

RenÃ© GuinebretiÃ©re

List of Publications by Year in descending order

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83
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331670

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84
all docs

84
docs citations

84
times ranked

2090
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of various chemical treatments on the composition and structure of hemp fibres. Composites Part A: Applied Science and Manufacturing, 2008, 39, 514-522.	7.6	473
2	Effect of tensile and compressive strains on the transport properties of SmNiO ₃ layers epitaxially grown on (001) SrTiO ₃ and LaAlO ₃ substrates. Applied Physics Letters, 2007, 91, .	3.3	69
3	Tetragonal zirconia powders from the zirconium n-propoxide-acetylacetonate-water-isopropanol system. Journal of Non-Crystalline Solids, 1992, 147-148, 542-547.	3.1	59
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	Reflection Asymmetric Powder Diffraction with Flat-Plate Sample using a Curved Position-Sensitive Detector (INEL CPS 120). Journal of Applied Crystallography, 1996, 29, 540-546.	4.5	47
6	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
7	Probing the Dehydroxylation of Kaolinite and Halloysite by In Situ High Temperature X-ray Diffraction. Minerals (Basel, Switzerland), 2020, 10, 480.	2.0	40
8	XRD and TEM study of heteroepitaxial growth of zirconia on magnesia single crystal. Thin Solid Films, 1998, 319, 197-201.	1.8	38
9	Raman spectra of tetragonal zirconia: powder to zircaloy oxide frequency shift. Journal of Nuclear Materials, 2001, 288, 241-247.	2.7	35
10	Shape, size and composition of mullite nanocrystals from a rapidly sintered kaolin. Journal of the European Ceramic Society, 2001, 21, 2369-2376.	5.7	32
11	Size and shape characterization of TiO ₂ aerogel nanocrystals. Scripta Materialia, 1996, 7, 725-731.	0.5	30
12	A new method for the determination of strain profiles in epitaxial thin films using X-ray diffraction. Journal of Applied Crystallography, 2003, 36, 1424-1431.	4.5	28
13	From amorphous phase separations to nanostructured materials in sol-gel derived ZrO ₂ :Eu ³⁺ /SiO ₂ and ZnO/SiO ₂ composites. Journal of Non-Crystalline Solids, 2006, 352, 2152-2158.	3.1	28
14	Phase separation in sol-gel derived ZrO ₂ -SiO ₂ nanostructured materials. Journal of the European Ceramic Society, 2005, 25, 283-286.	5.7	25
15	SrBi ₂ Nb ₂ O ₉ Ferroelectric Powders and Thin Films Prepared by Sol-Gel. Journal of Sol-Gel Science and Technology, 1998, 13, 885-888.	2.4	24
16	Synthesis and sintering of zirconium oxide aerogel. Journal of Non-Crystalline Solids, 1998, 225, 120-124.	3.1	24
17	Phenomenological theory of lattice dynamics and polymorphism of ZrO ₂ . Physical Review B, 2003, 68, .	3.2	24
18	X-Ray diffraction line broadening by stacking faults in SrBi ₂ Nb ₂ O ₉ /SrTiO ₃ epitaxial thin films. Thin Solid Films, 2001, 391, 42-46.	1.8	23

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19	Sol-gel fabrication of heteroepitaxial zirconia films on MgO(001) substrates. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 1517-1531.	0.6	22
20	Miscut angles measurement and precise sample positioning with a four circle diffractometer. Applied Surface Science, 2001, 180, 322-327.	6.1	22
21	Investigation of strain relaxation mechanisms and transport properties in epitaxial SmNiO ₃ films. Journal of Applied Physics, 2008, 103, 123501.	2.5	22
22	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
23	Microstructural study of SnO ₂ thin layers deposited on sapphire by sol-gel dip-coating. Thin Solid Films, 2009, 518, 1-5.	1.8	21
24	Advanced Non-Destructive in Situ Characterization of Metals with the French Collaborating Research Group D2AM/BM02 Beamline at the European Synchrotron Radiation Facility. Metals, 2019, 9, 352.	2.3	21
25	Epitaxial zirconia films on sapphire substrates. Thin Solid Films, 1998, 336, 156-159.	1.8	20
26	Growth of LiNbO ₃ thin films on sapphire by pulsed-laser deposition for electro-optic modulators. Applied Surface Science, 2007, 253, 8263-8267.	6.1	20
27	Structural characterisation of sol-gel SrBi ₂ Nb ₂ O ₉ thin film deposited on (001) SrTiO ₃ single crystal. Journal of the European Ceramic Society, 1999, 19, 1379-1381.	5.7	19
28	A study of the mechanochemical synthesis of NaNbO ₃ . Journal of the European Ceramic Society, 2007, 27, 2265-2271.	5.7	19
29	Microstructural analysis in epitaxial zirconia layers. Applied Surface Science, 2002, 188, 80-84.	6.1	18
30	Instrumental aspects in X-ray diffraction on polycrystalline materials. Powder Diffraction, 2005, 20, 294-305.	0.2	18
31	Self-patterned oxide nanostructures grown by post-deposition thermal annealing on stepped surfaces. Nanotechnology, 2007, 18, 015301.	2.6	18
32	Identification and orientation determination of parent cubic domains from electron backscattered diffraction maps of monoclinic pure zirconia. Scripta Materialia, 2010, 63, 411-414.	5.2	17
33	Ceramic nanocomposites obtained by sol-gel coating of submicron powders. Acta Materialia, 2001, 49, 811-816.	7.9	16
34	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
35	Two-dimensional versus three-dimensional post-deposition grain growth in epitaxial oxide thin films. Thin Solid Films, 2007, 515, 7080-7085.	1.8	15
36	Role of nanostructure on the optical waveguiding properties of epitaxial LiNbO ₃ films. Journal Physics D: Applied Physics, 2009, 42, 145403.	2.8	15

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37	Epitaxial stabilization of SmNiO ₃ films on (001) SrTiO ₃ substrates. Journal Physics D: Applied Physics, 2007, 40, 4872-4876.	2.8	14
38	Solidification structure in pure zirconia liquid molten phase. Journal of the European Ceramic Society, 2013, 33, 259-268.	5.7	14
39	Modelling of line profile asymmetry caused by axial divergence in powder diffraction. Journal of Applied Crystallography, 2001, 34, 436-441.	4.5	13
40	Defect structure of pulsed laser deposited LiNbO ₃ /Al ₂ O ₃ layers determined by X-ray diffraction reciprocal space mapping. Thin Solid Films, 2003, 429, 55-62.	1.8	13
41	Crystallography: past and present. Applied Physics A: Materials Science and Processing, 2007, 89, 813-823.	2.3	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	Early stages of crystallization in gel derived ZrO ₂ precursors. Journal of Sol-Gel Science and Technology, 1997, 8, 419-424.	2.4	12
44	Understanding of one dimensional ordering mechanisms at the (001) sapphire vicinal surface. Journal of Applied Physics, 2017, 121, .	2.5	12
45	Coating of oxide powders with alkoxide derived zirconia. Journal of Sol-Gel Science and Technology, 1994, 2, 539-544.	2.4	11
46	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
47	Sol-gel coating of ceramic powders. Philosophical Magazine Letters, 1994, 70, 389-396.	1.2	10
48	Grain boundary sliding-induced deformation in a 30 wt% zirconia/spinel composite: influence of stress. Journal of the European Ceramic Society, 2000, 20, 2063-2068.	5.7	10
49	X-Ray diffraction from epitaxial oxide layers grown from sol-gel. Thin Solid Films, 2003, 434, 1-6.	1.8	10
50	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
51	Mechanical behavior characterization of high zirconia fused-cast refractories at high temperature: Influence of the cooling stage on microstructural changes. Journal of the European Ceramic Society, 2012, 32, 3929-3939.	5.7	10
52	A new way to prepare tin oxide precursor polymeric gels. Journal of Sol-Gel Science and Technology, 2010, 55, 15-18.	2.4	9
53	Properties of LiNbO ₃ based heterostructures grown by pulsed-laser deposition for optical waveguiding application. Thin Solid Films, 2010, 518, 4654-4657.	1.8	9
54	Aluminum nitride nano-dots prepared by plasma enhanced chemical vapor deposition on Si(111). Surface and Coatings Technology, 2011, 205, S586-S591.	4.8	9

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55	Investigation by neutron diffraction of texture induced by the cooling process of zirconia refractories. <i>Journal of the European Ceramic Society</i> , 2014, 34, 4043-4052.	5.7	9
56	Small-angle X-ray scattering study of cordierite sol-gel synthesis. <i>Journal of Applied Crystallography</i> , 1991, 24, 765-770.	4.5	8
57	Planar faults in layered Bi-containing perovskites studied by X-ray diffraction line profile analysis. <i>Journal of Applied Crystallography</i> , 2001, 34, 699-703.	4.5	8
58	Strain profiles in thin films: influence of a coherently diffracting substrate and thickness fluctuations. <i>Journal of Applied Crystallography</i> , 2009, 42, 85-92.	4.5	8
59	EBSD-assisted Laue microdiffraction for microstrain analysis. <i>Journal of Applied Crystallography</i> , 2018, 51, 55-67.	4.5	8
60	Influence of thickness on the epitaxial stabilisation of SmNiO ₃ thin films. <i>Surface and Coatings Technology</i> , 2007, 201, 9021-9024.	4.8	7
61	Neutron diffraction measurements of residual stress distribution in large zirconia based refractory bricks produced by electro-fusion and casting. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2295-2302.	5.7	7
62	Growth and relaxation of (Zr,Y)O ₂ epitaxial layers analyzed by XRD reciprocal space mapping. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 109, 42-46.	3.5	6
63	Influence of strain relaxation on the structural stabilization of SmNiO ₃ films epitaxially grown on (001) SrTiO ₃ substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 144, 32-37.	3.5	6
64	Huge local elastic strains in bulk nanostructured pure zirconia materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 806, 140817.	5.6	6
65	Semi-coherent zirconia inclusions in a ceramic matrix. <i>Journal of Materials Research</i> , 2000, 15, 2482-2487.	2.6	5
66	Planar faults in Aurivillius compounds: An X-ray diffraction study. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002, 82, 615-632.	0.6	5
67	<i>In situ</i> time-resolved small-angle X-ray scattering observation of the fractal aggregation process in tin alkoxide polymeric solution. <i>Journal of Applied Crystallography</i> , 2016, 49, 366-374.	4.5	5
68	Full reciprocal-space mapping up to 2000 K under controlled atmosphere: the multipurpose QMAX furnace. <i>Journal of Applied Crystallography</i> , 2020, 53, 650-661.	4.5	5
69	LaueNN: neural-network-based <i>hkl</i> recognition of Laue spots and its application to polycrystalline materials. <i>Journal of Applied Crystallography</i> , 2022, 55, 737-750.	4.5	5
70	High-temperature (1500 K) reciprocal space mapping on a laboratory X-ray diffractometer. <i>Journal of Applied Crystallography</i> , 2007, 40, 332-337.	4.5	4
71	Symmetric faceting of a sapphire vicinal surface revealed by grazing incidence small-angle X-ray scattering 3D mapping. <i>Applied Physics Letters</i> , 2017, 111, 031601.	3.3	4
72	The experience of the <i>Voyage dans le cristal</i> travelling museum exhibition. <i>Journal of Applied Crystallography</i> , 2015, 48, 1276-1289.	4.5	3

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73	Study of 0.9PMN-0.1PT Dielectric Behaviour in Relation to the Nanostructure. Journal De Physique III, 1997, 7, 1173-1196.	0.3	2
74	Analysis of electromechanical behaviour of (1-x)PMN-xPT (with x=0.1) bulk ceramics. Ceramics International, 2000, 26, 655-662.	4.8	2
75	Strain profiles in yttria stabilized zirconia epitaxial thin films determined by high-resolution X-ray diffraction. Thin Solid Films, 2004, 450, 66-70.	1.8	2
76	Elaboration of tin oxide nano-islands through post-deposition thermal treatment. Thin Solid Films, 2014, 562, 200-205.	1.8	2
77	Coupling between elastic strains and phase transition in dense pure zirconia polycrystals. Physical Review Materials, 2022, 6, .	2.4	2
78	Cationic local composition fluctuations in rapidly cooled nuclear fuel melts. Nuclear Materials and Energy, 2022, 31, 101183.	1.3	2
79	Vasarely painting at the nanoscale on sapphire crystals. Nano Research, 2020, 13, 2512-2516.	10.4	1
80	Microstructural and Microwave Characterizations of Pulsed Laser Ablated Barium and Strontium Titanate Thin Films. Ferroelectrics, 2003, 288, 49-57.	0.6	0
81	Structural Characterization Using X-ray Diffraction of Ti Indiffused Periodically Poled LiNbO3 Fabricated by Direct Electron Beam Bombardment. Ferroelectrics, Letters Section, 2003, 30, 91-98.	1.0	0
82	Size&Strain VI. Thin Solid Films, 2013, 530, 1.	1.8	0
83	Far from the equilibrium crystallization of oxide quantum dots in dried inorganic gels. Journal Physics D: Applied Physics, 2018, 51, 255303.	2.8	0