

# Cristian Mocuta

## List of Publications by Year in descending order

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37  
papers

519  
citations

687363

13  
h-index

713466

21  
g-index

38  
all docs

38  
docs citations

38  
times ranked

660  
citing authors

#	ARTICLE	IF	CITATIONS
1	The CirPAD, a circular 1.4-µm hybrid pixel detector dedicated to X-ray diffraction measurements at Synchrotron SOLEIL. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 180-193.	2.4	9
2	Time-resolved piezoelectric response in relaxor ferroelectric (Pb <sub>0.88</sub> La <sub>0.12</sub> )(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , 2022, 131, 064102.	2.5	1
3	Crystallization of Ge-Rich GeSbTe Alloys: The Riddle Is Solved. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2682-2688.	4.3	11
4	Role of layer order on the equi-biaxial behavior of Al/Mo bilayers. <i>Scripta Materialia</i> , 2021, 194, 113656.	5.2	14
5	Combinatorial Screening of Cuprate Superconductors by Drop-On-Demand Inkjet Printing. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9101-9112.	8.0	13
6	Ion beam modification of the Ni-Si solid-phase reaction: The influence of substrate damage and nitrogen impurities introduced by ion implantation. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 015307.	2.8	6
7	Ferroelectric nanodomains in epitaxial GeTe thin films. <i>Physical Review Materials</i> , 2021, 5, .	2.4	8
8	Exceptional preservation requires fast biodegradation: thylacocephalan specimens from La Voulte-sur-Rhône (Callovian, Jurassic, France). <i>Palaeontology</i> , 2020, 63, 395-413.	2.2	13
9	Mn <sub>0.7</sub> Fe <sub>2.3</sub> O <sub>4</sub> Nanoplatelets Embedded in BaTiO <sub>3</sub> Perovskite Thin Films for Multifunctional Composite Barriers. <i>ACS Applied Nano Materials</i> , 2020, 3, 327-341.	5.0	3
10	Lattice Strain Evolutions in Ni-W Alloys during a Tensile Test Combined with Synchrotron X-ray Diffraction. <i>Materials</i> , 2020, 13, 4027.	2.9	3
11	Visualizing mineralization processes and fossil anatomy using synchronous synchrotron X-ray fluorescence and X-ray diffraction mapping. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200216.	3.4	15
12	Characterizing surface states in hematite nanorod photoanodes, both beneficial and detrimental to solar water splitting efficiency. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20513-20530.	10.3	15
13	Piezoelectric Properties of Pb <sub>1-x</sub> La <sub>x</sub> (Zr <sub>0.52</sub> Ti <sub>0.48</sub> ) <sub>1-x/4</sub> O <sub>3</sub> Thin Films Studied by In Situ X-ray Diffraction. <i>Materials</i> , 2020, 13, 3338.	2.9	3
14	Formation and preferential orientation of Au-free Al/Ti-based ohmic contacts on different hexagonal nitride-based heterostructures. <i>Journal of Applied Physics</i> , 2020, 127, 215701.	2.5	4
15	Relevance of the Formation of Intermediate Non-Equilibrium Phases in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> Film Growth by Transient Liquid-Assisted Growth. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15574-15584.	3.1	9
16	Exploring the shear strain contribution to the uniaxial magnetic anisotropy of (Ga,Mn)As. <i>Journal of Applied Physics</i> , 2020, 127, 093901.	2.5	1
17	Stress Buildup Upon Crystallization of GeTe Thin Films: Curvature Measurements and Modelling. <i>Nanomaterials</i> , 2020, 10, 1247.	4.1	2
18	Growth mechanism of highly oriented layered Sb <sub>2</sub> Te <sub>3</sub> thin films on various materials. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 154003.	2.8	12

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19	Ultrafast transient liquid assisted growth of high current density superconducting films. <i>Nature Communications</i> , 2020, 11, 344.	12.8	39
20	New insights into thermomechanical behavior of GeTe thin films during crystallization. <i>Acta Materialia</i> , 2020, 191, 60-69.	7.9	18
21	Fracture behavior of Ni-W alloy probed by in situ synchrotron X-ray diffraction. <i>Materials Letters</i> , 2019, 239, 116-119.	2.6	8
22	Microsecond time-resolved X-ray diffraction for the investigation of fatigue behavior during ultrasonic fatigue loading. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1660-1670.	2.4	6
23	Fast X-ray reflectivity measurements using an X-ray pixel area detector at the DiffAbs beamline, Synchrotron SOLEIL. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 204-213.	2.4	8
24	In situ monitoring of stress change in GeTe thin films during thermal annealing and crystallization. <i>Micro and Nano Engineering</i> , 2018, 1, 63-67.	2.9	10
25	Impact of Stoichiometry on the Structure of van der Waals Layered GeTe/Sb <sub>2</sub> Te <sub>3</sub> Superlattices Used in Interfacial Phase-Change Memory (iPCM) Devices. <i>Small</i> , 2018, 14, e1704514.	10.0	42
26	Cross-Correlation between Strain, Ferroelectricity, and Ferromagnetism in Epitaxial Multiferroic CoFe <sub>2</sub> O <sub>4</sub> /BaTiO <sub>3</sub> Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28003-28014.	8.0	22
27	Full-section otolith microtexture imaged by local-probe X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2018, 51, 1182-1196.	4.5	5
28	The influence of alloying on the phase formation sequence of ultra-thin nickel silicide films and on the inheritance of texture. <i>Journal of Applied Physics</i> , 2018, 123, 185302.	2.5	14
29	Show me your yttrium, and I will tell you who you are: implications for fossil imaging. <i>Palaeontology</i> , 2018, 61, 981-990.	2.2	16
30	Piezoelectric response and electrical properties of Pb(Zr <sub>1-x</sub> Ti <sub>x</sub> )O <sub>3</sub> thin films: The role of imprint and composition. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	15
31	In situ X-ray diffraction studies on the piezoelectric response of PZT thin films. <i>Thin Solid Films</i> , 2016, 603, 29-33.	1.8	13
32	Cerium Anomaly at Microscale in Fossils. <i>Analytical Chemistry</i> , 2015, 87, 8827-8836.	6.5	23
33	Trace Elemental Imaging of Rare Earth Elements Discriminates Tissues at Microscale in Flat Fossils. <i>PLoS ONE</i> , 2014, 9, e86946.	2.5	39
34	Fast pole figure acquisition using area detectors at the DiffAbs beamline at Synchrotron SOLEIL. <i>Journal of Applied Crystallography</i> , 2013, 46, 1842-1853.	4.5	47
35	Surface composition of BaTiO <sub>3</sub> /SrTiO <sub>3</sub> (001) films grown by atomic oxygen plasma assisted molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	25
36	Pseudoepitaxial transrotational structures in 14-nm-thick NiSi layers on [001] silicon. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 486-491.	1.8	25

#	ARTICLE	IF	CITATIONS
37	Properties of self-oxidized single crystalline perovskite N:BaTiO <sub>3</sub> oxynitrides epitaxial thin films. Materials Advances, 0, , .	5.4	0