Theophillus F Muller

List of Publications by Year
in descending order

40	520	623734	677142
papers	citations	14 h-index	22 g-index

40	40	40	682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal stability of electron beam evaporated AlxOy/Pt/AlxOy multilayer solar absorber coatings. Solar Energy Materials and Solar Cells, 2014, 120, 473-480.	6.2	53
2	Microstructural, optical properties and thermal stability of MgO/Zr/MgO multilayered selective solar absorber coatings. Solar Energy, 2015, 111, 357-363.	6.1	52
3	Characteristics of the mechanical milling on the room temperature ferromagnetism and sensing properties of TiO2 nanoparticles. Applied Surface Science, 2015, 331, 362-372.	6.1	42
4	Comparative study: the effect of annealing conditions on the properties of P3HT:PCBM blends. Journal of Materials Science, 2013, 48, 1763-1778.	3.7	32
5	Air-Stable Hybrid Perovskite Solar Cell by Sequential Vapor Deposition in a Single Reactor. ACS Applied Energy Materials, 2020, 3, 2350-2359.	5.1	30
6	Femtosecond laser surface structuring and oxidation of chromium thin coatings: Black chromium. Applied Surface Science, 2014, 321, 560-565.	6.1	28
7	Microstructure and phase transformation on milled and unmilled Ti induced by water quenching. Materials Letters, 2014, 132, 157-161.	2.6	27
8	Morphology and structural development of reduced anatase-TiO2 by pure Ti powder upon annealing and nitridation: Synthesis of TiOx and TiOxNy powders. Materials Characterization, 2015, 100, 41-49.	4.4	26
9	Structural and optical properties of AlxOy/Pt/AlxOy multilayer absorber. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1194-1199.	3.5	25
10	Characterization of silicon nitride thin films deposited by hot-wire CVD at low gas flow rates. Applied Surface Science, 2013, 285, 440-449.	6.1	23
11	Formation of the metastable FCC phase by ball milling and annealing of titaniumâ€“stearic acid powder. Advanced Powder Technology, 2015, 26, 632-639.	4.1	23
12	Extension of the lifetime of tantalum filaments in the hot-wire (Cat) Chemical Vapor Deposition process. Thin Solid Films, 2008, 516, 822-825.	1.8	21
13	Thermally Induced Nano-Structural and Optical Changes of nc-Si:H Deposited by Hot-Wire CVD. Nanoscale Research Letters, 2009, 4, 307-312.	5.7	18
14	Improved stability of intrinsic nanocrystalline Si thin films deposited by hot-wire chemical vapour deposition technique. Thin Solid Films, 2007, 515, 8040-8044.	1.8	16
15	Mixed-halide perovskites solar cells through PbICl and PbCl2 precursor films by sequential chemical vapor deposition. Solar Energy, 2021, 215, 179-188.	6.1	14
16	The influence of ZnO nanostructures on the structure, optical and photovoltaic properties of organic materials. Thin Solid Films, 2014, 555, 100-106.	1.8	11
17	Filament poisoning at typical carbon nanotube deposition conditions by hot-filament CVD. Journal of Materials Science, 2009, 44, 2610-2616.	3.7	10
18	Crystallization of HWCVD amorphous silicon thin films at elevated temperatures. Thin Solid Films, 2006, 501, 98-101.	1.8	9

#	Article	IF	Citations
19	Growth kinetics of nc-Si:H deposited at 200Â°C by hot-wire chemical vapour deposition. Thin Solid Films, 2011, 519, 4437-4441.	1.8	7
20	Production of titaniumâ€“tin alloy powder by ball milling: Formation of titaniumâ€“tin oxynitride composite powder produced by annealing in air. Journal of Alloys and Compounds, 2015, 622, 824-830.	5.5	7
21	Optical characterisation of a-Si:H and nc-Si:H thin films using the transmission spectrum alone. Journal of Materials Science: Materials in Electronics, 2007, 18, 225-229.	2.2	6
22	Investigation of the growth and local stoichiometric point group symmetry of titania nanotubes during potentiostatic anodization of titanium in phosphate electrolytes. Journal of Physics and Chemistry of Solids, 2015, 85, 278-286.	4.0	6
23	Effect of additional electron acceptor in hybrid P3HT:PCBM:ZnO spinâ€coated films for photovoltaic application. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1915-1921.	1.8	5
24	Formation of face-centered cubic and tetragonal titanium oxynitride by low temperature annealing of ball milled titanium powder in air. Advanced Powder Technology, 2015, 26, 169-174.	4.1	4
25	Thermal annealing of protocrystalline a-Si:H. Thin Solid Films, 2011, 519, 4462-4465.	1.8	3
26	Structural and optical characterization of mechanically milled Mg-TiO2 and nitrided Mg-TiO -N nanostructures: Possible candidates for gas sensing application. Applied Surface Science, 2016, 360, 1047-1058.	6.1	3
27	Adsorption of phosphoric acid anions on platinum (111). Adsorption, 2017, 23, 971-981.	3.0	3
28	Controlled Deposition of Lead Iodide and Lead Chloride Thin Films by Low-Pressure Chemical Vapor Deposition. Coatings, 2020, 10, 1208.	2.6	3
29	Thermal stability of the optical band gap and structural order in hot-wire-deposited amorphous silicon. Journal of Materials Science, 2009, 44, 6333-6337.	3.7	2
30	Employing the effective medium approximation to model the optical properties of crystallized a-Si:H obtained by MIC. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, NA-NA.	0.8	2
31	Structureâ€“property analysis of the Mgâ€“TiO2 and Mgâ€“Snâ€“TiO2 composites intended for biomedical application. Materials Letters, 2015, 161, 328-331.	2.6	2
32	Effect of HTL thickness on air processed CVD perovskite solar cells. Materials Today: Proceedings, 2021, 36, 303-308.	1.8	2
33	Dual Catalytic Purpose of the Tungsten Filament During the Synthesis of Single-Helix Carbon Microcoils by Hot-Wire CVD. Journal of Nanoscience and Nanotechnology, 2009, 9, 5870-5873.	0.9	1
34	Amorphous and nc-Si:H Intrinsic Thin Films for Solar Cells Applications. Materials Science Forum, 0, 657, 191-207.	0.3	1
35	Spectroscopy and structural properties of amorphous and nanocrystalline silicon carbide thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2661-2664.	0.8	1
36	Chemical, electronic and nanostructural properties of nanocrystalline silicon synthesised by hotâ€wire CVD. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1705-1709.	1.8	1

#	Article	IF	Citations
37	Oxidation Reduction in Nanocrystalline Silicon Grown by Hydrogen-Profiling Technique. Journal of Nano Research, 2016, 41, 9-17.	0.8	1
38	Investigation of isochronal annealing on the optical properties of HWCVD amorphous silicon nitride deposited at low temperatures and low gas flow rates. Journal of Physics: Conference Series, 2015, 619, 012014.	0.4	0
39	Depth-dependent crystallinity of nano-crystalline silicon induced by step-wise variation of hydrogen dilution during hot-wire CVD. Journal of Physics: Conference Series, 2015, 619, 012002.	0.4	0
40	Degradation of a tantalum filament during the hot-wire CVD of silicon nitride thin films. Thin Solid Films, 2015, 575, 42-46.	1.8	0