

Cristian Mocuta

List of Publications by Year in descending order

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37
papers

519
citations

687363

13
h-index

713466

21
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38
all docs

38
docs citations

38
times ranked

660
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Impact of Stoichiometry on the Structure of van der Waals Layered GeTe/Sb ₂ Te ₃ Superlattices Used in Interfacial Phase-Change Memory (iPCM) Devices. <i>Small</i> , 2018, 14, e1704514.	10.0	42
3	Trace Elemental Imaging of Rare Earth Elements Discriminates Tissues at Microscale in Flat Fossils. <i>PLoS ONE</i> , 2014, 9, e86946.	2.5	39
4	Ultrafast transient liquid assisted growth of high current density superconducting films. <i>Nature Communications</i> , 2020, 11, 344.	12.8	39
5	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
6	Surface composition of BaTiO ₃ /SrTiO ₃ (001) films grown by atomic oxygen plasma assisted molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	25
7	Cerium Anomaly at Microscale in Fossils. <i>Analytical Chemistry</i> , 2015, 87, 8827-8836.	6.5	23
8	Cross-Correlation between Strain, Ferroelectricity, and Ferromagnetism in Epitaxial Multiferroic CoFe ₂ O ₄ /BaTiO ₃ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28003-28014.	8.0	22
9	New insights into thermomechanical behavior of GeTe thin films during crystallization. <i>Acta Materialia</i> , 2020, 191, 60-69.	7.9	18
10	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
11	Piezoelectric response and electrical properties of Pb(Zr _{1-x} Ti _x)O ₃ thin films: The role of imprint and composition. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	15
12	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
13	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
14	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
15	Role of layer order on the equi-biaxial behavior of Al/Mo bilayers. <i>Scripta Materialia</i> , 2021, 194, 113656.	5.2	14
16	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
17	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
18	Combinatorial Screening of Cuprate Superconductors by Drop-On-Demand Inkjet Printing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9101-9112.	8.0	13

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19	Growth mechanism of highly oriented layered Sb ₂ Te ₃ thin films on various materials. Journal Physics D: Applied Physics, 2020, 53, 154003.	2.8	12
20	Crystallization of Ge-Rich GeSbTe Alloys: The Riddle Is Solved. ACS Applied Electronic Materials, 2022, 4, 2682-2688.	4.3	11
21	In situ monitoring of stress change in GeTe thin films during thermal annealing and crystallization. Micro and Nano Engineering, 2018, 1, 63-67.	2.9	10
22	Relevance of the Formation of Intermediate Non-Equilibrium Phases in YBa ₂ Cu ₃ O ₇ Film Growth by Transient Liquid-Assisted Growth. Journal of Physical Chemistry C, 2020, 124, 15574-15584.	3.1	9
23	The CirPAD, a circular 1.4 M hybrid pixel detector dedicated to X-ray diffraction measurements at Synchrotron SOLEIL. Journal of Synchrotron Radiation, 2022, 29, 180-193.	2.4	9
24	Fast X-ray reflectivity measurements using an X-ray pixel area detector at the DiffAbs beamline, Synchrotron SOLEIL. Journal of Synchrotron Radiation, 2018, 25, 204-213.	2.4	8
25	Fracture behavior of Ni-W alloy probed by in situ synchrotron X-ray diffraction. Materials Letters, 2019, 239, 116-119.	2.6	8
26	Ferroelectric nanodomains in epitaxial GeTe thin films. Physical Review Materials, 2021, 5, .	2.4	8
27	Ion beam modification of the Ni-Si solid-phase reaction: The influence of substrate damage and nitrogen impurities introduced by ion implantation. Journal Physics D: Applied Physics, 2021, 54, 015307.	2.8	6
28	Microsecond time-resolved X-ray diffraction for the investigation of fatigue behavior during ultrasonic fatigue loading. Journal of Synchrotron Radiation, 2019, 26, 1660-1670.	2.4	6
29	Full-section otolith microtexture imaged by local-probe X-ray diffraction. Journal of Applied Crystallography, 2018, 51, 1182-1196.	4.5	5
30	Formation and preferential orientation of Au-free Al/Ti-based ohmic contacts on different hexagonal nitride-based heterostructures. Journal of Applied Physics, 2020, 127, 215701.	2.5	4
31	Mn _{0.7} Fe _{2.3} O ₄ Nanoplatelets Embedded in BaTiO ₃ Perovskite Thin Films for Multifunctional Composite Barriers. ACS Applied Nano Materials, 2020, 3, 327-341.	5.0	3
32	Lattice Strain Evolutions in Ni-W Alloys during a Tensile Test Combined with Synchrotron X-ray Diffraction. Materials, 2020, 13, 4027.	2.9	3
33	Piezoelectric Properties of Pb _{1-x} La _x (Zr _{0.52} Ti _{0.48}) _{1-x/4} O ₃ Thin Films Studied by In Situ X-ray Diffraction. Materials, 2020, 13, 3338.	2.9	3
34	Stress Buildup Upon Crystallization of GeTe Thin Films: Curvature Measurements and Modelling. Nanomaterials, 2020, 10, 1247.	4.1	2
35	Exploring the shear strain contribution to the uniaxial magnetic anisotropy of (Ga,Mn)As. Journal of Applied Physics, 2020, 127, 093901.	2.5	1
36	Time-resolved piezoelectric response in relaxor ferroelectric (Pb _{0.88} La _{0.12})(Zr _{0.52} Ti _{0.48})O ₃ thin films. Journal of Applied Physics, 2022, 131, 064102.	2.5	1

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