Enric Bertran

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7034410/publications.pdf

Version: 2024-02-01

228	4,267	136950	189892
papers	citations	32	50
		h-index	g-index

232	232	232	4115
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimization of MnO2/vertically aligned carbon nanotube composite for supercapacitor application. Journal of Power Sources, 2011, 196, 5779-5783.	7.8	137
2	Wettability, ageing and recovery process of plasma-treated polyamide 6. Journal of Adhesion Science and Technology, 2004, 18, 1077-1089.	2.6	107
3	Mueller matrix microscope with a dual continuous rotating compensator setup and digital demodulation. Applied Optics, 2014, 53, 2236.	1.8	104
4	Particle agglomeration study in rf silane plasmas:Insitustudy by polarizationâ€sensitive laser light scattering. Journal of Applied Physics, 1996, 80, 2069-2078.	2.5	92
5	Nanoparticle formation in low-pressure silane plasmas: bridging the gap between a-Si:H and Î¼c-Si films. Journal of Non-Crystalline Solids, 1998, 227-230, 871-875.	3.1	84
6	Nitrogen plasma functionalization of carbon nanotubes for supercapacitor applications. Journal of Materials Science, 2013, 48, 7620-7628.	3.7	79
7	Atomic structure of the nanocrystalline Si particles appearing in nanostructured Si thin films produced in low-temperature radiofrequency plasmas. Journal of Applied Physics, 2002, 92, 4684-4694.	2.5	74
8	Surface characterization of keratin fibres treated by water vapour plasma. Surface and Interface Analysis, 2003, 35, 128-135.	1.8	74
9	Structural effects of nanocomposite films of amorphous carbon and metal deposited by pulsed-DC reactive magnetron sputtering. Diamond and Related Materials, 2007, 16, 1828-1834.	3.9	72
10	Size dependence of energy gaps in small carbon clusters: the origin of broadband luminescence. Diamond and Related Materials, 1998, 7, 1663-1668.	3.9	69
11	RF sputtering deposition of Ag/ITO coatings at room temperature. Solid State Ionics, 2003, 165, 139-148.	2.7	69
12	Insituspectroellipsometric study of the nucleation and growth of amorphous silicon. Journal of Applied Physics, 1990, 68, 2752-2759.	2.5	68
13	Preparation of metal (W, Mo, Nb, Ti) containing a-C:H films by reactive magnetron sputtering. Surface and Coatings Technology, 2004, 177-178, 409-414.	4.8	67
14	Efficient diffusion barrier layers for the catalytic growth of carbon nanotubes on copper substrates. Carbon, 2009, 47, 613-621.	10.3	67
15	Nucleation of diamond on silicon, SiAlON, and graphite substrates coated with an aâ€C:H layer. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 3012-3018.	2.1	65
16	Electrochromic behaviour of nickel oxide thin films deposited by thermal evaporation. Thin Solid Films, 2001, 398-399, 41-44.	1.8	63
17	Structure of diamond-like carbon films containing transition metals deposited by reactive magnetron sputtering. Diamond and Related Materials, 2005, 14, 1103-1107.	3.9	63
18	Influence of the porosity of RF sputtered Ta2O5 thin films on their optical properties for electrochromic applications. Solid State Ionics, 2003, 165, 15-22.	2.7	61

#	Article	IF	Citations
19	Effect of temperature on graphene grown by chemical vapor deposition. Journal of Materials Science, 2017, 52, 8348-8356.	3.7	55
20	Shrink-resistance and wetting properties of keratin fibres treated by glow discharge. Journal of Adhesion Science and Technology, 2002, 16, 1469-1485.	2.6	54
21	Influence of pressure and radio frequency power on deposition rate and structural properties of hydrogenated amorphous silicon thin films prepared by plasma deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 2216-2221.	2.1	52
22	Characterization of DLC films obtained at room temperature by pulsed-dc PECVD. Diamond and Related Materials, 2004, 13, 1494-1499.	3.9	50
23	Growth of hydrogenated amorphous carbon films in pulsed d.c. methane discharges. Diamond and Related Materials, 2003, 12, 98-104.	3.9	49
24	Blackbody emission under laser excitation of silicon nanopowder produced by plasma-enhanced chemical-vapor deposition. Journal of Applied Physics, 1998, 83, 7879-7885.	2.5	45
25	Functionalization of carbon nanotubes by water plasma. Nanotechnology, 2012, 23, 385604.	2.6	45
26	Role of structural saturation and geometry in the luminescence of silicon-based nanostructured materials. Physical Review B, 1996, 53, 7847-7850.	3.2	40
27	Ellipsometric study ofaâ€Si:H thin films deposited by square wave modulated rf glow discharge. Journal of Applied Physics, 1991, 69, 632-638.	2.5	39
28	Optical properties of co-evaporated CuInSe2thin films. Journal Physics D: Applied Physics, 1986, 19, 127-136.	2.8	37
29	Effects of gas pressure and r.f. power on the growth and properties of magnetron sputter deposited amorphous carbon thin films. Diamond and Related Materials, 2002, 11, 1005-1009.	3.9	37
30	Si3N4 single-crystal nanowires grown from silicon micro- and nanoparticles near the threshold of passive oxidation. Applied Physics Letters, 2005, 87, 192114.	3.3	36
31	Real time controlled rf reactor for deposition of a-Si:H thin films. Vacuum, 1989, 39, 795-798.	3.5	34
32	Effects of plasma processing on the microstructural properties of silicon powders. Plasma Sources Science and Technology, 1994, 3, 348-354.	3.1	33
33	Optical properties of indium doped CdS thin films. Solar Energy Materials and Solar Cells, 1988, 17, 55-64.	0.4	32
34	Electrochromic coatings for smart windows. Surface Science, 2003, 532-535, 1127-1131.	1.9	32
35	Efficiency of Li doping on electrochromic WO3 thin films. Thin Solid Films, 2000, 377-378, 129-133.	1.8	31
36	In situ optical characterizations for rf plasma deposited a-Si: H thin films. Vacuum, 1989, 39, 785-787.	3.5	30

#	Article	IF	Citations
37	Effect of the Nanoparticles on the Structure and Crystallization of Amorphous Silicon Thin Films Produced by rf Glow Discharge. Journal of Materials Research, 1998, 13, 2476-2479.	2.6	30
38	Ellipsometric study of diamond-like thin films. Surface and Coatings Technology, 1991, 47, 263-268.	4.8	28
39	Plasma-enhanced chemical vapor deposition of boron nitride thin films from B2H6â€“H2â€“NH3 and B2H6â€“N2 gas mixtures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 578-586.	2.1	28
40	Optical properties of Li+ doped electrochromic WO3 thin films. Thin Solid Films, 2000, 377-378, 8-13.	1.8	28
41	Spontaneous formation of nanometric multilayers of metal-carbon films by up-hill diffusion during growth. Applied Physics Letters, 2005, 87, 213117.	3.3	28
42	Diamond like carbon films deposited from graphite target by asymmetric bipolar pulsed-DC magnetron sputtering. Diamond and Related Materials, 2007, 16, 1286-1290.	3.9	28
43	Effects of environmental conditions on fluorinated diamond-like carbon tribology. Diamond and Related Materials, 2009, 18, 923-926.	3.9	28
44	Unusual photoluminescence properties in amorphous silicon nanopowder produced by plasma enhanced chemical vapor deposition. Applied Physics Letters, 1994, 64, 463-465.	3.3	27
45	Composition and morphology of metal-containing diamond-like carbon films obtained by reactive magnetron sputtering. Thin Solid Films, 2005, 482, 293-298.	1.8	27
46	Carbon nanotubes grown by asymmetric bipolar pulsed-DC PECVD. Diamond and Related Materials, 2007, 16, 1131-1135.	3.9	26
47	Optical and electrical characterisation of Ta2O5 thin films for ionic conduction applications. Thin Solid Films, 1999, 343-344, 449-452.	1.8	25
48	Plasma parameters of pulsed-dc discharges in methane used to deposit diamondlike carbon films. Journal of Applied Physics, 2009, 106, 033302.	2.5	25
49	Magnetic behaviour of non-contacting Ni nanoparticles encapsulated in vertically aligned carbon nanotubes. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2679-2682.	0.8	25
50	Vertically aligned carbon nanotubes coated with manganese dioxide as cathode material for microbial fuel cells. Journal of Materials Science, 2015, 50, 1214-1220.	3.7	25
51	Time-resolved electrical measurements of a pulsed-dc methane discharge used in diamond-like carbon films production. Thin Solid Films, 2005, 482, 172-176.	1.8	24
52	In Situ Polymerization of Aqueous Solutions of NIPAAm Initiated by Atmospheric Plasma Treatment. Plasma Processes and Polymers, 2013, 10, 506-516.	3.0	24
53	Effect of a Balanced Concentration of Hydrogen on Graphene CVD Growth. Journal of Nanomaterials, 2016, 2016, 1-10.	2.7	24
54	Deposition of Zn3P2 thin films by coevaporation. Solar Energy Materials and Solar Cells, 1985, 12, 51-56.	0.4	23

#	Article	IF	Citations
55	Crystalline properties of co-evaporated CuInSe2 thin films. Thin Solid Films, 1985, 130, 155-164.	1.8	22
56	Fluorinated DLC deposited by pulsed-DC plasma for antisticking surface applications. Diamond and Related Materials, 2008, 17, 1728-1732.	3.9	22
57	Modifying surface properties of diamond-like carbon films via nanotexturing. Journal Physics D: Applied Physics, 2011, 44, 395301.	2.8	22
58	Evaluation of Graphene/WO3 and Graphene/CeO x Structures as Electrodes for Supercapacitor Applications. Nanoscale Research Letters, 2017, 12, 635.	5.7	22
59	Electrical properties of polycrystalline In-doped CdS thin films. Journal Physics D: Applied Physics, 1984, 17, 1679-1685.	2.8	21
60	Black-body emission from nanostructured materials. Journal of Luminescence, 1998, 80, 519-522.	3.1	21
61	Comparative study of metal/amorphous-carbon multilayer structures produced by magnetron sputtering. Diamond and Related Materials, 2003, 12, 1008-1012.	3.9	21
62	Calorimetry of dehydrogenation and dangling-bond recombination in several hydrogenated amorphous silicon materials. Physical Review B, 2006, 73, .	3.2	21
63	Vertically aligned carbon nanotube based electrodes: Fabrication, characterisation and prospects. Electrochemistry Communications, 2008, 10, 1242-1245.	4.7	21
64	Super-Capacitive Performance of Manganese Dioxide/Graphene Nano-Walls Electrodes Deposited on Stainless Steel Current Collectors. Materials, 2019, 12, 483.	2.9	21
65	Optical absorption from graphitic clusters of hydrogenated amorphous carbon thin films. Journal of Applied Physics, 1991, 70, 5119-5121.	2.5	20
66	Effects of low temperature plasma on wool and wool/nylon blend dyed fabrics. Fibers and Polymers, 2008, 9, 293-300.	2.1	19
67	RF-PECVD growth and nitrogen plasma functionalization of CNTs on copper foil for electrochemical applications. Diamond and Related Materials, 2014, 49, 55-61.	3.9	19
68	Insights into the inherent properties of vertical graphene flakes towards hydrogen evolution reaction. Applied Surface Science, 2022, 592, 153327.	6.1	19
69	Surface reflectivity of TiN thin films measured by spectral ellipsometry. Surface Science, 1991, 251-252, 200-203.	1.9	18
70	Free Radical Formation in Wool Fibers Treated by Low Temperature Plasma. Textile Reseach Journal, 2003, 73, 955-959.	2.2	18
71	Polysiloxane Softener Coatings on Plasma-Treated Wool: Study of the Surface Interactions. Macromolecular Materials and Engineering, 2007, 292, 817-824.	3.6	18
72	Structure and physical properties of colloidal crystals made of silica particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 401, 38-47.	4.7	18

#	Article	IF	Citations
73	Effect of pressure and hydrogen flow in nucleation density and morphology of graphene bidimensional crystals. Materials Research Express, 2016, 3, 075603.	1.6	18
74	Production of nanometric particles in radio frequency glow discharges in mixtures of silane and methane. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 567-571.	2.1	17
75	Polymorphous Si thin films from radio frequency plasmas of SiH4 diluted in Ar: A study by transmission electron microscopy and Raman spectroscopy. Journal of Applied Physics, 2001, 90, 4272-4280.	2.5	17
76	Enhancement of oxidation rate of a-Si nanoparticles during dehydrogenation. Applied Physics Letters, 2001, 79, 3705-3707.	3.3	17
77	Study on the influence of scouring on the wettability of keratin fibers before plasma treatment. Fibers and Polymers, 2008, 9, 444-449.	2.1	17
78	Thermal-Induced Structural Evolution of Carbon-Encapsulated Iron Nanoparticles Generated by Two Different Methods. Journal of Physical Chemistry C, 2013, 117, 19167-19174.	3.1	17
79	Deposition of Nanostructured Silicon Thin Films by Means of the Selective Contribution of Particles in Pecvd. Materials Research Society Symposia Proceedings, 1998, 507, 499.	0.1	16
80	Mechanical properties of nanometric structures of Si/SiC, C/SiC and C/SiN produced by PECVD. Diamond and Related Materials, 2001, 10, 1115-1120.	3.9	16
81	Hard coatings for mechanical applications. Vacuum, 2002, 64, 181-190.	3.5	16
82	Characterization of diamond-like carbon thin films produced by pulsed-DC low pressure plasma monitored by a Langmuir probe in time-resolved mode. Diamond and Related Materials, 2005, 14, 1062-1066.	3.9	16
83	Study of CNTs structural evolution during water assisted growth and transfer methodology for electrochemical applications. Materials Chemistry and Physics, 2014, 148, 914-922.	4.0	16
84	Hydrophilicâ€“oleophobic coatings on cellulosic materials by plasma assisted polymerization in liquid phase and fluorosurfactant complexation. Cellulose, 2014, 21, 729-739.	4.9	16
85	Growth and Plasma Functionalization of Carbon Nanotubes. Journal of Cluster Science, 2015, 26, 315-336.	3.3	16
86	Laser-induced nanostructuration of vertically aligned carbon nanotubes coated with nickel oxide nanoparticles. Journal of Materials Science, 2017, 52, 4002-4015.	3.7	16
87	Homogeneous Fe₂O₃ coatings on carbon nanotube structures for supercapacitors. Dalton Transactions, 2020, 49, 4136-4145.	3.3	16
88	Properties of amorphous silicon thin films grown in square wave modulated silane rf discharges. Journal of Applied Physics, 1992, 71, 1546-1548.	2.5	15
89	Photoluminescence in silicon powder grown by plasma-enhanced chemical-vapor deposition: Evidence of a multistep-multiphoton excitation process. Physical Review B, 1994, 50, 18124-18133.	3.2	15
90	Structural modeling of the possible growth of oriented textured singleâ€crystal diamond film on a silicon (111) surface. Applied Physics Letters, 1996, 69, 1086-1088.	3.3	15

#	Article	IF	Citations
91	Spectroscopic ellipsometric characterization of transparent thin film amorphous electronic materials: integrated analysis. Thin Solid Films, 1998, 313-314, 379-383.	1.8	15
92	Deep profiles of lithium in electrolytic structures of ITO/WO3 for electrochromic applications. Thin Solid Films, 1999, 343-344, 179-182.	1.8	15
93	Calorimetry of hydrogen desorption froma-Si nanoparticles. Physical Review B, 2002, 65, .	3.2	15
94	The crystallization temperature of silicon nanoparticles. Nanotechnology, 2007, 18, 175705.	2.6	15
95	Water Plasma Functionalized CNTs/MnO₂Composites for Supercapacitors. Scientific World Journal, The, 2013, 2013, 1-8.	2.1	15
96	Control of the Strain in Chemical Vapor Deposition-Grown Graphene over Copper via H₂ Flow. Journal of Physical Chemistry C, 2016, 120, 25572-25577.	3.1	15
97	Size Control of Carbon Encapsulated Iron Nanoparticles by Arc Discharge Plasma Method. Applied Sciences (Switzerland), 2017, 7, 26.	2.5	15
98	Preparation of nanoscale amorphous silicon based powder in a square-wave-modulated rf plasma reactor. Vacuum, 1994, 45, 1115-1117.	3.5	14
99	Microstructure of highly oriented, hexagonal, boron nitride thin films grown on crystalline silicon by radio frequency plasmaâ€assisted chemical vapor deposition. Journal of Applied Physics, 1996, 80, 6553-6555.	2.5	14
100	Nanometric powder of stoichiometric silicon carbide produced in square-wave modulated RF glow discharges. Vacuum, 1999, 52, 183-186.	3.5	14
101	Optimal deposition conditions of TiN barrier layers for the growth of vertically aligned carbon nanotubes onto metallic substrates. Journal Physics D: Applied Physics, 2009, 42, 104002.	2.8	14
102	Arc-Discharge Synthesis of Iron Encapsulated in Carbon Nanoparticles for Biomedical Applications. Journal of Nanomaterials, 2014, 2014, 1-8.	2.7	14
103	Optical security verification by synthesizing thin films with unique polarimetric signatures. Optics Letters, 2015, 40, 5399.	3.3	14
104	MAPLE synthesis of reduced graphene oxide/silver nanocomposite electrodes: Influence of target composition and gas ambience. Journal of Alloys and Compounds, 2017, 726, 1003-1013.	5.5	14
105	Growth and functionalization of carbon nanotubes on quartz filter for environmental applications. Journal of Environmental Engineering & Ecological Science, 2014, 3, 2.	0.7	14
106	Effect of substrate temperature on deposition rate of rf plasmaâ€deposited hydrogenated amorphous silicon thin films. Journal of Applied Physics, 1991, 69, 3757-3759.	2.5	13
107	Optical and structural characterization of hydrogenated amorphous silicon carbide thin films prepared by r.f. plasma chemical vapour deposition. Diamond and Related Materials, 1995, 4, 1205-1209.	3.9	13
108	Infrared and UV-visible ellipsometric study of WO3 electrochromic thin films. Thin Solid Films, 1998, 313-314, 682-686.	1.8	13

#	Article	IF	Citations
109	Accurate electrical measurements for in situ diagnosis of RF discharges in plasma CVD processes. Vacuum, 1999, 53, 1-5.	3.5	13
110	Surface analysis of nanostructured ceramic coatings containing silicon carbide nanoparticles produced by plasma modulation chemical vapour deposition. Thin Solid Films, 2000, 377-378, 495-500.	1.8	13
111	Influence of the dipolar interactions in the magnetization reversal asymmetry of hardâ€“soft magnetic ribbons. Journal of Applied Physics, 2005, 97, 023903.	2.5	13
112	Kinetic study of the oxide-assisted catalyst-free synthesis of silicon nitride nanowires. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1307-1312.	1.8	13
113	Structural and optical properties of diamond like thin films deposited by asymmetric bipolar pulsed-DC reactive magnetron sputtering. Surface and Coatings Technology, 2008, 202, 2354-2357.	4.8	13
114	Growth and functionalization of CNTs on stainless steel electrodes for supercapacitor applications. Materials Research Express, 2014, 1, 035050.	1.6	13
115	Nanostructured Silicon thin films Deposited by PECVD in the Presence of Silicon Nanoparticles. Materials Research Society Symposia Proceedings, 1997, 467, 313.	0.1	12
116	Nanopowder of silicon nitride produced in radio frequency modulated glow discharges from SiH4 and NH3. Surface and Coatings Technology, 1998, 100-101, 55-58.	4.8	12
117	Siî—¸Cî—¸N nanometric powder produced in square-wave modulated RF glow discharges. Diamond and Related Materials, 1998, 7, 407-411.	3.9	12
118	Nanoparticles of Siâ€“Câ€“N from low temperature RF plasmas: selective size, composition and structure. Applied Surface Science, 1999, 144-145, 702-707.	6.1	12
119	Influence of incident ion beam angle on dry etching of silica sub-micron particles deposited on Si substrates. Thin Solid Films, 2009, 518, 1543-1548.	1.8	12
120	Magnetic response of CVD and PECVD iron filled multi-walled carbon nanotubes. Diamond and Related Materials, 2009, 18, 953-956.	3.9	12
121	Error minimization method for spectroscopic and phase-modulated ellipsometric measurements on highly transparent thin films. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1993, 10, 713.	1.5	11
122	Optical and structural characterization of boron nitride thin films. Diamond and Related Materials, 1995, 4, 657-660.	3.9	11
123	Optical emission spectroscopy of rf glow discharges of methaneâ€“silane mixtures. Thin Solid Films, 1998, 317, 120-123.	1.8	11
124	Influence of the film structure on the properties of electrochromic CeO2 thin films deposited by e-beam PVD. Thin Solid Films, 2004, 447-448, 119-124.	1.8	11
125	Low friction and protective diamond-like carbon coatings deposited by asymmetric bipolar pulsed plasma. Diamond and Related Materials, 2009, 18, 1035-1038.	3.9	11
126	Ion energy distributions in bipolar pulsed-dc discharges of methane measured at the biased cathode. Plasma Sources Science and Technology, 2011, 20, 015006.	3.1	11

#	Article	IF	Citations
127	Title is missing!. Journal Physics D: Applied Physics, 1987, 20, 958-962.	2.8	10
128	Plasma-deposited silicon nitride films with low hydrogen content for amorphous silicon thin-film transistors application. Sensors and Actuators A: Physical, 1993, 37-38, 333-336.	4.1	10
129	Spectral ellipsometric and compositional characterization of hydrogenated amorphous silicon carbide thin films. Diamond and Related Materials, 1995, 4, 702-705.	3.9	10
130	Spectroscopic ellipsometric study of boron nitride thin films. Diamond and Related Materials, 1996, 5, 539-543.	3.9	10
131	Molecular mechanics simulation of the diamond nucleation and growth on silicon (001) and (111) surfaces. Thin Solid Films, 1998, 317, 6-9.	1.8	10
132	Structural Characterization and Crystallization Process of Nanostructured Silicon Thin Films Produced in Low-Pressure Silane Plasma. Materials Research Society Symposia Proceedings, 1998, 507, 933.	0.1	10
133	Optimized calibration method for Fourier transform infrared phase-modulated ellipsometry. Thin Solid Films, 1999, 354, 187-194.	1.8	10
134	Growth kinetics of nanometric dendrites in metalâ€“carbon thin films. Acta Materialia, 2009, 57, 4948-4956.	7.9	10
135	Surface structuring of diamond-like carbon films by colloidal lithography with silica sub-micron particles. Diamond and Related Materials, 2010, 19, 1124-1130.	3.9	10
136	Boost of Charge Storage Performance of Graphene Nanowall Electrodes by Laser-Induced Crystallization of Metal Oxide Nanostructures. ACS Applied Materials & Interfaces, 2021, 13, 17957-17970.	8.0	10
137	Spectroscopic ellipsometry study of the In1â€xGaxAsyP1â€y/InP heterojunctions grown by metalorganic chemicalâ€vapor deposition. Journal of Applied Physics, 1986, 60, 3512-3518.	2.5	9
138	Ellipsometric characterization of surface oxidation in polycrystalline Zn3P2 thin films. Thin Solid Films, 1992, 214, 74-77.	1.8	9
139	Optical, vibrational and compositional study of amorphous silicon oxynitride thin films grown by an RF plasma using N2O + SiH4 gas mixtures. Applied Surface Science, 1993, 70-71, 695-700.	6.1	9
140	Carbon nitride thin-films deposited from coupled r.f.-magnetron sputtering and ion beam-assisted processes. Diamond and Related Materials, 2001, 10, 1175-1178.	3.9	9
141	Degradation of a solid state electrochromic device. Solid State Ionics, 2003, 165, 73-80.	2.7	9
142	Kinetic model for generation and growth of plasma dust nanoparticles. Chemical Physics Letters, 2005, 414, 423-428.	2.6	9
143	Anisotropic surface properties of micro/nanostructured a-C:H:F thin films with self-assembly applications. Journal of Applied Physics, 2012, 111, .	2.5	9
144	Aqueous stabilisation of carbon-encapsulated superparamagnetic Î±-iron nanoparticles for biomedical applications. Dalton Transactions, 2014, 43, 13764-13775.	3.3	9

#	Article	IF	Citations
145	New Three-Dimensional Porous Electrode Concept: Vertically-Aligned Carbon Nanotubes Directly Grown on Embroidered Copper Structures. Nanomaterials, 2017, 7, 438.	4.1	9
146	Indium thin films on metal-coated substrates. Thin Solid Films, 1985, 129, 103-109.	1.8	8
147	Effect of hydrogen dilution on the growth of hydrogenated amorphous silicon studied by in-situ phase-modulated ellipsometry. Thin Solid Films, 1993, 228, 109-112.	1.8	8
148	Production of boron nitride nanometric powder by plasma-enhanced chemical vapor deposition: microstructural characterization. Diamond and Related Materials, 1996, 5, 544-547.	3.9	8
149	Effects of thermal and laser annealing on silicon carbide nanopowder produced in radio frequency glow discharge. Diamond and Related Materials, 1997, 6, 1559-1563.	3.9	8
150	Silicon carbide nanoparticles for advanced materials produced in radio frequency modulated glow discharges. Vacuum, 1997, 48, 665-668.	3.5	8
151	Optical characterization of colloidal crystals based on dissymmetric metal-coated oxide submicrospheres. Thin Solid Films, 2008, 517, 1053-1057.	1.8	8
152	Surface Functionalization of Macroporous Polymeric Materials by Treatment with Air Low Temperature Plasma. Journal of Nanoscience and Nanotechnology, 2013, 13, 2819-2825.	0.9	8
153	Mueller matrix microscopy on a Morpho butterfly. Journal of Physics: Conference Series, 2015, 605, 012008.	0.4	8
154	Optical and electrical properties of a-SixNy:H films prepared by rf plasma using N2+SiH4 gas mixtures. Journal of Non-Crystalline Solids, 1991, 137-138, 895-898.	3.1	7
155	Effects of deposition temperature on properties of r.f. glow discharge amorphous silicon thin films. Thin Solid Films, 1991, 205, 140-145.	1.8	7
156	Spectroscopic ellipsometry measurements of the diamond-crystalline Si interface in chemically vapour-deposited polycrystalline diamond films. Diamond and Related Materials, 1993, 2, 728-731.	3.9	7
157	Properties of W/a-C nanometric multilayers produced by RF-pulsed magnetron sputtering. Diamond and Related Materials, 2002, 11, 1000-1004.	3.9	7
158	Visible and infrared ellipsometry applied to the study of metal-containing diamond-like carbon coatings. Thin Solid Films, 2004, 455-456, 370-375.	1.8	7
159	Kinetic model of thin film growth by vapor deposition. European Physical Journal D, 2005, 35, 505-511.	1.3	7
160	Morphological and Magnetic Properties of Superparamagnetic Carbon-Coated Fe Nanoparticles Produced by Arc Discharge. Journal of Nanoscience and Nanotechnology, 2010, 10, 2646-2649.	0.9	7
161	Nanoparticles in SiH4-Ar plasma: Modelling and comparison with experimental data. Journal of Applied Physics, 2011, 110, .	2.5	7
162	Synthesis of Carbon Encapsulated Mono- and Multi-Iron Nanoparticles. Journal of Nanomaterials, 2015, 2015, 1-10.	2.7	7

#	Article	IF	Citations
163	Conversion of a polarization microscope into a Mueller matrix microscope. Application to the measurement of textile fibers. Optica Pura Y Aplicada, 2015, 48, 309-316.	0.1	7
164	Microstructural and Vibrational Characterization of the Hydrogenated Amorphous Silicon Powders. Materials Research Society Symposia Proceedings, 1993, 297, 1031.	0.1	6
165	Pressure influence on the decay of the photoluminescence in Si nanopowder grown by plasmaâ€enhanced chemical vapor deposition. Applied Physics Letters, 1995, 67, 2830-2832.	3.3	6
166	High nucleation rate in pure SiC nanometric powder by a combination of room temperature plasmas and post-thermal treatments. Diamond and Related Materials, 1999, 8, 364-368.	3.9	6
167	Production of Silicon Powder by Square-Wave Modulated Rf Silane Plasma. Materials Research Society Symposia Proceedings, 1992, 286, 155.	0.1	5
168	Effect of methane/hydrogen dilution on the properties of hydrogenated amorphous carbon films deposited by RF-plasma. Diamond and Related Materials, 1992, 1, 538-542.	3.9	5
169	Calibration improvement of Fourier transform infrared phase-modulated ellipsometry. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 2461.	1.5	5
170	On the structural origin of the photoluminescence in silicon powder produced in PECVD processes. Thin Solid Films, 1996, 276, 96-99.	1.8	5
171	Synthesis of nanosize Siâ€“Câ€“N powder in low pressure plasmas. Vacuum, 1999, 52, 153-156.	3.5	5
172	Application of FTIR phase-modulated ellipsometry to the characterisation of thin films on surface-enhanced IR absorption active substrates. Thin Solid Films, 2001, 398-399, 99-103.	1.8	5
173	Thermal oxidation of polymer-like amorphous SixCyHwOz nanoparticles. Diamond and Related Materials, 2001, 10, 1295-1299.	3.9	5
174	Thermally Induced Structural Transformations on Polymorphous Silicon. Journal of Materials Research, 2005, 20, 2562-2567.	2.6	5
175	Characteristics of Carbon and Carbonâ€Nitride Nanostructures Produced by Plasma Deposition from Ammonia and Methane or Acetylene. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 447-455.	2.1	5
176	Vertically Aligned Carbon Nanotubes for Microelectrode Arrays Applications. Journal of Nanoscience and Nanotechnology, 2012, 12, 6941-6947.	0.9	5
177	Vertically aligned carbon nanotubes as anode and air-cathode in single chamber microbial fuel cells. Applied Physics Letters, 2016, 109, 163904.	3.3	5
178	Pressure dependence of photoluminescence in amorphous silicon nanopowder produced by plasma enhanced chemical vapour deposition. Materials Science and Technology, 1995, 11, 707-710.	1.6	4
179	Growth of boron nitride thin films by tuned substrate RF magnetron sputtering. Diamond and Related Materials, 1996, 5, 535-538.	3.9	4
180	In situ fast ellipsometric analysis of repetitive surface phenomena. Review of Scientific Instruments, 1997, 68, 3135-3139.	1.3	4

#	Article	IF	Citations
181	Microstructural and mechanical properties of nanometric-multilayered a-CN/a-C/â€¦/a-CN coatings deposited by rf-magnetron sputtering and nitrogen ion-beam bombardment. Diamond and Related Materials, 2001, 10, 952-955.	3.9	4
182	In-situ monitoring of laser annealing by micro-Raman spectroscopy for hydrogenated silicon nanoparticles produced in radio frequency glow discharge. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1296-1300.	1.8	4
183	Photonic Characteristics of Langmuir-Blodgett Self-Assembled Monolayers of Colloidal Silica Particles. Nanoscience and Nanotechnology Letters, 2013, 5, 41-45.	0.4	4
184	Laser-driven coating of vertically aligned carbon nanotubes with manganese oxide from metal organic precursors for energy storage. Nanotechnology, 2017, 28, 395405.	2.6	4
185	Rheotaxial growth of CuInSe2 thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 169-173.	2.1	3
186	Surface roughness evolution in the growth of a-Si: H thin films studied by ellipsometry. Surface Science, 1991, 251-252, 191-194.	1.9	3
187	Percolation Behaviour in the Electrical Characteristics of Hydrogenated Amorphous Silicon Nitride Films.. Materials Research Society Symposia Proceedings, 1992, 258, 655.	0.1	3
188	In situ real-time ellipsometric study of the growth of r.f. plasma deposited amorphous hydrogenated silicon oxynitride thin films. Thin Solid Films, 1993, 228, 137-140.	1.8	3
189	Produiion of a-Si1-x Cx:H powders using radiofrequency glow discharges of silane and methane mixtures.. Materials Research Society Symposia Proceedings, 1995, 410, 173.	0.1	3
190	Gas collisions and pressure quenching of the photoluminescence of silicon nanopowder grown by plasma-enhanced chemical vapor deposition. Journal of Applied Physics, 1997, 81, 3290-3293.	2.5	3
191	Modeling interface structures of cubic boron nitride films deposited heteroepitaxially and via a hexagonal boron nitride interlayer on silicon (001) surfaces. Diamond and Related Materials, 1997, 6, 589-593.	3.9	3
192	Thermal Desorption of Hydrogen in Si and Sic Nanoparticles Produced by Plasma-Enhanced Chemical-Vapor Deposition. Materials Research Society Symposia Proceedings, 1998, 513, 427.	0.1	3
193	FTIR phase-modulated ellipsometry characterization of hydrogenated amorphous silicon nitride thin films with embedded nanoparticles. Thin Solid Films, 2004, 455-456, 167-171.	1.8	3
194	Anomalous crystallization of hydrogenated amorphous silicon during fast heating ramps. Journal of Materials Research, 2005, 20, 277-281.	2.6	3
195	Magnetic domain wall pinning by focused ion beam milling of permalloy layers. Microelectronic Engineering, 2009, 86, 878-881.	2.4	3
196	Liquid switchable radial polarization converters made of sculptured thin films. Applied Surface Science, 2019, 475, 230-236.	6.1	3
197	Tribological Properties of Fluorinated Amorphous Carbon Thin Films. , 0, , .		3
198	Indium liquid films on glass substrates. Thin Solid Films, 1983, 103, L51-L54.	1.8	2

#	Article	IF	Citations
199	Crystalline properties of In-Doped CdS thin films. Journal of Crystal Growth, 1987, 84, 483-488.	1.5	2
200	Effects of r.f. power on optical and electrical properties of plasma-deposited hydrogenated amorphous silicon thin films. Sensors and Actuators A: Physical, 1993, 37-38, 733-736.	4.1	2
201	Optical and Electrical Real-Time Characterization of the Color-Switching Process in Thin Film Electrochromic Devices. Materials Research Society Symposia Proceedings, 1995, 403, 527.	0.1	2
202	Application of infrared Fourier transform phase-modulated ellipsometry to the characterization of silicon-based amorphous thin films. Thin Solid Films, 1998, 313-314, 671-675.	1.8	2
203	Study of the Optical and Structural Properties of Siliconâ€“Carbon Nanometric Powder Using Infrared Phase Modulated Ellipsometry and Electron Microscopy. Physica Status Solidi A, 1999, 175, 373-381.	1.7	2
204	Physical Properties of Sputtered ITO and WO₃ Thin Films. Materials Science Forum, 2004, 455-456, 7-11.	0.3	2
205	Detection and characterization of single nanoparticles by interferometric phase modulated ellipsometry. Thin Solid Films, 2011, 519, 2801-2805.	1.8	2
206	Hot-Wire Chemical Vapor Deposition of Few-Layer Graphene on Copper Substrates. Japanese Journal of Applied Physics, 2013, 52, 01AK02.	1.5	2
207	3D distribution of magnetic CoNi alloy nanoparticles electrodeposited on vertically aligned MWCNT showing exceptional coercive field. Materials Letters, 2014, 124, 8-11.	2.6	2
208	Composition Analysis of RF Plasma-Deposited Amorphous Silicon Oxynitride Thin Films by Spectroscopic Phase-Modulated Ellipsometry. Materials Research Society Symposia Proceedings, 1992, 284, 351.	0.1	1
209	Study of thin films of transparent electronic materials by phase-modulated spectroellipsometry. Thin Solid Films, 1993, 233, 223-226.	1.8	1
210	IR-Visible Photoluminescence Study of Nanometer-Size Amorphous Silicon Powder Produced by Square-Wave-Modulated RF Glow Discharge. Materials Research Society Symposia Proceedings, 1994, 351, 405.	0.1	1
211	Real Time Ellipsometric Study of Boron Nitride Thin Film Growth. Materials Research Society Symposia Proceedings, 1995, 410, 307.	0.1	1
212	Calorimetric Study of the Thermal Induced Transformations of Ultrafine Silicon Carbide Powder Produced by RF Glow Discharge. Key Engineering Materials, 1997, 132-136, 145-148.	0.4	1
213	Thermal Stabilization and Crystallization of Nanometric Particles of Si-C-N Produced by RF-Plasma Enhanced Chemical-Vapor-Deposition. Materials Research Society Symposia Proceedings, 2000, 609, 2451.	0.1	1
214	Step-by-step simulations of diamond nucleation and growth on a silicon (001) surface. Diamond and Related Materials, 2000, 9, 146-155.	3.9	1
215	Si-N nanowire formation from Silicon nano and microparticles.. Materials Research Society Symposia Proceedings, 2003, 789, 18.	0.1	1
216	Electrochromic tungsten oxide multilayer thin films for use in smart windows. , 2003, 4829, 817.		1

#	Article	IF	Citations
217	Kinetic Model for Production and Growth of Dust Nanoparticles in Low Pressure Plasmas of RF Discharges. AIP Conference Proceedings, 2005, , .	0.4	1
218	A self-consistent model for the production and growth of nanoparticles in low-temperature plasmas. Russian Journal of Physical Chemistry B, 2008, 2, 315-328.	1.3	1
219	Analytic model of nanoparticle formation and growth in a SiH4-Ar plasma. Technical Physics, 2009, 54, 674-681.	0.7	1
220	Self-assembled layers of colloidal crystals submicron spheres for photonic applications. , 2012, , .		1
221	Template growth of vertically aligned carbon nanotubes using self-assembled monolayers of SiO2 particles by Langmuirâ€“Blodgett technique. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	1
222	Study of the oxidization of ns-SiNx:H thin films using FTIR phase modulated ellipsometry. , 2004, , .		1
223	Analysis of the capacitance of CdS/CuInSe2 thin film heterojunctions. Thin Solid Films, 1985, 125, 107-112.	1.8	0
224	Amorphous Silicon Thin Film Transistors With High Electron Field Effect Mobility. Materials Research Society Symposia Proceedings, 1992, 258, 1007.	0.1	0
225	Comparative Study of the Optical and Vibrational Properties of a-SiNx:H Films Prepared from SiH4-N2 and SiH4-NH3 Gas Mixtures by rf Plasma. Materials Research Society Symposia Proceedings, 1992, 258, 643.	0.1	0
226	Thermal Oxidation of Si Nanoparticles Grown by Plasma-Enhanced CVD. Materials Research Society Symposia Proceedings, 2000, 609, 5111.	0.1	0
227	Growth Study and Characterization of Single-Layer Graphene Structures Deposited on Copper Substrate by Chemical Vapour Deposition. , 0, , .		0
228	Wool Surface Modification And Its Influence On Related Functional Properties. , 0, , 139-156.		0