysis: The influence of precursors. <i>Journal of Crystal Growth</i> , <b>2005</b> , 285, 66-75	1.6	59
184	Chemical State of Nitrogen and Visible Surface and Schottky Barrier Driven Photoactivities of N-Doped TiO <sub>2</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13341-13351	3.8	58
183	SiO <sub>2</sub> /TiO <sub>2</sub> thin films with variable refractive index prepared by ion beam induced and plasma enhanced chemical vapor deposition. <i>Thin Solid Films</i> , <b>2006</b> , 500, 19-26	2.2	57
182	Influence of the chemical and electronic structure on the electrical behavior of zirconium oxynitride films. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 104907	2.5	56
181	Electronic state characterization of SiO <sub>x</sub> thin films prepared by evaporation. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 113714	2.5	56
180	Influence of thickness and coatings morphology in the antimicrobial performance of zinc oxide coatings. <i>Applied Surface Science</i> , <b>2014</b> , 307, 548-557	6.7	52
179	Structure, microstructure and electronic characterisation of the Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> interface by electron spectroscopies. <i>Surface Science</i> , <b>2000</b> , 457, 199-210	1.8	51
178	Surface chemistry and germination improvement of Quinoa seeds subjected to plasma activation. <i>Scientific Reports</i> , <b>2017</b> , 7, 5924	4.9	50
177	Synthesis of SiO <sub>2</sub> and SiO <sub>x</sub> CyHz thin films by microwave plasma CVD. <i>Thin Solid Films</i> , <b>2001</b> , 401, 150-158	2.2	48
176	Quantification of the H content in diamondlike carbon and polymeric thin films by reflection electron energy loss spectroscopy. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 084101	3.4	47
175	Chemical stability of Si <sup>n+</sup> species in SiO <sub>x</sub> (x. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2001</b> , 19, 136-144	2.9	47
174	Effect of visible light on the water contact angles on illuminated oxide semiconductors other than TiO <sub>2</sub> . <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 2944-2949	6.4	46
173	Wetting angles and photocatalytic activities of illuminated TiO <sub>2</sub> thin films. <i>Catalysis Today</i> , <b>2009</b> , 143, 347-354	5.3	45
172	Interface effects for metal oxide thin films deposited on another metal oxide I. SnO deposited on SiO <sub>2</sub> . <i>Surface Science</i> , <b>1996</b> , 350, 123-135	1.8	45
171	Plasma catalysis with perovskite-type catalysts for the removal of NO and CH <sub>4</sub> from combustion exhausts. <i>Journal of Catalysis</i> , <b>2007</b> , 247, 288-297	7.3	44
170	An XPS study of the mixing effects induced by ion bombardment in composite oxides. <i>Applied Surface Science</i> , <b>1993</b> , 68, 453-459	6.7	44
169	Bonding-state characterization of constituent elements in phyllosilicate minerals by XPS and NMR. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 3471-3476		43

168	An XPS study of the Ar <sup>+</sup> -induced reduction of Ni <sup>2+</sup> in NiO and Ni-Si oxide systems. <i>Applied Surface Science</i> , <b>1991</b> , 51, 19-26	6.7	42
167	X-ray Photoelectron Spectroscopy and Infrared Study of the Nature of Cu Species in Cu/ZrO <sub>2</sub> de-NO <sub>x</sub> Catalysts. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 10185-10190	3.4	40
166	Nanostructural control in solution-derived epitaxial Ce(1-x)Gd(x)O(2-y) films. <i>Nanotechnology</i> , <b>2008</b> , 19, 395601	3.4	39
165	SnO <sub>2</sub> thin films prepared by ion beam induced CVD: preparation and characterization by X-ray absorption spectroscopy. <i>Thin Solid Films</i> , <b>1999</b> , 353, 113-123	2.2	39
164	Diffraction and XPS Studies of Misfit Layer Chalcogenides Intercalated with Cobaltocene. <i>Chemistry of Materials</i> , <b>1995</b> , 7, 1576-1582	9.6	39
163	Low temperature synthesis of dense SiO <sub>2</sub> thin films by ion beam induced chemical vapor deposition. <i>Thin Solid Films</i> , <b>2001</b> , 396, 9-15	2.2	37
162	Preillumination of TiO <sub>2</sub> and Ta <sub>2</sub> O <sub>5</sub> photoactive thin films as a tool to tailor the synthesis of composite materials. <i>Langmuir</i> , <b>2008</b> , 24, 9460-9	4	36
161	An in situ XAS study of Cu/ZrO catalysts under de-NO reaction conditions. <i>Journal of Catalysis</i> , <b>2005</b> , 235, 295-301	7.3	36
160	Interface effects for metal oxide thin films deposited on another metal oxide III. SnO and SnO <sub>2</sub> deposited on MgO (100) and the use of chemical state plots. <i>Surface Science</i> , <b>1996</b> , 366, 556-563	1.8	36
159	Synthesis, through pyrolysis of aerosols, of YIn <sub>1-x</sub> MnxO <sub>3</sub> blue pigments and their efficiency for colouring glazes. <i>Dyes and Pigments</i> , <b>2011</b> , 91, 501-507	4.6	35
158	Growth of silver on ZnO and SnO <sub>2</sub> thin films intended for low emissivity applications. <i>Applied Surface Science</i> , <b>2013</b> , 268, 507-515	6.7	34
157	XPS and ISS study of NiTiO <sub>3</sub> and PbTiO <sub>3</sub> subjected to low-energy ion bombardment. I. Influence of the type of ion (Ar <sup>+</sup> and O). <i>Surface and Interface Analysis</i> , <b>1993</b> , 20, 941-948	1.5	34
156	Spectroscopic characterisation and photochemical behaviour of a titanium hydroxyperoxo compound. <i>Journal of the Chemical Society Faraday Transactions I</i> , <b>1989</b> , 85, 1279		34
155	Vertically Aligned Hybrid Core/Shell Semiconductor Nanowires for Photonics Applications. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5981-5989	15.6	33
154	Ar stabilisation of the cubic/tetragonal phases of ZrO <sub>2</sub> in thin films prepared by ion beam induced chemical vapour deposition. <i>Thin Solid Films</i> , <b>2001</b> , 389, 34-42	2.2	33
153	Structural characterization of partially amorphous SnO <sub>2</sub> nanoparticles by factor analysis of XAS and FT-IR spectra. <i>Solid State Ionics</i> , <b>1999</b> , 116, 117-127	3.3	33
152	Ion beam induced chemical vapor deposition for the preparation of thin film oxides. <i>Thin Solid Films</i> , <b>1994</b> , 241, 198-201	2.2	33
151	Determination of the hydrogen content in diamond-like carbon and polymeric thin films by reflection electron energy loss spectroscopy. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 107-111	3.5	32

150	Ion beam induced chemical vapor deposition procedure for the preparation of oxide thin films. I. Preparation and characterization of TiO <sub>2</sub> thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1994</b> , 12, 2728-2732	2.9	32
149	Synthesis of SnO and SnO <sub>2</sub> nanocrystalline powders by the gas phase condensation method. <i>Sensors and Actuators B: Chemical</i> , <b>1996</b> , 31, 29-32	8.5	30
148	Band Gap Narrowing versus Formation of Electronic States in the Gap in NiO <sub>2</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 22546-22557	3.8	29
147	Wetting Angles on Illuminated Ta <sub>2</sub> O <sub>5</sub> Thin Films with Controlled Nanostructure. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3775-3784	3.8	29
146	Surface roughness and island formation effects in ARXPS quantification. <i>Surface and Interface Analysis</i> , <b>2004</b> , 36, 788-792	1.5	29
145	Growth of lanthanum oxide films for application as a gate dielectric in CMOS technology. <i>Materials Science in Semiconductor Processing</i> , <b>2004</b> , 7, 231-236	4.3	29
144	Morphology and surface-plasmon resonance of silver nanoparticles sandwiched between Si <sub>3</sub> N <sub>4</sub> and BN layers. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 114316	2.5	29
143	XPS intensities and binding energy shifts as metal dispersion parameters in Ni/SiO <sub>2</sub> catalysts. <i>Surface and Interface Analysis</i> , <b>1990</b> , 16, 375-379	1.5	29
142	Formation of Subsurface W <sup>5+</sup> Species in Gasochromic Pt/WO <sub>3</sub> Thin Films Exposed to Hydrogen. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 15719-15727	3.8	28
141	Incorporation and thermal evolution of rhodamine 6G dye molecules adsorbed in porous columnar optical SiO <sub>2</sub> thin films. <i>Langmuir</i> , <b>2009</b> , 25, 9140-8	4	28
140	Synchrotron Photoemission Characterization of TiO <sub>2</sub> Supported on SiO <sub>2</sub> . <i>Langmuir</i> , <b>1998</b> , 14, 4908-4914	4	28
139	Adsorption and oxidation of K deposited on graphite. <i>Surface Science</i> , <b>1996</b> , 364, 253-265	1.8	28
138	The state of nickel in Ni/SiO <sub>2</sub> and Ni/TiO <sub>2</sub> -calcined catalysts. <i>Journal of Catalysis</i> , <b>1992</b> , 136, 415-422	7.3	28
137	Hydrogen-induced titanium oxide migration onto metallic rhodium in real rhodium/titania catalysts. <i>The Journal of Physical Chemistry</i> , <b>1987</b> , 91, 6625-6628		28
136	Structural aspects of the interaction of methyl thiol and dimethyldisulphide with Ni(111). <i>Journal of Physics Condensed Matter</i> , <b>1995</b> , 7, 7781-7796	1.8	27
135	New Copper wide range nanosensor electrode prepared by physical vapor deposition at oblique angles for the non-enzimatic determination of glucose. <i>Electrochimica Acta</i> , <b>2015</b> , 169, 195-201	6.7	26
134	Ion-Beam-Induced CVD: An Alternative Method of Thin Film Preparation. <i>Chemical Vapor Deposition</i> , <b>1997</b> , 3, 219-226		26
133	Effect of texture and annealing treatments in SnO <sub>2</sub> and Pd/SnO <sub>2</sub> gas sensor materials. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 61, 23-32	8.5	26

132	Chemistry and Electrocatalytic Activity of Nanostructured Nickel Electrodes for Water Electrolysis. <i>ACS Catalysis</i> , <b>2020</b> , 10, 6159-6170	13.1	25
131	Monitoring Interface Interactions by XPS at Nanometric Tin Oxides Supported on Al <sub>2</sub> O <sub>3</sub> and Sb <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9905-9913	3.4	24
130	Ion beam effects in SiO <sub>x</sub> (x. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 187, 465-474	1.2	24
129	Degradation of LaMnO <sub>3</sub> surface layer in LaMnO <sub>3</sub> /metal interface. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 859-861	3.4	24
128	Influence of irrigation conditions in the germination of plasma treated Nasturtium seeds. <i>Scientific Reports</i> , <b>2018</b> , 8, 16442	4.9	24
127	Factors that Contribute to the Growth of Ag@TiO <sub>2</sub> Nanofibers by Plasma Deposition. <i>Plasma Processes and Polymers</i> , <b>2007</b> , 4, 515-527	3.4	23
126	Substrate Effects and Chemical State Plots for the XPS Analysis of Supported TiO <sub>2</sub> Catalysts. <i>Surface and Interface Analysis</i> , <b>1997</b> , 25, 292-294	1.5	22
125	Structure and chemistry of SiO <sub>x</sub> (x. <i>Vacuum</i> , <b>2002</b> , 67, 491-499	3.7	22
124	X-ray photoelectron spectroscopy study of the first stages of ZnO growth and nanostructure dependence of the effects of polarization at ZnO/SiO <sub>2</sub> and ZnO/Al <sub>2</sub> O <sub>3</sub> interfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2003</b> , 21, 1393-1398	2.9	22
123	Contribution of the x-ray absorption spectroscopy to study TiO <sub>2</sub> thin films prepared by ion beam induced chemical vapor deposition. <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 591-597	2.5	22
122	Analysis of multifunctional titanium oxycarbide films as a function of oxygen addition. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 2525-2534	4.4	21
121	Air- and light-stable superhydrophobic colored surfaces based on supported organic nanowires. <i>Langmuir</i> , <b>2010</b> , 26, 1487-92	4	21
120	Precise determination of metal effective work function and fixed oxide charge in MOS capacitors with high- $\epsilon$ dielectric. <i>Materials Science in Semiconductor Processing</i> , <b>2006</b> , 9, 969-974	4.3	21
119	Resonant photoemission characterization of SnO. <i>Physical Review B</i> , <b>1999</b> , 60, 11171-11179	3.3	21
118	Hydrophobicity, Freezing Delay, and Morphology of Laser-Treated Aluminum Surfaces. <i>Langmuir</i> , <b>2019</b> , 35, 6483-6491	4	20
117	In Operando X-ray Absorption Spectroscopy Analysis of Structural Changes During Electrochemical Cycling of WO <sub>3</sub> and W <sub>x</sub> Si <sub>y</sub> O <sub>z</sub> Amorphous Electrochromic Thin Film Cathodes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 644-652	3.8	20
116	Oxidation of molybdenum surfaces by reactive oxygen plasma and O <sub>2</sub> <sup>+</sup> bombardment: an auger and XPS study. <i>Surface and Interface Analysis</i> , <b>1998</b> , 26, 235-241	1.5	20
115	Microstructure and transport properties of ceria and samaria doped ceria thin films prepared by EBEBAD. <i>Surface and Coatings Technology</i> , <b>2007</b> , 202, 1256-1261	4.4	20

114	Characterization of rare earth oxides based MOSFET gate stacks prepared by metal-organic chemical vapour deposition. <i>Materials Science in Semiconductor Processing</i> , <b>2006</b> , 9, 1065-1072	4.3	20
113	Enhanced Stability of Perovskite Solar Cells Incorporating Dopant-Free Crystalline Spiro-OMeTAD Layers by Vacuum Sublimation. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1901524	21.8	20
112	In situ XPS studies of laser induced surface cleaning and nitridation of Ti. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 1486-1492	4.4	19
111	Growth of gadolinium oxide films for advanced MOS structure. <i>Microelectronic Engineering</i> , <b>2005</b> , 80, 154-157	2.5	19
110	Charging and mixing effects during the XPS analysis of mixtures of oxides. <i>Surface and Interface Analysis</i> , <b>1994</b> , 22, 111-114	1.5	19
109	In Situ Determination of the Water Condensation Mechanisms on Superhydrophobic and Superhydrophilic Titanium Dioxide Nanotubes. <i>Langmuir</i> , <b>2017</b> , 33, 6449-6456	4	18
108	Enhanced photoactivity in bilayer films with buried rutile-anatase heterojunctions. <i>ChemPhysChem</i> , <b>2011</b> , 12, 191-6	3.2	18
107	121Sb Mössbauer and X-ray Photoelectron Spectroscopy Studies of the Electronic Structure of Some Antimony Misfit Layer Compounds. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 1393-1398	9.6	18
106	Electron temperature measurement in a slot antenna 2.45 GHz microwave plasma source. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2001</b> , 19, 410		18
105	Soft plasma processing of organic nanowires: a route for the fabrication of 1D organic heterostructures and the template synthesis of inorganic 1D nanostructures. <i>Nanoscale</i> , <b>2011</b> , 3, 4554-977	7.7	17
104	X-ray photoelectron spectroscopy study of the nucleation processes and chemistry of CdS thin films deposited by sublimation on different solar cell substrate materials. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2006</b> , 24, 919-928	2.9	17
103	Corrosion resistant ZrO <sub>2</sub> thin films prepared at room temperature by ion beam induced chemical vapour deposition. <i>Surface and Coatings Technology</i> , <b>2002</b> , 151-152, 449-453	4.4	17
102	Anomalous behaviour in resonant Auger emission of SiO <sub>x</sub> thin films. <i>Surface Science</i> , <b>1999</b> , 436, 202-212	1.8	17
101	Role of hydrogen in the mobility of phases in Ni <sub>3</sub> TiO <sub>x</sub> systems. <i>Journal of Catalysis</i> , <b>1991</b> , 131, 51-59	7.3	17
100	Non-destructive depth compositional profiles by XPS peak-shape analysis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 396, 2757-68	4.4	16
99	Room temperature synthesis of porous SiO <sub>2</sub> thin films by plasma enhanced chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 1275-1284	2.9	16
98	The Auger parameter and the study of chemical and electronic interactions at the Sb <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> and Sb <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> interfaces. <i>Surface Science</i> , <b>2003</b> , 537, 228-240	1.8	16
97	Electronic interactions at SiO <sub>2</sub> /M <sub>2</sub> O (M?: Al, Ti) oxide interfaces. <i>Surface Science</i> , <b>2001</b> , 482-485, 680-686	1.8	16

96	Structural characterization of PbTiO <sub>3</sub> thin films prepared by ion beam induced CVD and evaporation of lead. <i>Thin Solid Films</i> , <b>1996</b> , 272, 99-106	2.2	16
95	Depth profiling of catalyst samples: An XPS-based model for the sputtering behavior of powder materials. <i>Journal of Catalysis</i> , <b>1991</b> , 130, 627-641	7.3	16
94	Different oxidation states of polycrystalline molybdenum treated by O <sub>2</sub> -plasma or O <sub>2</sub> -ion bombardment. <i>Surface Science</i> , <b>1998</b> , 402-404, 174-177	1.8	15
93	First nucleation steps of vanadium oxide thin films studied by XPS inelastic peak shape analysis. <i>Applied Surface Science</i> , <b>2005</b> , 252, 189-195	6.7	15
92	Amorphisation and related structural effects in thin films prepared by ion beam assisted methods. <i>Surface and Coatings Technology</i> , <b>2000</b> , 125, 116-123	4.4	15
91	Electronic interaction of Ni particles with TiO <sub>2</sub> and SiO <sub>2</sub> . <i>Surface Science</i> , <b>1991</b> , 251-252, 1012-1017	1.8	15
90	XPS study of lutetium oxide samples with different hydration/carbonation degrees as a function of the preparation method. <i>Applied Surface Science</i> , <b>1987</b> , 29, 40-48	6.7	15
89	XPS primary excitation spectra of Zn 2p, Fe 2p, and Ce 3d from ZnO, Fe <sub>2</sub> O <sub>3</sub> , and CeO <sub>2</sub> . <i>Surface and Interface Analysis</i> , <b>2019</b> , 51, 353-360	1.5	15
88	Optical properties of zirconium oxynitride films: The effect of composition, electronic and crystalline structures. <i>Applied Surface Science</i> , <b>2015</b> , 358, 660-669	6.7	14
87	Vertical and tilted Ag-NPs@ZnO nanorods by plasma-enhanced chemical vapour deposition. <i>Nanotechnology</i> , <b>2012</b> , 23, 255303	3.4	14
86	Rhodamine 6G and 800 J-heteroaggregates with enhanced acceptor luminescence (HEAL) adsorbed in transparent SiO <sub>2</sub> GLAD thin films. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7071-82	3.6	14
85	Preparation and characterization of Al-Ti mixed oxide thin films. <i>Surface and Coatings Technology</i> , <b>1998</b> , 100-101, 142-145	4.4	14
84	Using ion beams to tune the nanostructure and optical response of co-deposited Ag : BN thin films. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 4614-4620	3	14
83	Correlation between optical properties and electronic parameters for mixed oxide thin films. <i>Surface and Interface Analysis</i> , <b>2006</b> , 38, 752-756	1.5	14
82	Synthesis and Characterization of Diamine Intercalation Compounds of SnS <sub>2</sub> Single Crystals. <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 150, 391-398	3.3	14
81	XAS and XRD structural studies of titanium oxide thin films prepared by ion beam induced CVD. <i>Thin Solid Films</i> , <b>1994</b> , 241, 175-178	2.2	14
80	The role of oxygen vacancies during the decomposition of RhCl <sub>3</sub> /TiO <sub>2</sub> precursor: study by XPS, IR, EPR and NMR.. <i>Catalysis Today</i> , <b>1988</b> , 2, 663-673	5.3	14
79	XPS and TRP/TPO Study of the behaviour of rhodium particles supported on TiO <sub>2</sub> . <i>Surface and Interface Analysis</i> , <b>1988</b> , 12, 247-252	1.5	14



78	Use of XAS and chemical probes to study the structural damage induced in oxide ceramics by bombardment with low-energy ions. <i>Surface and Interface Analysis</i> , <b>1994</b> , 21, 418-424	1.5	13
77	Type of precursor and synthesis of silicon oxycarbide (SiO <sub>x</sub> C <sub>y</sub> H) thin films with a surfatron microwave oxygen/argon plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2006</b> , 24, 988-994	2.9	12
76	Characterization of Sb <sub>2</sub> O <sub>3</sub> subjected to different ion and plasma surface treatments. <i>Surface and Interface Analysis</i> , <b>2003</b> , 35, 256-262	1.5	12
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74	Room temperature synthesis of SiO <sub>2</sub> thin films by ion beam induced and plasma enhanced CVD. <i>Surface and Coatings Technology</i> , <b>2001</b> , 142-144, 856-860	4.4	12
73	Experimental Evidences of New Nitrogen-Containing Phases in Nitrided Steels. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 3220-3222	9.6	12
72	Spectroscopic characterisation and chemical reactivity of silicon monoxide layers deposited on Cu(100). <i>Surface Science</i> , <b>2000</b> , 458, 229-238	1.8	12
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68	Enhancement of visible light-induced surface photo-activity of nanostructured NiO thin films modified by ion implantation. <i>Chemical Physics Letters</i> , <b>2013</b> , 582, 95-99	2.5	11
67	Characterisation by X-ray absorption spectroscopy of oxide thin films prepared by ion beam-induced CVD. <i>Thin Solid Films</i> , <b>2000</b> , 377-378, 460-466	2.2	11
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65	SiO <sub>x</sub> by magnetron sputtered revisited: Tailoring the photonic properties of multilayers. <i>Applied Surface Science</i> , <b>2019</b> , 488, 791-800	6.7	10
64	Nitridation of nanocrystalline TiO <sub>2</sub> thin films by treatment with ammonia. <i>Thin Solid Films</i> , <b>2011</b> , 519, 3587-3595	2.2	10
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11	Chemical effects in TiO <sub>2</sub> and titanates due to bombardment with Ar <sup>+</sup> and O <sup>+2</sup> ions of different energies (3.5-10 keV). <i>Applied Physics A: Materials Science and Processing</i> , <b>1996</b> , 63, 237-242	2.6	2
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