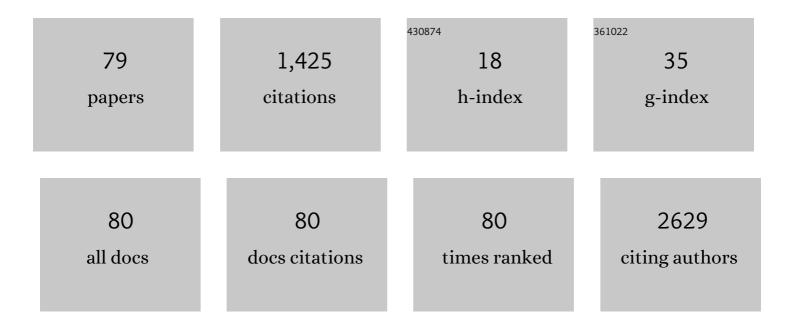
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Large-Scale Synthesis of Colloidal Fe ₃ O ₄ Nanoparticles Exhibiting High Heating Efficiency in Magnetic Hyperthermia. Journal of Physical Chemistry C, 2014, 118, 8691-8701.	3.1	226
2	Vapor–solid synthesis of monolithic single-crystalline CoP nanowire electrodes for efficient and robust water electrolysis. Chemical Science, 2017, 8, 2952-2958.	7.4	162
3	Atomic-layer-deposited ultrafine MoS ₂ nanocrystals on cobalt foam for efficient and stable electrochemical oxygen evolution. Nanoscale, 2017, 9, 2711-2717.	5.6	88
4	Nano-ilmenite FeTiO3: Synthesis and characterization. Journal of Magnetism and Magnetic Materials, 2013, 331, 129-132.	2.3	76
5	Optical characterization of TiAlN/TiAlON/SiO2 absorber for solar selective applications. Surface and Coatings Technology, 2012, 211, 41-44.	4.8	69
6	Dielectric function of nanocrystalline silicon with few nanometers (<3 nm) grain size. Applied Physics Letters, 2003, 82, 2993-2995.	3.3	58
7	On-line monitoring of the residence time distribution along a kneading block of a twin-screw extruder. Polymer Testing, 2004, 23, 925-937.	4.8	42
8	Electrosprayed whey protein-based nanocapsules for β-carotene encapsulation. Food Chemistry, 2020, 314, 126157.	8.2	36
9	A novel approach to reduce in-service temperature in WC-Co cutting tools. Ceramics International, 2020, 46, 3002-3008.	4.8	34
10	Macrocrystalline silicon thin films prepared by RF reactive magnetron sputter deposition. Vacuum, 1995, 46, 1385-1390.	3.5	29
11	The effect of argon plasma treatment on the permeation barrier properties of silicon nitride layers. Surface and Coatings Technology, 2013, 235, 361-366.	4.8	28
12	Resonant Raman scattering in ZnO:Mn and ZnO:Mn:Al thin films grown by RF sputtering. Journal of Physics Condensed Matter, 2011, 23, 334205.	1.8	26
13	High-Temperature Magnetism as a Probe for Structural and Compositional Uniformity in Ligand-Capped Magnetite Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 28322-28329.	3.1	26
14	Negative thermoelectric power of melt mixed vapor grown carbon nanofiber polypropylene composites. Carbon, 2019, 150, 408-416.	10.3	25
15	Comparison of soybean hull pre-treatments to obtain cellulose and chemical derivatives: Physical chemistry characterization. Carbohydrate Polymers, 2018, 198, 601-610.	10.2	21
16	Laser surface texturing of Ti-6Al-4V by nanosecond laser: Surface characterization, Ti-oxide layer analysis and its electrical insulation performance. Materials Science and Engineering C, 2019, 104, 109901.	7.3	21
17	A Microinjected 3-Axis Thermal Accelerometer. Procedia Engineering, 2011, 25, 607-610.	1.2	20
18	Optimisation of surface treatments of TiO2:Nb transparent conductive coatings by a post-hot-wire annealing in a reducing H2 atmosphere. Thin Solid Films, 2014, 550, 404-412.	1.8	20

#	Article	IF	CITATIONS
19	Structural studies and influence of the structure on the electrical and optical properties of microcrystalline silicon thin films produced by RF sputtering. Thin Solid Films, 2000, 370, 128-136.	1.8	19
20	Effect of hot-filament annealing in a hydrogen atmosphere on the electrical and structural properties of Nb-doped TiO2 sputtered thin films. Thin Solid Films, 2012, 520, 2514-2519.	1.8	19
21	Wafer scale fabrication of graphene microelectrode arrays for the detection of DNA hybridization. Microelectronic Engineering, 2018, 189, 85-90.	2.4	19
22	Characterization of magnetron sputtered sub-stoichiometric CrAlSiN x and CrAlSiO y N x coatings. Surface and Coatings Technology, 2017, 328, 134-141.	4.8	18
23	Vapor grown carbon nanofiber based cotton fabrics with negative thermoelectric power. Cellulose, 2020, 27, 9091-9104.	4.9	18
24	Influence of hydrogen plasma thermal treatment on the properties ofÂZnO:Al thin films prepared by dc magnetron sputtering. Vacuum, 2014, 107, 145-154.	3.5	16
25	Raman study of insulating and conductive ZnO:(Al, Mn) thin films. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2345-2354.	1.8	16
26	The annealing effect on structural and optical properties of ZnO thin films produced by r.f. sputtering. Superlattices and Microstructures, 2007, 42, 265-269.	3.1	15
27	Raman study of dopedâ€ZnO thin films grown by rf sputtering. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2290-2293.	0.8	13
28	Characterisation of chemical bath deposited CdS thin films on different substrates using electrolyte contacts. Thin Solid Films, 2011, 519, 7583-7586.	1.8	13
29	Wetting behaviour of SAC305 solder on different substrates in high vacuum and inert atmosphere. Journal of Materials Science: Materials in Electronics, 2015, 26, 5106-5112.	2.2	13
30	Fabrication of GeSn-multiple quantum wells by overgrowth of Sn on Ge by using molecular beam epitaxy. Applied Physics Letters, 2015, 107, .	3.3	12
31	Permeation barrier performance of Hot Wire-CVD grown silicon-nitride films treated by argon plasma. Thin Solid Films, 2015, 575, 72-75.	1.8	12
32	Structural and vibrational properties of SnxGe1-x: Modeling and experiments. Journal of Applied Physics, 2018, 124, .	2.5	11
33	Study on excimer laser irradiation for controlled dehydrogenation and crystallization of boron doped hydrogenated amorphous/nanocrystalline silicon multilayers. Thin Solid Films, 2013, 536, 147-151.	1.8	10
34	Epitaxial CuInSe2 thin films grown by molecular beam epitaxy and migration enhanced epitaxy. Journal of Crystal Growth, 2017, 475, 300-306.	1.5	10
35	Temperature dependence of the first order Raman scattering in thin films of μc-Si:H. Journal of Materials Processing Technology, 1999, 92-93, 235-238.	6.3	9
36	Effect of argon ion energy on the performance of silicon nitride multilayer permeation barriers grown by hot-wire CVD on polymers. Thin Solid Films, 2015, 595, 258-265.	1.8	9

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37	Raman and IR-ATR spectroscopy studies of heteroepitaxial structures with a GaN:C top layer. Journal Physics D: Applied Physics, 2017, 50, 365103.	2.8	9
38	Laser printing of silver-based micro-wires in ZrO2 substrate for smart implant applications. Optics and Laser Technology, 2020, 131, 106416.	4.6	9
39	Electrical and Raman Scattering Studies of ZnO:P and ZnO:Sb Thin Films. Journal of Nanoscience and Nanotechnology, 2010, 10, 2620-2623.	0.9	8
40	Flexible CuInSe2 photovoltaic cells fabricated by non-vacuum techniques. Thin Solid Films, 2011, 519, 7272-7275.	1.8	8
41	Multi-stacks of epitaxial GeSn self-assembled dots in Si: Structural analysis. Journal of Applied Physics, 2015, 117, 125706.	2.5	8
42	Photoluminescence from ultrathin Ge-rich multiple quantum wells observed up to room temperature: Experiments and modeling. Physical Review B, 2016, 94, .	3.2	8
43	Laser printing of micro-electronic communication systems for smart implants applications. Optics and Laser Technology, 2020, 128, 106211.	4.6	8
44	Interrelation between microstructure and optical properties of erbium-doped nanocrystalline thin films. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 414-419.	2.7	7
45	Room temperature paramagnetism of ZnO:Mn films grown by RF-sputtering. Thin Solid Films, 2010, 518, 4612-4614.	1.8	7
46	Role of counter-ion and helper lipid content in the design and properties of nanocarrier systems: a biophysical study in 2D and 3D lipid assemblies. RSC Advances, 2016, 6, 47730-47740.	3.6	7
47	Amorphous silicon thinâ€film solar cells deposited on flexible substrates using different zinc oxide layers. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1061-1064.	0.8	6
48	Straightforward phase-transfer route to colloidal iron oxide nanoparticles for protein immobilization. RSC Advances, 2015, 5, 47954-47958.	3.6	6
49	Erbium-doped silicon nanocrystals grown by r.f. sputtering method: Competition between oxygen and silicon to get erbium. Optical Materials, 2006, 28, 836-841.	3.6	5
50	Crystal Size and Crystalline Volume Fraction Effects on the Erbium Emission of nc-Si:Er Grown by r.f. Sputtering. Journal of Nanoscience and Nanotechnology, 2010, 10, 2663-2668.	0.9	5
51	Effect of grain size and hydrogen passivation on the electrical properties of nanocrystalline silicon films. International Journal of Materials and Product Technology, 2010, 39, 195.	0.2	5
52	Laser patterning of amorphous silicon thin films deposited on flexible and rigid substrates. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1717-1727.	1.8	5
53	Effect of the Soldering Atmosphere on the Wettability Between Sn4.0Ag0.5Cu (in wt.%) Lead-Free Solder Paste and Various Substrates. Journal of Materials Engineering and Performance, 2018, 27, 5011-5017.	2.5	5
54	Spectroscopic ellipsometry study of the layer structure and impurity content in Er-doped nanocrystalline silicon thin films. Physica B: Condensed Matter, 2001, 308-310, 374-377.	2.7	4

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55	The visible and near IR photoluminescent response of nc-Si:Er thin films produced by rf sputtering. Nanotechnology, 2004, 15, 802-806.	2.6	4
56	The influence of electric field on the microstructure of nc-Si:H films produced by RF magnetron sputtering. Vacuum, 2008, 82, 1433-1436.	3.5	4
57	Dielectric spectroscopy of melt-extruded polypropylene and as-grown carbon nanofiber composites. European Physical Journal E, 2021, 44, 73.	1.6	4
58	Optical modulation spectroscopy of hydrogenated microcrystalline silicon. Thin Solid Films, 1997, 296, 118-121.	1.8	3
59	Structural characterization of μc-Si:H films produced by R.F. magnetron sputtering. Microelectronic Engineering, 1998, 43-44, 627-634.	2.4	3
60	Photoluminescence of erbium doped microcrystalline silicon thin films produced by reactive magnetron sputtering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 81, 32-35.	3.5	3
61	Effect of surface plasmon resonance in TiO ₂ /Au thin films on the fluorescence of self-assembled CdTe QDs structure. Journal of Physics: Conference Series, 2015, 605, 012025.	0.4	3
62	Role of sublimation kinetics of ammonia borane in chemical vapor deposition of uniform, large-area hexagonal boron nitride. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	3
63	Photoluminescence and structure properties from μc-Si:H and μc-Si:H-PS samples. Thin Solid Films, 1997, 296, 126-128.	1.8	2
64	The role of microstructure in luminescent properties of Er-doped nanocrystalline Si thin films. Physics of the Solid State, 2004, 46, 113-117.	0.6	2
65	Study of the oxygen role in the photoluminescence of erbium doped nanocrystalline silicon embedded in a silicon amorphous matrix. Journal of Non-Crystalline Solids, 2006, 352, 1148-1151.	3.1	2
66	Photoluminescence of nc-Si:Er thin films obtained by physical and chemical vapour deposition techniques: The effects of microstructure and chemical composition. Thin Solid Films, 2009, 517, 5808-5812.	1.8	2
67	ZnO Thin Films Implanted with Al, Sb and P: Optical, Structural and Electrical Characterization. Journal of Nanoscience and Nanotechnology, 2009, 9, 3574-3577.	0.9	2
68	Erbium-doped nanocrystalline silicon thin films produced by RF sputtering - annealing effect on the Er emission. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, NA-NA.	0.8	2
69	Segregation of Te at the back contact in electrochemically deposited CdTe thin film solar cells. Journal of Crystal Growth, 2011, 320, 13-17.	1.5	2
70	Confronting Vegard's rule in Ge _{1â^'x} Sn _x epilayers: from fundamentals to the effect of defects. Journal Physics D: Applied Physics, 2022, 55, 295301.	2.8	2
71	Influence of crystals distribution on the photoluminescence properties of nanocrystalline silicon thin films. Microelectronics Journal, 2003, 34, 375-378.	2.0	1
72	Electron confinement in nanocrystals embedded in random media: Andersen localization effects. AIP Conference Proceedings, 2007, , .	0.4	1

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#	Article	IF	CITATIONS
73	Chemical Vapour Deposition of Hexagonal Boron Nitride for Two Dimensional Electronics. U Porto Journal of Engineering, 2017, 3, 27-34.	0.4	1
74	Size Dependence Of The Optical Gap In Silicon Nanocrystals Embedded Into a-Si:H Matrix. AIP Conference Proceedings, 2005, , .	0.4	0
75	Visible and infrared photoluminescence from erbium-doped silicon nanocrystals produced by rf sputtering. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1769-1774.	1.8	0
76	Structural and photoluminescence studies of erbiumâ€implanted nanocrystalline silicon thin films. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2161-2165.	1.8	0
77	ZnO:Cu Thin Films and p-n Homojunctions Grown by Electrochemical Deposition. AIP Conference Proceedings, 2011, , .	0.4	0
78	Faraday effect in ZnO:Mn thin films. AIP Conference Proceedings, 2011, , .	0.4	0
79	Piezoresistor Sensor Fabrication by Direct Laser Writing on Hydrogenated Amorphous Silicon. Materials Research Society Symposia Proceedings, 2014, 1594, 1.	0.1	Ο