RenÃ© GuinebretiÃ¨re

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7748101/publications.pdf

Version: 2024-02-01

83 papers	1,834 citations	331670 21 h-index	315739 38 g-index
84 all docs	84 docs citations	84 times ranked	2090 citing authors

#	Article	IF	Citations
1	Coupling between elastic strains and phase transition in dense pure zirconia polycrystals. Physical Review Materials, 2022, 6, .	2.4	2
2	Cationic local composition fluctuations in rapidly cooled nuclear fuel melts. Nuclear Materials and Energy, 2022, 31, 101183.	1.3	2
3	LaueNN: neural-network-based hkl recognition of Laue spots and its application to polycrystalline materials. Journal of Applied Crystallography, 2022, 55, 737-750.	4.5	5
4	Huge local elastic strains in bulk nanostructured pure zirconia materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 806, 140817.	5.6	6
5	Probing the Dehydroxylation of Kaolinite and Halloysite by In Situ High Temperature X-ray Diffraction. Minerals (Basel, Switzerland), 2020, 10, 480.	2.0	40
6	Full reciprocal-space mapping up to 2000â€…K under controlled atmosphere: the multipurpose QMAX furnace. Journal of Applied Crystallography, 2020, 53, 650-661.	4.5	5
7	Vasarely painting at the nanoscale on sapphire crystals. Nano Research, 2020, 13, 2512-2516.	10.4	1
8	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
9	EBSD-assisted Laue microdiffraction for microstrain analysis. Journal of Applied Crystallography, 2018, 51, 55-67.	4.5	8
10	Far from the equilibrium crystallization of oxide quantum dots in dried inorganic gels. Journal Physics D: Applied Physics, 2018, 51, 255303.	2.8	0
11	Neutron diffraction measurements of residual stress distribution in large zirconia based refractory bricks produced by electro-fusion and casting. Journal of the European Ceramic Society, 2017, 37, 2295-2302.	5.7	7
12	Understanding of one dimensional ordering mechanisms at the (001) sapphire vicinal surface. Journal of Applied Physics, 2017, 121, .	2.5	12
13	Symmetric faceting of a sapphire vicinal surface revealed by grazing incidence small-angle X-ray scattering 3D mapping. Applied Physics Letters, 2017, 111, 031601.	3.3	4
14	In situ time-resolved small-angle X-ray scattering observation of the fractal aggregation process in tin alkoxide polymeric solution. Journal of Applied Crystallography, 2016, 49, 366-374.	4.5	5
15	The experience of the Voyage dans le cristal travelling museum exhibition. Journal of Applied Crystallography, 2015, 48, 1276-1289.	4.5	3
16	Elaboration of tin oxide nano-islands through post-deposition thermal treatment. Thin Solid Films, 2014, 562, 200-205.	1.8	2
17	Investigation by neutron diffraction of texture induced by the cooling process of zirconia refractories. Journal of the European Ceramic Society, 2014, 34, 4043-4052.	5.7	9
18	Size&Strain VI. Thin Solid Films, 2013, 530, 1.	1.8	0

#	Article	IF	Citations
19	Solidification structure in pure zirconia liquid molten phase. Journal of the European Ceramic Society, 2013, 33, 259-268.	5.7	14
20	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
21	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
22	A new way to prepare tin oxide precursor polymeric gels. Journal of Sol-Gel Science and Technology, 2010, 55, 15-18.	2.4	9
23	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
24	Properties of LiNbO3 based heterostructures grown by pulsed-laser deposition for optical waveguiding application. Thin Solid Films, 2010, 518, 4654-4657.	1.8	9
25	Role of nanostructure on the optical waveguiding properties of epitaxial LiNbO₃films. Journal Physics D: Applied Physics, 2009, 42, 145403.	2.8	15
26	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
27	Microstructural study of SnO2 thin layers deposited on sapphire by solâ€“gel dip-coating. Thin Solid Films, 2009, 518, 1-5.	1.8	21
28	Nanostructured sapphire vicinal surfaces as templates for the growth of self-organized oxide nanostructures. Applied Surface Science, 2009, 256, 924-928.	6.1	13
29	Synthesis of tin oxide nanosized crystals embedded in silica matrix through solâ€“gel process using alkoxide precursors. Journal of Non-Crystalline Solids, 2009, 355, 951-959.	3.1	16
30	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
31	Investigation of strain relaxation mechanisms and transport properties in epitaxial SmNiO3 films. Journal of Applied Physics, 2008, 103, 123501.	2.5	22
32	The role of strain-induced structural changes in the metalâ€“insulator transition in epitaxial SmNiO₃films. Journal of Physics Condensed Matter, 2008, 20, 145216.	1.8	21
33	Epitaxial stabilization of SmNiO₃films on (0â€‰0â€‰1) SrTiO₃substrates. Journal Physics D: Applied Physics, 2007, 40, 4872-4876.	2.8	14
34	Self-patterned oxide nanostructures grown by post-deposition thermal annealing on stepped surfaces. Nanotechnology, 2007, 18, 015301.	2.6	18
35	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
36	Influence of thickness on the epitaxial stabilisation of SmNiO3 thin films. Surface and Coatings Technology, 2007, 201, 9021-9024.	4.8	7

#	Article	IF	Citations
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	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
39	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
40	A study of the mechanochemical synthesis of NaNbO3. Journal of the European Ceramic Society, 2007, 27, 2265-2271.	5.7	19
41	High-temperature (1500â€…K) reciprocal space mapping on a laboratory X-ray diffractometer. Journal of Applied Crystallography, 2007, 40, 332-337.	4.5	4
42	Crystallography: past and present. Applied Physics A: Materials Science and Processing, 2007, 89, 813-823.	2.3	13
43	From amorphous phase separations to nanostructured materials in solâ€“gel derived ZrO2:Eu3+/SiO2 and ZnO/SiO2 composites. Journal of Non-Crystalline Solids, 2006, 352, 2152-2158.	3.1	28
44	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
45	Instrumental aspects in X-ray diffraction on polycrystalline materials. Powder Diffraction, 2005, 20, 294-305.	0.2	18
46	Phase separation in solâ€“gel derived ZrO2â€“SiO2 nanostructured materials. Journal of the European Ceramic Society, 2005, 25, 283-286.	5.7	25
47	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
48	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
49	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
50	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
51	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
52	X-Ray diffraction from epitaxial oxide layers grown from solâ€“gel. Thin Solid Films, 2003, 434, 1-6.	1.8	10
53	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
54	Microstructural and Microwave Characterizations of Pulsed Laser Ablated Barium and Strontium Titanate Thin Films. Ferroelectrics, 2003, 288, 49-57.	0.6	0

#	Article	IF	Citations
55	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
56	Phenomenological theory of lattice dynamics and polymorphism ofZrO2. Physical Review B, 2003, 68, .	3.2	24
57	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
58	A high-resolution X-ray diffractometer for the study of imperfect materials. Journal of Applied Crystallography, 2002, 35, 606-614.	4.5	56
59	Microstructural analysis in epitaxial zirconia layers. Applied Surface Science, 2002, 188, 80-84.	6.1	18
60	Miscut angles measurement and precise sample positioning with a four circle diffractometer. Applied Surface Science, 2001, 180, 322-327.	6.1	22
61	Modelling of line profile asymmetry caused by axial divergence in powder diffraction. Journal of Applied Crystallography, 2001, 34, 436-441.	4.5	13
62	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
63	X-Ray diffraction line broadening by stacking faults in SrBi2Nb2O9/SrTiO3 epitaxial thin films. Thin Solid Films, 2001, 391, 42-46.	1.8	23
64	Raman spectra of tetragonal zirconia: powder to zircaloy oxide frequency shift. Journal of Nuclear Materials, 2001, 288, 241-247.	2.7	35
65	Ceramic nanocomposites obtained by solâ€“gel coating of submicron powders. Acta Materialia, 2001, 49, 811-816.	7.9	16
66	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
67	Grain boundary sliding-induced deformation in a 30 wt% zirconiaâ€“spinel composite: influence of stress. Journal of the European Ceramic Society, 2000, 20, 2063-2068.	5.7	10
68	Analysis of electromechanical behaviour of (1â€“x)PMNâ€“xPT (with xâ©½0.1) bulk ceramics. Ceramics International, 2000, 26, 655-662.	4.8	2
69	Semi-coherent zirconia inclusions in a ceramic matrix. Journal of Materials Research, 2000, 15, 2482-2487.	2.6	5
70	Structural characterisation of solâ€“gel SrBi2Nb2O9 thin film deposited on (001) SrTiO3 single crystal. Journal of the European Ceramic Society, 1999, 19, 1379-1381.	5.7	19
71	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
72	SrBi2Nb2O9 Ferroelectric Powders and Thin Films Prepared by Sol-Gel. Journal of Sol-Gel Science and Technology, 1998, 13, 885-888.	2.4	24

#	Article	IF	Citations
73	XRD and TEM study of heteroepitaxial growth of zirconia on magnesia single crystal. Thin Solid Films, 1998, 319, 197-201.	1.8	38
74	Epitaxial zirconia films on sapphire substrates. Thin Solid Films, 1998, 336, 156-159.	1.8	20
75	Synthesis and sintering of zirconium oxide aerogel. Journal of Non-Crystalline Solids, 1998, 225, 120-124.	3.1	24
76	Study of 0.9PMNâ€“0.1PT Dielectric Behaviour in Relation to the Nanostructure. Journal De Physique III, 1997, 7, 1173-1196.	0.3	2
77	Early stages of crystallization in gel derived ZrO2 precursors. Journal of Sol-Gel Science and Technology, 1997, 8, 419-424.	2.4	12
78	Size and shape characterization of TiO2 aerogel nanocrystals. Scripta Materialia, 1996, 7, 725-731.	0.5	30
79	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
80	Sol-gel coating of ceramic powders. Philosophical Magazine Letters, 1994, 70, 389-396.	1.2	10
81	Coating of oxide powders with alkoxide derived zirconia. Journal of Sol-Gel Science and Technology, 1994, 2, 539-544.	2.4	11
82	Tetragonal zirconia powders from the zirconium n-propoxide-acetylacetone-water-isopropanol system. Journal of Non-Crystalline Solids, 1992, 147-148, 542-547.	3.1	59
83	Small-angle X-ray scattering study of cordierite solâ€“gel synthesis. Journal of Applied Crystallography, 1991, 24, 765-770.	4.5	8