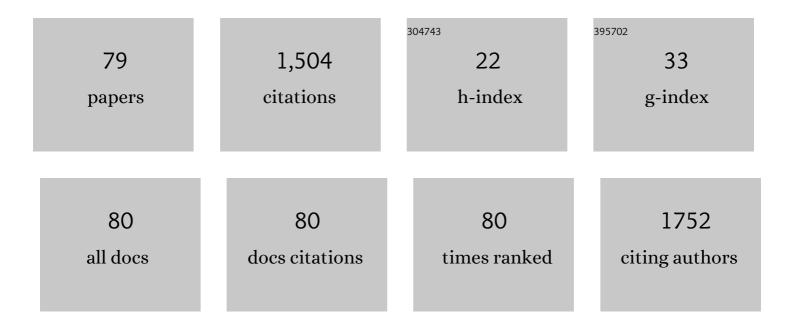
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characterization and modelling of the ion-irradiation induced disorder in 6H-SiC and 3C-SiC single crystals. Journal Physics D: Applied Physics, 2010, 43, 455408.	2.8	86
2	Effect of tensile and compressive strains on the transport properties of SmNiO3 layers epitaxially grown on (001) SrTiO3 and LaAlO3 substrates. Applied Physics Letters, 2007, 91, .	3.3	69
3	Optical properties of an epitaxial Na0.5Bi0.5TiO3 thin film grown by laser ablation: Experimental approach and density functional theory calculations. Journal of Applied Physics, 2010, 107, .	2.5	61
4	A high-resolution X-ray diffractometer for the study of imperfect materials. Journal of Applied Crystallography, 2002, 35, 606-614.	4.5	56
5	Lead-free Na0.5Bi0.5TiO3 ferroelectric thin films grown by Pulsed Laser Deposition on epitaxial platinum bottom electrodes. Thin Solid Films, 2008, 517, 592-597.	1.8	48
6	Advanced techniques for characterization of ion beam modified materials. Current Opinion in Solid State and Materials Science, 2015, 19, 19-28.	11.5	48
7	Electrical properties of (110) epitaxial lead-free ferroelectric Na0.5Bi0.5TiO3 thin films grown by pulsed laser deposition: Macroscopic and nanoscale data. Journal of Applied Physics, 2012, 111, .	2.5	46
8	Phenomenological analysis of heterogeneous strain fields in epitaxial thin films using x-ray scattering. Journal Physics D: Applied Physics, 2005, 38, 3907-3920.	2.8	44
9	Strain-profile determination in ion-implanted single crystals using generalized simulated annealing. Journal of Applied Crystallography, 2010, 43, 1046-1052.	4.5	42
10	Prospects for 3C-SiC bulk crystal growth. Journal of Crystal Growth, 2008, 310, 976-981.	1.5	38
11	Comprehensive study of the effect of the irradiation temperature on the behavior of cubic zirconia. Journal of Applied Physics, 2014, 115, .	2.5	35
12	Strain and stress build-up in He-implanted UO2 single crystals: an X-ray diffraction study. Journal of Materials Science, 2011, 46, 4683-4689.	3.7	34
13	X-ray study of antiphase domains and their stability in MBE grown GaP on Si. Journal of Crystal Growth, 2011, 323, 409-412.	1.5	34
14	<i>RaDMaX</i> : a graphical program for the determination of strain and damage profiles in irradiated crystals. Journal of Applied Crystallography, 2016, 49, 311-316.	4.5	29
15	A new method for the determination of strain profiles in epitaxic thin films using X-ray diffraction. Journal of Applied Crystallography, 2003, 36, 1424-1431.	4.5	28
16	From amorphous phase separations to nanostructured materials in sol–gel derived ZrO2:Eu3+/SiO2 and ZnO/SiO2 composites. Journal of Non-Crystalline Solids, 2006, 352, 2152-2158.	3.1	28
17	The amorphization of 3C-SiC irradiated at moderately elevated temperatures as revealed by X-ray diffraction. Acta Materialia, 2017, 140, 250-257.	7.9	27
18	Size distribution of black spot defects and their contribution to swelling in irradiated SiC. Journal of Nuclear Materials, 2016, 476, 132-139.	2.7	25

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19	Statistical Nature of Atomic Disorder in Irradiated Crystals. Physical Review Letters, 2016, 116, 245501.	7.8	25
20	X-Ray diffraction line broadening by stacking faults in SrBi2Nb2O9/SrTiO3 epitaxial thin films. Thin Solid Films, 2001, 391, 42-46.	1.8	23
21	Miscut angles measurement and precise sample positioning with a four circle diffractometer. Applied Surface Science, 2001, 180, 322-327.	6.1	22
22	Investigation of strain relaxation mechanisms and transport properties in epitaxial SmNiO3 films. Journal of Applied Physics, 2008, 103, 123501.	2.5	22
23	The role of strain-induced structural changes in the metal–insulator transition in epitaxial SmNiO ₃ films. Journal of Physics Condensed Matter, 2008, 20, 145216.	1.8	21
24	Microstructural study of SnO2 thin layers deposited on sapphire by sol–gel dip-coating. Thin Solid Films, 2009, 518, 1-5.	1.8	21
25	Oxygen incorporation effects in annealed epitaxial La(1â^'x)SrxMnO3 thin films. Journal of Applied Physics, 2011, 109, 123913.	2.5	21
26	Double-Position-Boundaries Free 3C-SiC Epitaxial Layers Grown on On-Axis 4H-SiC. ECS Journal of Solid State Science and Technology, 2014, 3, P75-P81.	1.8	21
27	Growth of LiNbO3 thin films on sapphire by pulsed-laser deposition for electro-optic modulators. Applied Surface Science, 2007, 253, 8263-8267.	6.1	20
28	Polarization Rotation in Ferroelectric Tricolor PbTiO ₃ /SrTiO ₃ /PbZr _{0.2} Ti _{0.8} O ₃ Superlattices. ACS Applied Materials & Interfaces, 2015, 7, 19906-19913.	8.0	20
29	Combined strain and composition-induced effects in the metal-insulator transition of epitaxial VO2 films. Applied Physics Letters, 2017, 111, .	3.3	20
30	Lattice strain in irradiated materials unveils a prevalent defect evolution mechanism. Physical Review Materials, 2018, 2, .	2.4	20
31	Microstructural analysis in epitaxial zirconia layers. Applied Surface Science, 2002, 188, 80-84.	6.1	18
32	Instrumental aspects in X-ray diffraction on polycrystalline materials. Powder Diffraction, 2005, 20, 294-305.	0.2	18
33	The surface roughness effect on electrochemical properties of La0.5Sr0.5Fe0.7Ga0.3O3-δ perovskite for oxygen transport membranes. Journal of Membrane Science, 2019, 588, 117199.	8.2	17
34	Ceramic nanocomposites obtained by sol–gel coating of submicron powders. Acta Materialia, 2001, 49, 811-816.	7.9	16
35	On the use of one-dimensional position sensitive detector for x-ray diffraction reciprocal space mapping: Data quality and limitations. Review of Scientific Instruments, 2005, 76, 063912.	1.3	16
36	Synthesis of tin oxide nanosized crystals embedded in silica matrix through sol–gel process using alkoxide precursors. Journal of Non-Crystalline Solids, 2009, 355, 951-959.	3.1	16

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37	Two-dimensional versus three-dimensional post-deposition grain growth in epitaxial oxide thin films. Thin Solid Films, 2007, 515, 7080-7085.	1.8	15
38	Role of nanostructure on the optical waveguiding properties of epitaxial LiNbO ₃ films. Journal Physics D: Applied Physics, 2009, 42, 145403.	2.8	15
39	Epitaxial stabilization of SmNiO ₃ films on (0 0 1) SrTiO ₃ substrates. Journal Physics D: Applied Physics, 2007, 40, 4872-4876.	2.8	14
40	Defect structure of pulsed laser deposited LiNbO3/Al2O3 layers determined by X-ray diffraction reciprocal space mapping. Thin Solid Films, 2003, 429, 55-62.	1.8	13
41	The 3C-6H polytypic transition in SiC as revealed by diffuse x-ray scattering. Applied Physics Letters, 2009, 94, 201904.	3.3	13
42	Nanostructured sapphire vicinal surfaces as templates for the growth of self-organized oxide nanostructures. Applied Surface Science, 2009, 256, 924-928.	6.1	13
43	Depth-dependent phase change in Gd2O3 epitaxial layers under ion irradiation. Applied Physics Letters, 2015, 107, .	3.3	12
44	Analysis of strain and disordering kinetics based on combined RBS-channeling and X-ray diffraction atomic-scale modelling. Acta Materialia, 2020, 201, 63-71.	7.9	12
45	Control of the morphology of oxide nano-islands through the substrate miscut angle. Progress in Solid State Chemistry, 2005, 33, 327-332.	7.2	11
46	Quantitative analysis of diffuse X-ray scattering in partially transformed 3C-SiC single crystals. Journal of Applied Crystallography, 2010, 43, 867-875.	4.5	11
47	Self-organized ultrathin FePt nanowires produced by glancing-angle ion-beam codeposition on rippled alumina surfaces. Nanoscale, 2015, 7, 1437-1445.	5.6	11
48	Diffuse X-ray scattering from 180° ferroelectric stripe domains: polarization-induced strain, period disorder and wall roughness. Journal of Applied Crystallography, 2016, 49, 845-855.	4.5	11
49	<i>DxTools</i> : processing large data files recorded with the Bruker D8 diffractometer. Journal of Applied Crystallography, 2017, 50, 967-974.	4.5	11
50	Strain engineering 4H-SiC with ion beams. Applied Physics Letters, 2019, 114, .	3.3	11
51	X-Ray diffraction from epitaxial oxide layers grown from sol–gel. Thin Solid Films, 2003, 434, 1-6.	1.8	10
52	Recent advances in high-resolution X-ray diffractometry applied to nanostructured oxide thin films: The case of yttria stabilized zirconia epitaxially grown on sapphire. Applied Surface Science, 2006, 253, 95-105.	6.1	10
53	Diffuse X-ray scattering from ion-irradiated materials: a parallel-computing approach. Journal of Applied Crystallography, 2015, 48, 252-261.	4.5	10
54	Mechanical response of UO2 single crystals submitted to low-energy ion irradiation. Journal of Nuclear Materials, 2015, 467, 505-511.	2.7	10

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55	A new way to prepare tin oxide precursor polymeric gels. Journal of Sol-Gel Science and Technology, 2010, 55, 15-18.	2.4	9
56	Properties of LiNbO3 based heterostructures grown by pulsed-laser deposition for optical waveguiding application. Thin Solid Films, 2010, 518, 4654-4657.	1.8	9
57	Structural and electrical properties of Bi0.5Na0.5 TiO3 based superlattices grown by pulsed laser deposition. Journal of Applied Physics, 2014, 116, .	2.5	9
58	Nacre-like alumina composites based on heteroaggregation. Journal of the European Ceramic Society, 2020, 40, 5773-5778.	5.7	9
59	Planar faults in layered Bi-containing perovskites studied by X-ray diffraction line profile analysis. Journal of Applied Crystallography, 2001, 34, 699-703.	4.5	8
60	Characterization of stacking faults in thick 3C-SiC crystals using high-resolution diffuse X-ray scattering. Journal of Crystal Growth, 2008, 310, 982-987.	1.5	8
61	Strain profiles in thin films: influence of a coherently diffracting substrate and thickness fluctuations. Journal of Applied Crystallography, 2009, 42, 85-92.	4.5	8
62	Implantation of high concentration noble gases in cubic zirconia and silicon carbide: A contrasted radiation tolerance. Journal of Nuclear Materials, 2014, 451, 14-23.	2.7	8
63	How relative defect migration energies drive contrasting temperature-dependent microstructural evolution in irradiated ceramics. Physical Review Materials, 2018, 2, .	2.4	8
64	Influence of thickness on the epitaxial stabilisation of SmNiO3 thin films. Surface and Coatings Technology, 2007, 201, 9021-9024.	4.8	7
65	Strain effect in PbTiO3/PbZr0.2Ti0.8O3 superlattices: From polydomain to monodomain structures. Journal of Applied Physics, 2012, 112, .	2.5	7
66	3C-SiC Heteroepitaxy on Hexagonal SiC Substrates. Materials Science Forum, 2013, 740-742, 257-262.	0.3	7
67	Structural observation of piezoelectric inhomogeneity in a mixed-orientation Na0.5Bi0.5TiO3 perovskite thin film. Applied Physics Letters, 2014, 105, .	3.3	7
68	Ordered misfit dislocations in epitaxial Gd doped CeO 2 thin films deposited on (001)YSZ single crystal substrates. Applied Surface Science, 2018, 433, 668-673.	6.1	7
69	Structural Aspects of the Superionic Transition in AX2 Compounds With the Fluorite Structure. Frontiers in Chemistry, 2021, 9, 723507.	3.6	7
70	Growth and relaxation of (Zr,Y)O2 epitaxial layers analyzed by XRD reciprocal space mapping. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 42-46.	3.5	6
71	Influence of strain relaxation on the structural stabilization of SmNiO3 films epitaxially grown on (001) SrTiO3 substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 32-37.	3.5	6
72	Texture and interface characterization of iridium thin films grown on MgO substrates with different orientations. Journal of Materials Science, 2020, 55, 1753-1764.	3.7	6

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73	Symmetry degeneration and room temperature ferroelectricity in ion-irradiated SrTiO ₃ . Journal of Physics Condensed Matter, 2020, 32, 355405.	1.8	6
74	Planar faults in Aurivillius compounds: An X-ray diffraction study. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 615-632.	0.6	5
75	Strain relaxation in He implanted UO2 polycrystals under thermal treatment: An in situ XRD study. Journal of Nuclear Materials, 2016, 476, 63-76.	2.7	5
76	High-performance Python for crystallographic computing. Journal of Applied Crystallography, 2019, 52, 882-897.	4.5	3
77	Nondestructive Evaluation of Photo-Electrical Properties of 3C-SiC (111) Homoepitaxial Layers Grown by CVD. Materials Science Forum, 0, 679-680, 153-156.	0.3	1
78	Advances in original fibres fabrication using innovative techniques. Optical and Quantum Electronics, 2007, 39, 1033-1045.	3.3	0
79	On the Stability of 3C-SiC Single Crystals at High Temperatures. Materials Science Forum, 0, 717-720, 493-496.	0.3	0