

Mariuca Gartner

List of Publications by Year in descending order

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151
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152
all docs

152
docs citations

152
times ranked

2662
citing authors

#	ARTICLE	IF	CITATIONS
1	TiO ₂ (Fe ³⁺) nanostructured thin films with antibacterial properties. Thin Solid Films, 2003, 433, 186-190.	0.8	198
2	Optical characterization and microstructure of BaTiO ₃ thin films obtained by RF-magnetron sputtering. Applied Surface Science, 2006, 253, 344-348.	3.1	90
3	Deposition and characterisation of bismuth oxide thin films. Journal of the European Ceramic Society, 2005, 25, 2171-2174.	2.8	71
4	Optical and thermal characterization of AlN thin films deposited by pulsed laser deposition. Applied Surface Science, 2002, 186, 507-512.	3.1	58
5	Optical and structural characterization of AlInN layers for optoelectronic applications. Journal of Applied Physics, 2010, 108, .	1.1	57
6	Preparation of BiFeO ₃ films by wet chemical method and their characterization. Journal of the European Ceramic Society, 2007, 27, 937-940.	2.8	54
7	Spectroscopic characterization of CVD-molybdenum oxide films. Electrochimica Acta, 2001, 46, 2215-2219.	2.6	39
8	Chemical solution deposition and characterization of BiFeO ₃ thin films. Journal of the European Ceramic Society, 2007, 27, 4417-4420.	2.8	37
9	Effect of polyethylene glycol on porous transparent TiO ₂ films prepared by sol-gel method. Ceramics International, 2014, 40, 2209-2220.	2.3	37
10	Hydroxyapatite films obtained by sol-gel and sputtering. Thin Solid Films, 2008, 516, 8112-8116.	0.8	35
11	Nb-doped TiO ₂ sol-gel films for CO sensing applications. Materials Science in Semiconductor Processing, 2016, 42, 397-404.	1.9	35
12	Optical properties of LPCVD silicon oxynitride. Thin Solid Films, 1999, 337, 82-84.	0.8	34
13	Nanostructured SnO ₂ -ZnO composite gas sensors for selective detection of carbon monoxide. Beilstein Journal of Nanotechnology, 2016, 7, 2045-2056.	1.5	34
14	Morphology, structure and optical properties of sol-gel ITO thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 101, 222-226.	1.7	33
15	Investigation on the nitrogen doping of multilayered, porous TiO ₂ thin films. Thin Solid Films, 2008, 516, 8184-8189.	0.8	32
16	Nitrite electrochemical sensing platform based on tin oxide films. Sensors and Actuators B: Chemical, 2020, 316, 128102.	4.0	32
17	Spectroellipsometric characterization of lanthanide-doped TiO ₂ films obtained via the sol-gel technique. Thin Solid Films, 1993, 234, 561-565.	0.8	30
18	Investigation on preparation and physical properties of nanocrystalline Si/SiO ₂ superlattices for Si-based light-emitting devices. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 461-466.	1.3	30

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19	The effect of thermal treatment on antibacterial properties of nanostructured TiO ₂ (N) films illuminated with visible light. World Journal of Microbiology and Biotechnology, 2009, 25, 27-31.	1.7	29
20	Characterization of carbon nitride thin films deposited by a combined RF and DC plasma beam. Thin Solid Films, 1998, 325, 123-129.	0.8	28
21	Atomic force microscopy study of TiO ₂ sol-gel films thermally treated under NH ₃ atmosphere. Thin Solid Films, 2009, 517, 6243-6247.	0.8	28
22	Sol-gel versus sputtering indium tin oxide films as transparent conducting oxide materials. Journal of Materials Science: Materials in Electronics, 2016, 27, 4913-4922.	1.1	27
23	Band gap bowing of binary alloys: Experimental results compared to theoretical tight-binding supercell calculations for $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$. Physical Review B, 2010, 82, .	1.1	26
24	Properties of In-doped p-type ZnO nanorods grown through a two-step chemical route. Applied Surface Science, 2015, 344, 196-204.	3.1	25
25	Spectroellipsometric Characterization of Multilayer Sol-Gel Fe ₂ O ₃ Films. Journal of Sol-Gel Science and Technology, 2003, 26, 745-748.	1.1	24
26	Correlation between the method of preparation and the properties of the sol-gel HfO ₂ thin films. Journal of Non-Crystalline Solids, 2008, 354, 409-415.	1.5	24
27	Experiments for inorganic-organic hybrid sol-gel films for micro- and nano-photonics. Materials Science and Engineering C, 2003, 23, 301-306.	3.8	23
28	Structure and properties of the V-doped TiO ₂ thin films obtained by sol-gel and microwave-assisted sol-gel method. Journal of Sol-Gel Science and Technology, 2016, 78, 589-599.	1.1	23
29	High-quality PMMA/ZnO NWs piezoelectric coating on rigid and flexible metallic substrates. Applied Surface Science, 2020, 529, 147135.	3.1	23
30	Spectroellipsometric study of the sol-gel nanocrystalline ITO multilayer films. Thin Solid Films, 2004, 455-456, 509-512.	0.8	22
31	SiO ₂ nanospheres and tubes obtained by sol-gel method. Journal of Non-Crystalline Solids, 2010, 356, 2634-2640.	1.5	21
32	Miniaturised MOX based sensors for pollutant and explosive gases detection. Sensors and Actuators B: Chemical, 2017, 249, 647-655.	4.0	21
33	Optical properties of silicon thin films related to LPCVD growth condition. Thin Solid Films, 2004, 450, 105-110.	0.8	20
34	Spectroellipsometric characterization of sol-gel TiO ₂ -CuO thin coatings. Thin Solid Films, 2004, 455-456, 417-421.	0.8	19
35	TiO ₂ -based vitreous coatings obtained by sol-gel method. Journal of Non-Crystalline Solids, 1993, 160, 162-166.	1.5	18
36	Pulsed laser deposition of lithium niobate: a parametric study. Applied Surface Science, 1999, 138-139, 617-621.	3.1	18

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37	Microstructural and optical properties of as-deposited LPCVD silicon films. <i>Thin Solid Films</i> , 2001, 383, 254-257.	0.8	18
38	Investigation on optical and microstructural properties of photoluminescent LPCVD SiO _x N _y thin films. <i>Optical Materials</i> , 2001, 17, 145-148.	1.7	18
39	Structural and optical properties of the SiO ₂ -P ₂ O ₅ films obtained by sol-gel method. <i>Thin Solid Films</i> , 2007, 515, 6601-6605.	0.8	18
40	Surface modification and chemical sensitivity of sol gel deposited nanocrystalline ZnO films. <i>Materials Chemistry and Physics</i> , 2018, 209, 165-171.	2.0	18
41	ZnO based transparent conductive oxide films with controlled type of conduction. <i>Thin Solid Films</i> , 2014, 571, 727-734.	0.8	17
42	Loss of phosphorous in silica-phosphate sol-gel films. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 40, 325-333.	1.1	16
43	Stabilization of the anatase phase in TiO ₂ (Fe ³⁺ , PEG) nanostructured coatings. <i>Applied Surface Science</i> , 2006, 253, 367-371.	3.1	15
44	SiO _x -P ₂ O ₅ films promising components in photonic structure. <i>Optical and Quantum Electronics</i> , 2007, 39, 511-521.	1.5	15
45	Structural and electrical properties of Nb doped TiO ₂ films prepared by the sol-gel layer-by-layer technique. <i>Materials Research Bulletin</i> , 2016, 74, 15-20.	2.7	15
46	Optical, microstructural and vibrational properties of sol-gel ITO films. <i>Optical Materials</i> , 2021, 114, 110999.	1.7	15
47	Crystallization of a-Si:H films by rapid thermal annealing. <i>Journal of Non-Crystalline Solids</i> , 1998, 227-230, 954-957.	1.5	14
48	Influence of thermal treatment in N ₂ atmosphere on chemical, microstructural and optical properties of indium tin oxide and nitrogen doped indium tin oxide rf-sputtered thin films. <i>Thin Solid Films</i> , 2013, 541, 121-126.	0.8	14
49	Multi-stage pulsed laser deposition of aluminum nitride at different temperatures. <i>Applied Surface Science</i> , 2016, 374, 143-150.	3.1	14
50	Tubular and Spherical SiO ₂ Obtained by Sol Gel Method for Lipase Immobilization and Enzymatic Activity. <i>Molecules</i> , 2018, 23, 1362.	1.7	14
51	Investigation on optical properties of CVD films used in MOEMS applications. <i>Journal of Molecular Structure</i> , 2001, 565-566, 519-523.	1.8	13
52	Structure, morphology and optical properties of multilayered sol-gel BaTi _{0.85} Zr _{0.15} O ₃ thin films. <i>Applied Surface Science</i> , 2013, 265, 510-518.	3.1	13
53	Effect of nitrogen incorporation on the structural, optical and dielectric properties of reactive sputter grown ITO films. <i>Applied Surface Science</i> , 2014, 313, 311-319.	3.1	13
54	Tin-Zinc oxide composite ceramics for selective CO sensing. <i>Ceramics International</i> , 2016, 42, 16677-16684.	2.3	13

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55	Influence of laser pulse frequency on the microstructure of aluminum nitride thin films synthesized by pulsed laser deposition. <i>Applied Surface Science</i> , 2017, 394, 197-204.	3.1	13
56	Spectro-ellipsometric investigations of polycrystalline silicon surface roughness. <i>Microelectronic Engineering</i> , 1996, 31, 309-316.	1.1	12
57	TiO ₂ -based porous materials obtained from gels, in different experimental conditions. <i>Journal of Sol-Gel Science and Technology</i> , 1997, 8, 249-253.	1.1	12
58	High-reflectivity II-VI-based distributed Bragg reflectors for the blue-violet spectral range. <i>Applied Physics Letters</i> , 2011, 99, 151101.	1.5	12
59	Coloured TiO ₂ based glazing obtained by spray pyrolysis for solar thermal applications. <i>Ceramics International</i> , 2014, 40, 3903-3911.	2.3	12
60	Influence of compositional variation on the optical and morphological properties of Ge Sb Se films for optoelectronics application. <i>Infrared Physics and Technology</i> , 2018, 93, 260-270.	1.3	12
61	TiO ₂ –SiO ₂ sol–gel hybrid films and their sensitivity to gaseous toluene. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 693-699.	1.5	11
62	IR studies of impurities in chalcogenide glasses and thin films of the Ge-Sb-S-Te system. <i>Journal of Physics: Conference Series</i> , 2012, 356, 012047.	0.3	11
63	Influence of the substrate and nitrogen amount on the microstructural and optical properties of thin r.f.-sputtered ZnO films treated by rapid thermal annealing. <i>Applied Surface Science</i> , 2012, 261, 815-823.	3.1	11
64	CO sensing properties of SnO ₂ –CeO ₂ mixed oxides. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016, 117, 551-563.	0.8	11
65	Optical and Piezoelectric Properties of Mn-Doped ZnO Films Deposited by Sol-Gel and Hydrothermal Methods. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-12.	1.5	11
66	Optical and microstructural properties of TiO ₂ (Ni ²⁺) thin films. <i>Ceramics International</i> , 1996, 22, 95-99.	2.3	10
67	Structural analysis of silicon dioxide and silicon oxynitride films produced using an oxygen plasma. <i>IEEE Transactions on Plasma Science</i> , 1998, 26, 1700-1712.	0.6	10
68	Influence of the substrate type on the microstructural, optical and electrical properties of sol–gel ITO films. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 303-312.	1.1	10
69	VIS/IR spectroscopy of thin AlN films grown by pulsed laser deposition at 400°C and 800°C and various N ₂ pressures. <i>Journal of Physics: Conference Series</i> , 2014, 514, 012001.	0.3	10
70	Niobium/Vanadium doped TiO ₂ multilayered sol-gel films: Structure, surface chemistry and optical properties. <i>Ceramics International</i> , 2016, 42, 13805-13811.	2.3	10
71	Spectroellipsometric Investigation of LPCVD Polysilicon: As Deposited and After Hydrogenation. <i>Journal De Physique III</i> , 1996, 6, 225-235.	0.3	10
72	Optical and electrical properties of LPCVD silicon oxynitride films on silicon. <i>Vacuum</i> , 2001, 61, 205-209.	1.6	9

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73	Sol-Gel SiO ₂ -ZrO ₂ Coatings for Optical Applications. Journal of Sol-Gel Science and Technology, 2004, 32, 167-172.	1.1	9
74	Photothermal and photocatalytic processes on TiO ₂ based materials prepared by sol-gel method. Journal of Sol-Gel Science and Technology, 2006, 37, 175-178.	1.1	9
75	Depth profiling Raman spectroscopy of a thin YBa ₂ Cu ₃ O _{7-δ} film. Thin Solid Films, 2008, 516, 8190-8194.	0.8	9
76	Substrate impact on optical and microstructural properties of TiO ₂ “PEG sol”gel films. Ceramics International, 2014, 40, 11803-11811.	2.3	9
77	Investigation of the Atomic Structure of Ge-Sb-Se Chalcogenide Glasses. Advances in Condensed Matter Physics, 2018, 2018, 1-11.	0.4	9
78	Sol-gel Zn, Fe modified SnO ₂ powders for CO sensors and magnetic applications. Chemical Engineering Research and Design, 2018, 117, 722-729.	2.7	9
79	Doped Sol-gel TiO ₂ Films for Biological Applications. Bulletin of the Korean Chemical Society, 2008, 29, 1038-1042.	1.0	9
80	Investigation on preparation and physical properties of LPCVD Si _x O _y N _z thin films and nanocrystalline Si/Si _x O _y N _z superlattices for Si-based light emitting devices. Materials Science and Engineering C, 2002, 19, 225-228.	3.8	8
81	Hybrid Inorganic-Organic Sol-Gel Coatings in the SiO ₂ -TiO ₂ System. Journal of Sol-Gel Science and Technology, 2004, 32, 173-177.	1.1	8
82	Optical characterization of In _x Ga _{1-x} N alloys. Applied Surface Science, 2006, 253, 254-257.	3.1	8
83	Optical, morphological and durability studies of quaternary chalcogenide Ge-Sb(As)-(S,Te) films. Materials Research Bulletin, 2018, 106, 234-242.	2.7	8
84	The ellipsometry versatility in the study of sol-gel films. Journal of Sol-Gel Science and Technology, 2021, 98, 1-23.	1.1	8
85	Microstructural information from optical properties of LPCVD silicon films annealed at low temperature. Sensors and Actuators A: Physical, 2002, 99, 160-164.	2.0	7
86	In situ observation of Zn-induced etching during CdSe quantum dot formation using time-resolved ellipsometry. Applied Physics Letters, 2007, 90, 221102.	1.5	7
87	Sensing Layer for Ni Detection in Water Created by Immobilization of Bioengineered Flagellar Nanotubes on Gold Surfaces. ACS Biomaterials Science and Engineering, 2020, 6, 3811-3820.	2.6	7
88	Determination of the Fermi level position in dilute magnetic Ga _{1-x} Mn _x N films. Journal of Applied Physics, 2014, 115, 123706.	1.1	6
89	Investigation of the Effects of Rapid Thermal Annealing on the Electron Transport Mechanism in Nitrogen-Doped ZnO Thin Films Grown by RF Magnetron Sputtering. Nanomaterials, 2022, 12, 19.	1.9	6
90	Capacity coupled r.f. discharge plasma jet treatment of a-SiC:H structures. Thin Solid Films, 1997, 296, 23-27.	0.8	5

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91	Physical-optical properties of LPCVD amorphous silicon rich-nitride and oxynitride. , 0, , .		5
92	Spectroscopic and X-ray diffraction study of high Tc epitaxial YBCO thin films obtained by pulsed laser deposition. Applied Surface Science, 2006, 253, 400-404.	3.1	5
93	Infrared ellipsometry as an investigation tool of thin layers grown into plasma immersion N+ implanted silicon. Applied Surface Science, 2012, 258, 7195-7201.	3.1	5
94	Structural, textural, surface chemistry and sensing properties of mesoporous Pr, Zn modified SnO ₂ /TiO ₂ powder composites. Ceramics International, 2016, 42, 14992-14998.	2.3	5
95	Preparation and characterization of SiO ₂ -Sb ₂ O ₃ films obtained by a sol-gel method. Journal of Non-Crystalline Solids, 1992, 151, 109-114.	1.5	4
96	Optical characterization of dielectric borophosphosilicate glass. Microelectronics Reliability, 2000, 40, 617-620.	0.9	4
97	Optical and Structural Properties of SnO ₂ -Based Sol-Gel Thin Films. , 2006, , .		4
98	Optical investigations of tin and zinc oxides as TCOs films. , 2012, , .		4
99	Synthesis method and substrate influence on TiO ₂ films doped with low vanadium content. Materials Science in Semiconductor Processing, 2017, 68, 118-127.	1.9	4
100	Inter-trap tunneling in vanadium doped TiO ₂ sol-gel films. Materials Research Bulletin, 2020, 127, 110854.	2.7	4
101	Structural and morphological changes in low temperature annealed LPCVD Si layers. European Physical Journal Special Topics, 2001, 11, Pr3-315-Pr3-323.	0.2	4
102	SiO ₂ -Sm ₂ O ₃ vitreous films via the sol-gel method. Journal of Materials Science, 1993, 28, 4435-4441.	1.7	3
103	Spectroellipsometric investigation of optical properties of SiO ₂ grown by wet thermal oxidation. Surface Science, 2001, 482-485, 448-452.	0.8	3
104	Deposition and characterization of BiFeO ₃ thin films on different substrates. Journal of Materials Science: Materials in Electronics, 2007, 18, 187-190.	1.1	3
105	Surface topography and optical properties of Ge-Sb(As)-S-Te thin films by atomic-force microscopy and variable angle spectroscopic ellipsometry. Journal of Physics: Conference Series, 2012, 356, 012019.	0.3	3
106	High atomic diffusivity during pulsed laser irradiation of TiON quasi-amorphous films. Applied Surface Science, 2016, 374, 248-251.	3.1	3
107	Simulation Studies for Random Sequential Adsorption in Narrow Slit: Two-Dimensional Parking Model. Bulletin of the Korean Chemical Society, 2008, 29, 873-875.	1.0	3
108	Implanted damage evolution in sequential annealed silicon. Nuclear Instruments & Methods in Physics Research B, 1994, 85, 933-935.	0.6	2

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109	SiO ₂ -TiO ₂ Undoped or (Er ³⁺) Doped Thin Layers for Integrate Optics Prepared by Sol-Gel Method. Semiconductor Conference, 2009 CAS 2009 International, 2007, , .	0.0	2
110	Surface topographic study of chalcogenide thin films of GexSb(As)40~xS50Te10 glasses. Micron, 2014, 59, 1-7.	1.1	2
111	TEM and AFM studies of aluminium nitride films synthesized by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	2
112	Fermi Level Pinning at n-GaAs(110) Electrodes. , 2006, , 257-262.		2
113	Surface and interface phenomena in titanium dioxide films studied by spectroellipsometry. , 1995, , .		1
114	Effect of composition on refractive index dispersion in Ge-Sb-S thin films. , 0, , .		1
115	High-optical-quality LiNbO ₃ thin films obtained by pulsed laser deposition. , 1998, , .		1
116	Study of the conductivity in MIS structures with sol-gel TiO ₂ /dielectric films. , 0, , .		1
117	Sol-gel preparation of thin films for integrated optics. , 0, , .		1
118	Synthesis and optical properties of Ni doped SnO ₂ films. Proceedings of SPIE, 2012, , .	0.8	1
119	Annealing of Si surface region modified by plasma immersion implantation of nitrogen. Journal of Physics: Conference Series, 2012, 356, 012031.	0.3	1
120	XPS study of nanoscale SiO _x N _y layers synthesized by plasma immersion implantation of nitrogen. Journal of Physics: Conference Series, 2014, 514, 012035.	0.3	1
121	Optical characterization of composite layers prepared by plasma polymerization. Journal of Physics: Conference Series, 2016, 682, 012025.	0.3	1
122	New system for nitrites and nitrates detection from natural water sources. , 2018, , .		1
123	Optical Properties of Oxidized, Hydrogenated, and Native Zirconium Surfaces for Wavelengths from 0.3 to 25µm A Study by Ex Situ and In Situ Spectroscopic Ellipsometry. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800676.	0.8	1
124	The Simulation in the Real Conditions of Antibacterial Activity of TiO ₂ (Fe) Films with Optimized Morphology. Ceramic Engineering and Science Proceedings, 0, , 67-76.	0.1	1
125	Microstructure-optical properties correlation in PZT films. , 0, , .		0
126	PbTiO ₃ films via sol-gel. , 0, , .		0

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127	Transmission electron microscopy and spectroellipsometric investigation of LPCVD polysilicon as-deposited and after hydrogenation. , 0, , .		0
128	A quantitative analysis of the penetration of SnO/sub 2/ into porous silicon. , 0, , .		0
129	Laser and nitrogen plasma beam induced modifications in amorphous silicon thin films. Applied Surface Science, 1997, 109-110, 87-92.	3.1	0
130	Spectroellipsometric characterization of multilayer systems containing Ni and Bi. , 1998, , .		0
131	III-V compounds and piezoelectric ceramic thin films deposited by reactive PLD: application to sensor building. , 1998, , .		0
132	Sol-gel TiO/sub 2/(La) films as gate dielectric in MOS structures. , 0, , .		0
133	Some results concerning the performance of quarter-wave Fresnel Birhomb. , 1998, 3573, 307.		0
134	Dielectric properties of sol-gel TiO 2 (La) films. , 1998, , .		0
135	Ellipsometric studies of indium tin oxide films deposited by sol-gel process. , 0, , .		0
136	Optical characterization of ion implantation in Si and Si/SiO2 structures: spectroellipsometric (SE) and second harmonic generation (SHG) results. Microelectronics Reliability, 1999, 39, 291-295.	0.9	0
137	Preparation and optical characterisation of APCVD BPSG thin films used for micromachining applications. , 0, , .		0
138	Internal structure of the nanosized sol-gel ITO thin films. , 0, , .		0
139	Microstructural and optical properties of LPCVD polysilicon films. , 0, , .		0
140	Microphysical investigation of low temperature annealed LPCVD polysilicon thin films. , 0, , .		0
141	Experiments for waveguide fabrication based on sol-gel process. , 0, , .		0
142	Optical and Microstructural Properties of Sol-Gel TiO<inf>x</inf>N<inf>y</inf> Thin Films. Semiconductor Conference, 2009 CAS 2009 International, 2007, , .	0.0	0
143	The influence of deep levels on the admittance of MIS structures with sol-gel TiO<inf>2</inf> insulator film. , 2008, , .		0
144	Hybrid sol-gel silica films with (TiO2-CeO2) binary nanopowders. Journal of Physics: Conference Series, 2012, 356, 012018.	0.3	0

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145	Surface morphology of RF plasma immersion H ⁺ ion implanted and oxidized Si(100) surface. Journal of Physics: Conference Series, 2014, 514, 012036.	0.3	0
146	Electrical characterization of In-N codoped p-type ZnO films grown by chemical methods. Journal of Physics: Conference Series, 2014, 558, 012038.	0.3	0
147	Electrochemical Sensors for Detection of Different Ionic Species (Nitrites/Nitrates and Heavy Metals) in Natural Water Sources. , 2018, , .		0
148	Piezoelectric 1-D nanostructures for the energy harvesting applications. , 2019, , .		0
149	Study of silicon surface layers modified by hydrogen plasma immersion ion implantation and oxidation. Journal of Physics: Conference Series, 2020, 1492, 012056.	0.3	0
150	Optical Properties of Sputtering and Glow Discharge a-C:H Films. , 1995, , 285-290.		0
151	Methods for the Integration of New Architectural Nanostructures with MEMS Systems for Sensors and Harvester Devices. ECS Meeting Abstracts, 2020, MA2020-01, 2279-2279.	0.0	0