AgustÃ-n R. GonzÃ¡lez-Elipe

List of Publications by Year
in descending order

510 papers	16,047 citations	26630 56 h-index	39675 94 g-index
532 all docs	532 docs citations	532 times ranked	16819 citing authors

#	Article	IF	Citations
1	Perspectives on oblique angle deposition of thin films: From fundamentals to devices. Progress in Materials Science, 2016, 76, 59-153.	32.8	564
2	Interface Effects for Cu, CuO, and Cu2O Deposited on SiO2and ZrO2. XPS Determination of the Valence State of Copper in Cu/SiO2and Cu/ZrO2Catalysts. Journal of Physical Chemistry B, 2002, 106, 6921-6929.	2.6	526
3	Preparation and characterization of TiO2 photocatalysts supported on various rigid supports (glass,) Tj ETQq1 1 0.784314 rgBT /Over Applied Catalysis B: Environmental, 1995, 7, 49-63.	20.2	475
4	Characterization and photocatalytic activity in aqueous medium of TiO2 and Ag-TiO2 coatings on quartz. Applied Catalysis B: Environmental, 1997, 13, 219-228.	20.2	415
5	The state of the oxygen at the surface of polycrystalline cobalt oxide. Journal of Electron Spectroscopy and Related Phenomena, 1995, 71, 61-71.	1.7	319
6	XPS study of oxidation processes of CeOx defective layers. Applied Surface Science, 2000, 158, 164-171.	6.1	248
7	XPS investigation of the reaction of carbon with NO, O2, N2 and H2O plasmas. Carbon, 2007, 45, 89-96.	10.3	222
8	Spectroscopic characterization of quantum-sized TiO2 supported on silica: influence of size and TiO2-SiO2 interface composition. The Journal of Physical Chemistry, 1995, 99, 1484-1490.	2.9	209
9	Structural, Optical, and Photoelectrochemical Properties of Mn+â^'TiO2 Model Thin Film Photocatalysts. Journal of Physical Chemistry B, 2004, 108, 17466-17476.	2.6	164
10	Photo-adsorption and photo-desorption of oxygen on highly hydroxylated TiO2 surfaces. Part 2.â€"Study of radical intermediates by electron paramagnetic resonance. Journal of the Chemical Society Faraday Transactions I, 1979, 75, 748.	1.0	140
11	An update of argon inelastic cross sections for plasma discharges. Journal Physics D: Applied Physics, 2005, 38, 1588-1598.	2.8	129
12	Response of Nanoparticle-Based One-Dimensional Photonic Crystals to Ambient Vapor Pressure. Langmuir, 2008, 24, 9135-9139.	3.5	114
13	Hydrogen production by reforming of hydrocarbons and alcohols in a dielectric barrier discharge. Journal of Power Sources, 2007, 169, 140-143.	7.8	112
14	Sorption Properties of Mesoporous Multilayer Thin Films. Journal of Physical Chemistry C, 2008, 112, 3157-3163.	3.1	110
15	Spectroscopic characterization of Tio2/SiO2 catalysts. Journal of Catalysis, 1988, 112, 489-494.	6.2	109
16	Efficient synthesis of ammonia from N₂and H₂alone in a ferroelectric packed-bed DBD reactor. Plasma Sources Science and Technology, 2015, 24, 065011.	3.1	106
17	Structure determination of Ni(111)c(4 Ã— 2)-CO and its implications for the interpretation of vibrational spectroscopic data. Surface Science, 1994, 311, 337-348.	1.9	105
18	Use of factor analysis and XPS to study defective nickel oxide. The Journal of Physical Chemistry, 1992, 96, 3080-3086.	2.9	100

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19	Compositional changes induced by 3.5 keV Ar+ ion bombardment in Ni-Ti oxide systems. Surface Science, 1989, 220, 368-380.	1.9	97
20	XPS analysis of down stream plasma treated wool: Influence of the nature of the gas on the surface modification of wool. Applied Surface Science, 2005, 252, 1417-1429.	6.1	96
21	Non-enzymatic Glucose electrochemical sensor made of porous NiO thin films prepared by reactive magnetron sputtering at oblique angles. Electrochimica Acta, 2016, 201, 38-44.	5.2	95
22	XPS Study of Interface and Ligand Effects in Supported Cu2O and CuO Nanometric Particles. Journal of Physical Chemistry B, 2005, 109, 7758-7765.	2.6	94
23	Enhanced gas sensing performance of TiO2 functionalized magneto-optical SPR sensors. Journal of Materials Chemistry, 2011, 21, 16049.	6.7	91
24	A photoelectron diffraction study of the structure of PF3 adsorbed on Ni{in111}. Chemical Physics Letters, 1992, 199, 625-630.	2.6	90
25	Single local site structure for vibrationally distinct adsorption states: NO on Ni(111). Chemical Physics Letters, 1992, 192, 259-264.	2.6	90
26	Reversible Superhydrophobic to Superhydrophilic Conversion of Ag@TiO2 Composite Nanofiber Surfaces. Langmuir, 2008, 24, 8021-8026.	3.5	87
27	Interface effects for metal oxide thin films deposited on another metal oxide II. SnO2 deposited on SiO2. Surface Science, 1996, 366, 545-555.	1.9	86
28	XPS study of the surface carbonation/hydroxylation state of metal oxides. Applied Surface Science, 1990, 45, 103-108.	6.1	83
29	Control of the stoichiometry in the deposition of cobalt oxides on SiO2. Surface and Interface Analysis, 1998, 26, 62-71.	1.8	82
30	Reactivity of lanthanum substituted cobaltites toward carbon particles. Journal of Catalysis, 2008, 257, 334-344.	6.2	81
31	Surface chemistry and germination improvement of Quinoa seeds subjected to plasma activation. Scientific Reports, 2017, 7, 5924.	3.3	81
32	Is the frequency of the internal mode of an adsorbed diatomic molecule a reliable guide to its local adsorption site?. Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 75-83.	1.7	80
33	Structural determination of a molecular adsorbate by photoelectron diffraction: Ammonia on Ni{111}. Physical Review B, 1992, 46, 4836-4843.	3.2	74
34	Reforming of ethanol in a microwave surface-wave plasma discharge. Applied Physics Letters, 2004, 85, 4004-4006.	3.3	74
35	Photoefficiency and Optical, Microstructural, and Structural Properties of TiO2Thin Films Used as Photoanodes. Langmuir, 2004, 20, 1688-1697.	3.5	73
36	Interpretation of the Binding Energy and Auger Parameter Shifts Found by XPS for TiO2Supported on Different Surfaces. The Journal of Physical Chemistry, 1996, 100, 16255-16262.	2.9	72

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37	Effect of Visible and UV Illumination on the Water Contact Angle of TiO2Thin Films with Incorporated Nitrogen. Journal of Physical Chemistry C, 2007, 111, 1801-1808.	3.1	71
38	Growth regimes of porous gold thin films deposited by magnetron sputtering at oblique incidence: from compact to columnar microstructures. Nanotechnology, 2013, 24, 045604.	2.6	71
39	Oxidation and diffusion processes in nickel-titanium oxide systems. Surface Science, 1993, 295, 402-410.	1.9	70
40	Aligned TiO2 nanocolumnar layers prepared by PVD-GLAD for transparent dye sensitized solar cells. Energy and Environmental Science, 2011, 4, 3426.	30.8	70
41	Chemical changes induced by sputtering in TiO2 and some selected titanates as observed by X-ray absorption spectroscopy. Surface Science, 1993, 290, 427-435.	1.9	68
42	SiO2/TiO2 thin films with variable refractive index prepared by ion beam induced and plasma enhanced chemical vapor deposition. Thin Solid Films, 2006, 500, 19-26.	1.8	67
43	Preparation of transparent and conductive Al-doped ZnO thin films by ECR plasma enhanced CVD. Surface and Coatings Technology, 2002, 151-152, 289-293.	4.8	66
44	Influence of the chemical and electronic structure on the electrical behavior of zirconium oxynitride films. Journal of Applied Physics, 2008, 103, .	2.5	66
45	Electronic state characterization of SiOx thin films prepared by evaporation. Journal of Applied Physics, 2005, 97, 113714.	2.5	65
46	TiO2â€“SiO2 one-dimensional photonic crystals of controlled porosity by glancing angle physical vapour deposition. Journal of Materials Chemistry, 2010, 20, 6408.	6.7	64
47	Differences in n-type doping efficiency between Al- and Ga-ZnO films. Journal of Applied Physics, 2013, 113, .	2.5	64
48	Chemical State of Nitrogen and Visible Surface and Schottky Barrier Driven Photoactivities of N-Doped TiO₂ Thin Films. Journal of Physical Chemistry C, 2009, 113, 13341-13351.	3.1	63
49	Evaluation of Different Dielectric Barrier Discharge Plasma Configurations As an Alternative Technology for Green C₁ Chemistry in the Carbon Dioxide Reforming of Methane and the Direct Decomposition of Methanol. Journal of Physical Chemistry A, 2010, 114, 4009-4016.	2.5	62
50	Correlation lengths, porosity and water adsorption in TiO2thin films prepared by glancing angle deposition. Nanotechnology, 2012, 23, 205701.	2.6	61
51	The electronic structure of mesoscopic NiO particles. Chemical Physics Letters, 1993, 208, 460-464.	2.6	60
52	Electronic structure of stoichiometric andAr+-bombardedZrO2determined by resonant photoemission. Physical Review B, 1995, 52, 11711-11720.	3.2	60
53	Non-enzymatic hydrogen peroxide detection at NiO nanoporous thin film- electrodes prepared by physical vapor deposition at oblique angles. Electrochimica Acta, 2017, 235, 534-542.	5.2	60
54	Use of carbon monoxide and third-derivative EPR spectra to probe the coordination of surface vanadium(4+) ions on reduced vanadium pentoxide (V2O5)/silicon dioxide catalysts. The Journal of Physical Chemistry, 1986, 90, 618-621.	2.9	59

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55	In Situ EXAFS Study of the Photocatalytic Reduction and Deposition of Gold on Colloidal Titania. The Journal of Physical Chemistry, 1995, 99, 3303-3309.	2.9	59
56	Measuring the electron temperature by optical emission spectroscopy in two temperature plasmas at atmospheric pressure: A critical approach. Journal of Applied Physics, 2006, 99, 033104.	2.5	59
57	Perovskite Solar Cells Based on Nanocolumnar Plasmaâ€Deposited ZnO Thin Films. ChemPhysChem, 2014, 15, 1148-1153.	2.1	59
58	About the enhancement of chemical yield during the atmospheric plasma synthesis of ammonia in a ferroelectric packed bed reactor. Plasma Processes and Polymers, 2017, 14, 1600081.	3.0	58
59	Characterisation of iron/titanium oxide photocatalysts. Part 2.â€"Surface studies. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 2257-2264.	1.7	56
60	Ion beam induced chemical vapor deposition procedure for the preparation of oxide thin films. II. Preparation and characterization of AlxTiyOz thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 2842-2848.	2.1	56
61	Structure, microstructure and electronic characterisation of the Al2O3/SiO2 interface by electron spectroscopies. Surface Science, 2000, 457, 199-210.	1.9	56
62	Type of Plasmas and Microstructures of TiO[sub 2] Thin Films Prepared by Plasma Enhanced Chemical Vapor Deposition. Journal of the Electrochemical Society, 2007, 154, P152.	2.9	56
63	Nanoindentation of TiO‹sub›2‹/sub›thin films with different microstructures. Journal Physics D: Applied Physics, 2009, 42, 145305.	2.8	56
64	A transparent TMPyP/TiO2 composite thin film as an HCl sensitive optochemical gas sensor. Sensors and Actuators B: Chemical, 2010, 150, 764-769.	7.8	56
65	Quantification of the H content in diamondlike carbon and polymeric thin films by reflection electron energy loss spectroscopy. Applied Physics Letters, 2005, 87, 084101.	3.3	55
66	Growth of Crystalline TiO2 by Plasma Enhanced Chemical Vapor Deposition. Crystal Growth and Design, 2009, 9, 2868-2876.	3.0	54
67	Nanostructured Ti thin films by magnetron sputtering at oblique angles. Journal Physics D: Applied Physics, 2016, 49, 045303.	2.8	54
68	Synthesis of SiO2 and SiOxCyHz thin films by microwave plasma CVD. Thin Solid Films, 2001, 401, 150-158.	1.8	53
69	Chemical stability of Sin+ species in SiOx (x‹2) thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 136-144.	2.1	53
70	Plasma catalysis with perovskite-type catalysts for the removal of NO and CH4 from combustion exhausts. Journal of Catalysis, 2007, 247, 288-297.	6.2	51
71	Wetting angles and photocatalytic activities of illuminated TiO2 thin films. Catalysis Today, 2009, 143, 347-354.	4.4	51
72	Low Temperature Production of Formaldehyde from Carbon Dioxide and Ethane by Plasma-Assisted Catalysis in a Ferroelectrically Moderated Dielectric Barrier Discharge Reactor. ACS Catalysis, 2014, 4, 402-408.	11.2	51

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73	Diffraction and XPS Studies of Misfit Layer Chalcogenides Intercalated with Cobaltocene. Chemistry of Materials, 1995, 7, 1576-1582.	6.7	50
74	Sonogashira Cross-Coupling and Homocoupling on a Silver Surface: Chlorobenzene and Phenylacetylene on Ag(100). Journal of the American Chemical Society, 2015, 137, 940-947.	13.7	50
75	Laser Treatment of Ag@ZnO Nanorods as Long-Life-Span SERS Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 2331-2339.	8.0	50
76	Recent Advances in Alkaline Exchange Membrane Water Electrolysis and Electrode Manufacturing. Molecules, 2021, 26, 6326.	3.8	50
77	Bonding-state characterization of constituent elements in phyllosilicate minerals by XPS and NMR. The Journal of Physical Chemistry, 1988, 92, 3471-3476.	2.9	49
78	An XPS study of the Ar+-induced reduction of Ni2+ in NiO and Ni-Si oxide systems. Applied Surface Science, 1991, 51, 19-26.	6.1	49
79	Interface effects for metal oxide thin films deposited on another metal oxide I. SnO deposited on SiO2. Surface Science, 1996, 350, 123-135.	1.9	49
80	Determination of texture by infrared spectroscopy in titanium oxideâ€“anatase thin films. Journal of Applied Physics, 2003, 93, 4634-4645.	2.5	49
81	Electrochromic Behavior of W_xSi_yO_z Thin Films Prepared by Reactive Magnetron Sputtering at Normal and Glancing Angles. ACS Applied Materials & Interfaces, 2012, 4, 628-638.	8.0	49
82	Oxygen Optical Sensing in Gas and Liquids with Nanostructured ZnO Thin Films Based on Exciton Emission Detection. Journal of Physical Chemistry C, 2014, 118, 9852-9859.	3.1	48
83	Chemistry and Electrocatalytic Activity of Nanostructured Nickel Electrodes for Water Electrolysis. ACS Catalysis, 2020, 10, 6159-6170.	11.2	48
84	Effect of visible light on the water contact angles on illuminated oxide semiconductors other than TiO2. Solar Energy Materials and Solar Cells, 2006, 90, 2944-2949.	6.2	47
85	Active and Optically Transparent Tetracationic Porphyrin/TiO2 Composite Thin Films. ACS Applied Materials & Interfaces, 2010, 2, 712-721.	8.0	47
86	Growth of silver on ZnO and SnO2 thin films intended for low emissivity applications. Applied Surface Science, 2013, 268, 507-515.	6.1	47
87	An XPS study of the mixing effects induced by ion bombardment in composite oxides. Applied Surface Science, 1993, 68, 453-459.	6.1	46
88	Oxidation State and Size Effects in CoO Nanoparticles. Journal of Physical Chemistry B, 1999, 103, 6676-6679.	2.6	46
89	Biocompatible surfaces by immobilization of heparin on diamond-like carbon films deposited on various substrates. Surface and Interface Analysis, 2000, 29, 386-391.	1.8	46
90	Mechanism of Copper Passivation in Aqueous Sodium Carbonateâ^'Bicarbonate Solution Derived from Combined X-ray Photoelectron Spectroscopic and Electrochemical Data. Journal of Physical Chemistry B, 1998, 102, 5483-5489.	2.6	45

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91	Theoretical and experimental characterization of TiO₂ thin films deposited at oblique angles. Journal Physics D: Applied Physics, 2011, 44, 385302.	2.8	45
92	Nickelâ€“copper bilayer nanoporous electrode prepared by physical vapor deposition at oblique angles for the non-enzymatic determination of glucose. Sensors and Actuators B: Chemical, 2016, 226, 436-443.	7.8	45
93	Application of Prussian Blue electrodes for amperometric detection of free chlorine in water samples using Flow Injection Analysis. Talanta, 2016, 146, 410-416.	5.5	45
94	Spectroscopic characterisation and photochemical behaviour of a titanium hydroxyperoxo compound. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 1279.	1.0	44
95	Titania-supported bimetallic catalyst synthesis by photocatalytic codeposition at ambient temperature: Preparation and characterization of Pt$z.sbnd;Rh, Ag$z.sbnd;Rh, and Pt$z.sbnd;Pd couples. Journal of Catalysis, 1991, 132, 490-497.	6.2	44
96	X-ray Photoelectron Spectroscopy and Infrared Study of the Nature of Cu Species in Cu/ZrO2de-NOx Catalysts. Journal of Physical Chemistry B, 2002, 106, 10185-10190.	2.6	44
97	A novel and improved surfactant-modified Prussian Blue electrode for amperometric detection of free chlorine in water. Sensors and Actuators B: Chemical, 2015, 213, 116-123.	7.8	44
98	Passivation of nanocrystalline Al prepared by the gas phase condensation method: An x-ray photoelectron spectroscopy study. Journal of Materials Research, 1998, 13, 703-710.	2.6	43
99	Low temperature synthesis of dense SiO2 thin films by ion beam induced chemical vapor deposition. Thin Solid Films, 2001, 396, 9-15.	1.8	43
100	Influence of irrigation conditions in the germination of plasma treated Nasturtium seeds. Scientific Reports, 2018, 8, 16442.	3.3	43
101	Size and support effects in the photoelectron spectra of small TiO2 particles. Surface and Interface Analysis, 1992, 18, 392-396.	1.8	42
102	XPS and ISS study of NiTiO3and PbTiO3subjected to low-energy ion bombardment. I. Influence of the type of ion (Ar+and Oâ€‰2+). Surface and Interface Analysis, 1993, 20, 941-948.	1.8	42
103	SnO2 thin films prepared by ion beam induced CVD: preparation and characterization by X-ray absorption spectroscopy. Thin Solid Films, 1999, 353, 113-123.	1.8	42
104	An in situ XAS study of Cu/ZrO catalysts under de-NO reaction conditions. Journal of Catalysis, 2005, 235, 295-301.	6.2	42
105	Influence of the Angular Distribution Function of Incident Particles on the Microstructure and Anomalous Scaling Behavior of Thin Films. Physical Review Letters, 2006, 96, 236101.	7.8	42
106	Porosity and microstructure of plasma deposited TiO2 thin films. Microporous and Mesoporous Materials, 2009, 118, 314-324.	4.4	42
107	Nanocolumnar growth of thin films deposited at oblique angles: Beyond the tangent rule. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	1.2	42
108	Ion beam induced chemical vapor deposition for the preparation of thin film oxides. Thin Solid Films, 1994, 241, 198-201.	1.8	41

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109	Valence and Localization of Praseodymium in Pr-Doped Zircon. Journal of Solid State Chemistry, 1998, 139, 412-415.	2.9	41
110	Non-conventional synthesis of Cr-doped SnO2 pigments. Ceramics International, 2003, 29, 385-392.	4.8	41
111	Superhydrophobic supported Ag-NPs@ZnO-nanorods with photoactivity in the visible range. Journal of Materials Chemistry, 2012, 22, 1341-1346.	6.7	41
112	Structure determination for coadsorbed molecular fragments using chemical shift photoelectron diffraction. Physical Review Letters, 1993, 71, 581-584.	7.8	40
113	Formation of Subsurface W⁵⁺ Species in Gasochromic Pt/WO₃ Thin Films Exposed to Hydrogen. Journal of Physical Chemistry C, 2017, 121, 15719-15727.	3.1	40
114	Optical Gas Sensing of Ammonia and Amines Based on Protonated Porphyrin/TiO2 Composite Thin Films. Sensors, 2017, 17, 24.	3.8	40
115	CuxCo3-xO4 ultra-thin film as efficient anodic catalysts for anion exchange membrane water electrolysers. Journal of Power Sources, 2019, 415, 136-144.	7.8	40
116	Interface effects for metal oxide thin films deposited on another metal oxide III. SnO and SnO2 deposited on MgO (100) and the use of chemical state plots. Surface Science, 1996, 366, 556-563.	1.9	39
117	Characterization and application of a new pH sensor based on magnetron sputtered porous WO3 thin films deposited at oblique angles. Electrochimica Acta, 2016, 193, 24-31.	5.2	39
118	Structural characterization of partially amorphous SnO2 nanoparticles by factor analysis of XAS and FT-IR spectra. Solid State Ionics, 1999, 116, 117-127.	2.7	38
119	On the Deposition Rates of Magnetron Sputtered Thin Films at Oblique Angles. Plasma Processes and Polymers, 2014, 11, 571-576.	3.0	38
120	Cholesterol biosensing with a polydopamine-modified nanostructured platinum electrode prepared by oblique angle physical vacuum deposition. Sensors and Actuators B: Chemical, 2017, 240, 37-45.	7.8	38
121	Hydrogen-induced titanium oxide migration onto metallic rhodium in real rhodium/titania catalysts. The Journal of Physical Chemistry, 1987, 91, 6625-6628.	2.9	37
122	XPS characterization of coal surfaces: Study of aerial oxidation of brown coals. Surface and Interface Analysis, 1988, 12, 565-571.	1.8	37
123	The effects of the NaF flux on the oxidation state and localisation of praseodymium in Pr-doped zircon pigments. Journal of the European Ceramic Society, 1999, 19, 641-648.	5.7	37
124	Determination of the hydrogen content in diamond-like carbon and polymeric thin films by reflection electron energy loss spectroscopy. Diamond and Related Materials, 2007, 16, 107-111.	3.9	37
125	Preillumination of TiO2 and Ta2O5 Photoactive Thin Films As a Tool to Tailor the Synthesis of Composite Materials. Langmuir, 2008, 24, 9460-9469.	3.5	37
126	Optically Active Luminescent Perylene Thin Films Deposited by Plasma Polymerization. Journal of Physical Chemistry C, 2009, 113, 431-438.	3.1	37

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127	Wetting Properties of Polycrystalline TiO₂ Surfaces: A Scaling Approach to the Roughness Factors. Langmuir, 2010, 26, 15875-15882.	3.5	37
128	Selective Dichroic Patterning by Nanosecond Laser Treatment of Ag Nanostripes. Advanced Materials, 2011, 23, 848-853.	21.0	37
129	Robust anti-icing superhydrophobic aluminum alloy surfaces by grafting fluorocarbon molecular chains. Applied Materials Today, 2020, 21, 100815.	4.3	37
130	Unraveling Discharge and Surface Mechanisms in Plasma-Assisted Ammonia Reactions. ACS Sustainable Chemistry and Engineering, 2020, 8, 14855-14866.	6.7	37
131	XPS intensities and binding energy shifts as metal dispersion parameters in Ni/SiO2 catalysts. Surface and Interface Analysis, 1990, 16, 375-379.	1.8	36
132	Hybrid catalytic-DBD plasma reactor for the production of hydrogen and preferential CO oxidation (CO-PROX) at reduced temperatures. Chemical Communications, 2009, , 6192.	4.1	36
133	Selective Detection of Volatile Organic Compounds by Spectral Imaging of Porphyrin Derivatives Bound to TiO₂ Porous Films. ACS Applied Materials & Interfaces, 2012, 4, 5147-5154.	8.0	36
134	Vertically Aligned Hybrid Core/Shell Semiconductor Nanowires for Photonics Applications. Advanced Functional Materials, 2013, 23, 5981-5989.	14.9	36
135	Oxygen interaction with CoSi(100) and CoSi2(100) surfaces. Surface Science, 1982, 117, 621-628.	1.9	35
136	Optical and crystallisation behaviour of TiO2 and V/TiO2 thin films prepared by plasma and ion beam assisted methods. Thin Solid Films, 2003, 429, 84-90.	1.8	35
137	Chemical state and distribution of Mn ions in Mn-doped Î±-Al 2 O 3 solid solutions prepared in the absence and the presence of fluxes. Journal of the European Ceramic Society, 2004, 24, 3057-3062.	5.7	35
138	Design and control of porosity in oxide thin films grown by PECVD. Journal of Materials Science, 2006, 41, 5220-5226.	3.7	35
139	Physicochemical surface analysis and germination at different irrigation conditions of DBD plasmaâ€treated wheat seeds. Plasma Processes and Polymers, 2021, 18, .	3.0	35
140	Ion beam induced chemical vapor deposition procedure for the preparation of oxide thin films. I. Preparation and characterization of TiO2 thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 2728-2732.	2.1	34
141	Synthesis of SnO and SnO2 nanocrystalline powders by the gas phase condensation method. Sensors and Actuators B: Chemical, 1996, 31, 29-32.	7.8	34
142	Ar stabilisation of the cubic/tetragonal phases of ZrO2 in thin films prepared by ion beam induced chemical vapour deposition. Thin Solid Films, 2001, 389, 34-42.	1.8	34
143	Relationship between scaling behavior and porosity of plasma-deposited<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>thin films. Physical Review B, 2007, 76, .	3.2	34
144	Band Gap Narrowing versus Formation of Electronic States in the Gap in Nâ¯TiO₂ Thin Films. Journal of Physical Chemistry C, 2010, 114, 22546-22557.	3.1	34

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145	Surface Functionalization, Oxygen Depth Profiles, and Wetting Behavior of PET Treated with Different Nitrogen Plasmas. ACS Applied Materials & Interfaces, 2010, 2, 980-990.	8.0	34
146	Liquids Analysis with Optofluidic Bragg Microcavities. ACS Applied Materials & Interfaces, 2013, 5, 6743-6750.	8.0	34
147	New Copper wide range nanosensor electrode prepared by physical vapor deposition at oblique angles for the non-enzimatic determination of glucose. Electrochimica Acta, 2015, 169, 195-201.	5.2	34
148	1-dimensional TiO2 nano-forests as photoanodes for efficient and stable perovskite solar cells fabrication. Nano Energy, 2017, 35, 215-222.	16.0	34
149	Adsorption and oxidation of K deposited on graphite. Surface Science, 1996, 364, 253-265.	1.9	33
150	Surface Defects and Homogeneous Distribution of Silver Particles on HOPG. Langmuir, 1998, 14, 7324-7326.	3.5	33
151	Transparent Nanometric Organic Luminescent Films as UVâ€Active Components in Photonic Structures. Advanced Materials, 2011, 23, 761-765.	21.0	33
152	Tuning Dichroic Plasmon Resonance Modes of Gold Nanoparticles in Optical Thin Films. Advanced Functional Materials, 2013, 23, 1655-1663.	14.9	33
153	Optical properties and electronic transitions of SnO2 thin films by reflection electron energy loss spectroscopy. Surface Science, 1998, 400, 116-126.	1.9	32
154	Crystal-Field Effects at the TiO2â"SiO2Interface As Observed by X-ray Absorption Spectroscopy. Langmuir, 2000, 16, 7066-7069.	3.5	32
155	Spectroscopic Studies on the Localization of Vanadium(IV) in Vanadiumâ€Doped Zircon Pigments. Journal of the American Ceramic Society, 1998, 81, 395-400.	3.8	32
156	Morphology and surface-plasmon resonance of silver nanoparticles sandwiched between Si3N4 and BN layers. Journal of Applied Physics, 2005, 98, 114316.	2.5	32
157	Morphological evolution of pulsed laser deposited ZrO2 thin films. Journal of Applied Physics, 2010, 107, .	2.5	32
158	Roughness assessment and wetting behavior of fluorocarbon surfaces. Journal of Colloid and Interface Science, 2012, 376, 274-282.	9.4	32
159	Plasma reforming of methane in a tunable ferroelectric packed-bed dielectric barrier discharge reactor. Journal of Power Sources, 2015, 296, 268-275.	7.8	32
160	Electrochromic response and porous structure of WO3 cathode layers. Electrochimica Acta, 2021, 376, 138049.	5.2	32
161	The state of nickel in Ni/SiO2 and Ni/TiO2-calcined catalysts. Journal of Catalysis, 1992, 136, 415-422.	6.2	31
162	Effect of texture and annealing treatments in SnO2 and Pd/SnO2 gas sensor materials. Sensors and Actuators B: Chemical, 1999, 61, 23-32.	7.8	31

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163	The Flexible Surface Revisited: Adsorbate-Induced Reconstruction, Homocoupling, and Sonogashira Cross-Coupling on the Au(100) Surface. Journal of Physical Chemistry C, 2014, 118, 11677-11684.	3.1	31
164	Porous, robust highly conducting Ni-YSZ thin film anodes prepared by magnetron sputtering at oblique angles for application as anodes and buffer layers in solid oxide fuel cells. International Journal of Hydrogen Energy, 2015, 40, 7382-7387.	7.1	31
165	Mechanism of hydrogen gas-sensing at low temperatures using Rh/TiO2 systems. Sensors and Actuators, 1989, 18, 337-348.	1.7	30
166	Low-temperature preparation and structural characterization of Pr-doped ceria solid solutions. Journal of Materials Research, 2002, 17, 797-804.	2.6	30
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