

# William Chiappim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8433245/publications.pdf>

Version: 2024-02-01

28  
papers

362  
citations

840585

11  
h-index

794469

19  
g-index

28  
all docs

28  
docs citations

28  
times ranked

439  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, morphological, and optical properties of TiO <sub>2</sub> thin films grown by atomic layer deposition on fluorine doped tin oxide conductive glass. Vacuum, 2016, 123, 91-102.	1.6	45
2	Effect of Process Temperature and Reaction Cycle Number on Atomic Layer Deposition of TiO <sub>2</sub> Thin Films Using TiCl <sub>4</sub> and H <sub>2</sub> O Precursors: Correlation Between Material Properties and Process Environment. Brazilian Journal of Physics, 2016, 46, 56-69.	0.7	36
3	Relationships among growth mechanism, structure and morphology of PEALD TiO <sub>2</sub> films: the influence of O <sub>2</sub> plasma power, precursor chemistry and plasma exposure mode. Nanotechnology, 2016, 27, 305701.	1.3	35
4	Influence of the Al <sub>2</sub> O <sub>3</sub> partial-monolayer number on the crystallization mechanism of TiO <sub>2</sub> in ALD TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> nanolaminates and its impact on the material properties. Journal Physics D: Applied Physics, 2016, 49, 375301.	1.3	31
5	Front passivation of Cu(In,Ga)Se <sub>2</sub> solar cells using Al <sub>2</sub> O <sub>3</sub> : Culprits and benefits. Applied Materials Today, 2020, 21, 100867.	2.3	28
6	Antimicrobial Effect of Plasma-Activated Tap Water on Staphylococcus aureus, Escherichia coli, and Candida albicans. Water (Switzerland), 2021, 13, 1480.	1.2	24
7	Applications of Plasma-Activated Water in Dentistry: A Review. International Journal of Molecular Sciences, 2022, 23, 4131.	1.8	16
8	Structure of Hydrophobic Ambient-Pressure-Dried Aerogels Prepared by Sonohydrolysis of Tetraethoxysilane with Additions of N,N-Dimethylformamide. Langmuir, 2014, 30, 1151-1159.	1.6	15
9	Effect of substrate type on structure of TiO <sub>2</sub> thin film deposited by atomic layer deposition technique. Journal of Integrated Circuits and Systems, 2015, 10, 38-42.	0.3	15
10	Atomic layer deposition of TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> thin films for the electrochemical study of corrosion protection in aluminum alloy cans used in beverage. Materials Research Express, 2020, 7, 076408.	0.8	13
11	MOS Capacitance Measurements for PEALD TiO <sub>2</sub> Dielectric Films Grown under Different Conditions and the Impact of Al <sub>2</sub> O <sub>3</sub> Partial-Monolayer Insertion. Nanomaterials, 2020, 10, 338.	1.9	13
12	The status and perspectives of nanostructured materials and fabrication processes for wearable piezoresistive sensors. Microsystem Technologies, 2022, 28, 1561-1580.	1.2	12
13	An Experimental and Theoretical Study of the Impact of the Precursor Pulse Time on the Growth Per Cycle and Crystallinity Quality of TiO <sub>2</sub> Thin Films Grown by ALD and PEALD Technique. Frontiers in Mechanical Engineering, 2020, 6, .	0.8	11
14	Microwave Synthesis of Silver Sulfide and Silver Nanoparticles: Light and Time Influence. ACS Omega, 2020, 5, 12877-12881.	1.6	11
15	Physicochemical Studies on the Surface of Polyamide 6.6 Fabrics Functionalized by DBD Plasmas Operated at Atmospheric and Sub-Atmospheric Pressures. Polymers, 2020, 12, 2128.	2.0	9
16	Effect of Plasma-Enhanced Atomic Layer Deposition on Oxygen Overabundance and Its Influence on the Morphological, Optical, Structural, and Mechanical Properties of Al-Doped TiO <sub>2</sub> Coating. Micromachines, 2021, 12, 588.	1.4	9
17	Nebulized plasma-activated water has an effective antimicrobial effect on medically relevant microbial species and maintains its physicochemical properties in tube lengths from 0.1 up to 1.0 m. Plasma Processes and Polymers, 2021, 18, 2100010.	1.6	9
18	Exploring the Properties and Fuel Cell Applications of Ultrathin Atomic Layer Deposited Metal Oxide Films. , 2018, , 83-114.		8

#	ARTICLE	IF	CITATIONS
19	Fabrication and Electrical Characterization of MOS Solar Cells for Energy Harvesting. , 2018, , .		5
20	Structure and aggregation kinetics of vinyltriethoxysilane-derived organic/silica hybrids. Journal of Applied Crystallography, 2010, 43, 1005-1011.	1.9	4
21	Dynamic Scaling and Growth Kinetics of 3-Glycidoxypropyltrimethoxysilane-Derived Organic/Silica Hybrids. Macromolecules, 2011, 44, 6849-6855.	2.2	4
22	MOS solar cells for indoor LED energy harvesting: influence of the grating geometry and the thickness of the gate dielectrics. , 2019, , .		2
23	Novel dielectrics compounds grown by atomic layer deposition as sustainable materials for chalcogenides thin-films photovoltaics technologies. , 2021, , 71-100.		2
24	Synthesis of anatase and rutile phases of TiO <sub>2</sub> by atomic layer deposition: Substrate effect. , 2014, , .		1
25	On the influence of conductor, semiconductor and insulating substrate on the structure of atomic layer deposited titanium dioxide thin films. , 2018, , .		1
26	Bifacial Tandem Solar Panels with MOS Cells on the Backside for Applications in Deserts. , 2019, , .		1
27	Atomic layer deposition of materials for solar water splitting. , 2021, , 363-380.		1
28	Antimicrobial properties of SiC nanostructures and coatings. , 2022, , 309-335.		1