

Frederic Pailloux

List of Publications by Year in descending order

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81
papers

1,536
citations

331259

21
h-index

344852

36
g-index

83
all docs

83
docs citations

83
times ranked

2165
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain relaxation in the epitaxy of $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ grown by pulsed-laser deposition on $\text{SrTiO}_3(001)$. Philosophical Magazine, 2003, 83, 3201-3224.	0.7	96
2	Multiferroic Phase Transition near Room Temperature in BiFeO_3 Films. Physical Review Letters, 2011, 107, 237601.	2.9	88
3	Magnetoresistance and spin electronics. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 68-76.	1.0	74
4	Nanoscale analysis of $\text{aSrTiO}_3/\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ interface. Physical Review B, 2002, 66, .	1.1	71
5	Anisotropic optical properties of silver nanoparticle arrays on rippled dielectric surfaces produced by low-energy ion erosion. Physical Review B, 2009, 80, .	1.1	67
6	Yttrium oxide thin films, Y_2O_3 , grown by ion beam sputtering on Si. Journal Physics D: Applied Physics, 2000, 33, 2884-2889.	1.3	64
7	Y_2O_3 thin films: internal stress and microstructure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 34-38.	1.7	52
8	Superconducting properties of lead nanowires arrays. Physica C: Superconductivity and Its Applications, 2002, 377, 267-276.	0.6	48
9	Experimental evidence of nanometer-scale confinement of plasmonic eigenmodes responsible for hot spots in random metallic films. Physical Review B, 2013, 88, .	1.1	48
10	Yttrium sesquioxide, Y_2O_3 , thin films deposited on Si by ion beam sputtering: microstructure and dielectric properties. Thin Solid Films, 2001, 400, 106-110.	0.8	40
11	Fast determination of phases in Li_xFePO_4 using low losses in electron energy-loss spectroscopy. Applied Physics Letters, 2009, 94, .	1.5	35
12	Review of recent results on spin polarized tunneling and magnetic switching by spin injection. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 84, 1-9.	1.7	34
13	<i>In situ</i> probing of helium desorption from individual nanobubbles under electron irradiation. Applied Physics Letters, 2011, 98, .	1.5	33
14	Helium implantation into $4\text{H}\alpha\text{-SiC}$. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1916-1923.	0.8	31
15	Characterization methods of epitaxial $\text{Sr}_2\text{FeMoO}_6$ thin films. Journal of Crystal Growth, 2002, 241, 448-454.	0.7	29
16	Atomic structure and microstructures of supertetragonal multiferroic BiFeO_3 films. Physical Review B, 2014, 89, .	1.1	29
17	Spontaneous organization of columnar nanoparticles in $\text{Fe}\tilde{\text{B}}\text{N}$ nanocomposite films. Physical Review B, 2005, 71, .	1.1	28
18	Tunable plasmonic dichroism of Au nanoparticles self-aligned on rippled Al_2O_3 thin films. Europhysics Letters, 2011, 93, 26005.	0.7	28

#	ARTICLE	IF	CITATIONS
19	Formation of (Ti,Al)N ^x -Ti ₂ AlN multilayers after annealing of TiN ^x -TiAl(N) multilayers deposited by ion beam sputtering. Journal of Applied Physics, 2008, 103, .	1.1	27
20	<i>In situ</i> controlled modification of the helium density in single helium-filled nanobubbles. Journal of Applied Physics, 2014, 115, .	1.1	27
21	Quantitative analysis of nanoripple and nanoparticle patterns by grazing incidence small-angle x-ray scattering 3D mapping. Physical Review B, 2012, 85, .	1.1	26
22	Transmission electron microscopy investigations of damage induced by high energy helium implantation in 4H ⁺ SiC. Journal of Applied Physics, 2003, 94, 7116-7120.	1.1	22
23	Magnetron Sputtering Deposition of Ag/TiO ₂ Nanocomposite Thin Films for Repeatable and Multicolor Photochromic Applications on Flexible Substrates. Advanced Materials Interfaces, 2015, 2, 1500134.	1.9	22
24	Strain and magnetism in (La _{0.7} Sr _{0.3})MnO ₃ very thin films epitaxially grown on SrTiO ₃ . Applied Surface Science, 2002, 188, 176-181.	3.1	21
25	Evidence for capping-layer effects on the morphology and plasmon excitation of Ag nanoparticles. Journal of Applied Physics, 2007, 102, 113518.	1.1	21
26	The effect of the substrate temperature on extended defects created by hydrogen implantation in germanium. Journal of Applied Physics, 2007, 102, 096101.	1.1	21
27	BiFeO ₃ thin films prepared by MOCVD. Surface and Coatings Technology, 2007, 201, 9149-9153.	2.2	21
28	Yttrium oxide thin films: Influence of the oxygen vacancy network organization on the microstructure. Thin Solid Films, 2007, 515, 6385-6390.	0.8	21
29	Twinning and lattice distortions in the epitaxy of La _{0.67} Sr _{0.33} MnO ₃ thin films on (0 0 1) SrTiO ₃ . Applied Surface Science, 2001, 177, 263-267.	3.1	20
30	Characterization of (111) surface tailored Pt nanoparticles by electrochemistry and X-ray powder diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 83-90.	2.6	18
31	Characterisation of Y ₂ O ₃ thin films deposited by laser ablation on MgO: why a biaxial epitaxy. Applied Surface Science, 2002, 188, 29-35.	3.1	17
32	Damage formation and recovery in temperature helium implanted 4H ⁺ SiC. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 102, 289-292.	1.7	17
33	Gold and silver nanoparticles embedded in dielectric-capping layers studied by HAADF-STEM. EPJ Applied Physics, 2008, 44, 3-9.	0.3	17
34	Helium implanted gallium nitride evidence of gas-filled rod-shaped cavity formation along the c-axis. Journal of Applied Physics, 2008, 104, .	1.1	16
35	Gentle quantitative measurement of helium density in nanobubbles in silicon by spectrum imaging. Micron, 2015, 77, 57-65.	1.1	16
36	Mechanical properties of Al _f %-Al-Cu-Fe composites synthesized by the SPS technique. Materials Characterization, 2018, 145, 644-652.	1.9	16

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37	Al-coated iron particles: Synthesis, characterization and improvement of oxidation resistance. Surface and Coatings Technology, 2008, 202, 4302-4306.	2.2	14
38	Pulsed laser deposition of Y2O3 thin films on MgO. Applied Surface Science, 2002, 186, 477-482.	3.1	13
39	Improved oxygen mobility in nanosized mixed-oxide particles synthesized using a simple nanocasting route. Chemical Communications, 2008, , 4504.	2.2	13
40	Nanostructured sapphire vicinal surfaces as templates for the growth of self-organized oxide nanostructures. Applied Surface Science, 2009, 256, 924-928.	3.1	13
41	Pinch off of nanopipes under electron irradiation in GaN. Applied Physics Letters, 2005, 86, 131908.	1.5	12
42	Encapsulation of metallic nanoclusters in carbon and boron nitride thin films prepared by ion-beam sputtering. Surface and Coatings Technology, 2006, 200, 6251-6257.	2.2	12
43	Damage formation in high energy helium implanted 4H-SiC. Nuclear Instruments & Methods in Physics Research B, 2004, 218, 391-395.	0.6	11
44	Epitaxial growth and mechanical properties of (001) ZrN/W nanolaminates. Surface and Coatings Technology, 2008, 202, 3683-3687.	2.2	11
45	Atomic Scale Structure of (001) Hydrogen-Induced Platelets in Germanium. Physical Review Letters, 2009, 102, 155504.	2.9	11
46	Self-organized ultrathin FePt nanowires produced by glancing-angle ion-beam codeposition on rippled alumina surfaces. Nanoscale, 2015, 7, 1437-1445.	2.8	11
47	Microstructure imaging of the YBCO thin film/MgO substrate interface: HRTEM and Fourier analysis of the Moiré fringe pattern. Thin Solid Films, 1998, 319, 163-167.	0.8	10
48	Microstructural investigations of Y2O3 thin films deposited by laser ablation on MgO. Applied Physics A: Materials Science and Processing, 2000, 71, 675-680.	1.1	10
49	Surface Plasmon Resonances and Local Field Enhancement in Aluminum Nanoparticles Embedded in Silicon Nitride. Journal of Physical Chemistry C, 2019, 123, 13908-13917.	1.5	10
50	Interfacial phases in epitaxial growth of Y2O3 on MgO studied via combining electron energy-loss spectroscopy and real-space self-consistent full multiple scattering calculations. Physical Review B, 2005, 72, .	1.1	9
51	Negative differential magnetization for Ni nanoparticles in Al. Physical Review B, 2005, 71, .	1.1	8
52	HRTEM and EELS study of Y2O3/MgO thin films. Micron, 2006, 37, 420-425.	1.1	8
53	Extended Defects Created by Light Ion Implantation in Ge. ECS Transactions, 2009, 16, 163-175.	0.3	8
54	Evolution of plasmonic nanostructures under ultra-low-energy ion bombardment. Applied Surface Science, 2021, 544, 148672.	3.1	8

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55	Dislocations in 6H-SiC and their influence on electrical properties of n-type crystals. EPJ Applied Physics, 1998, 2, 111-115.	0.3	8
56	Partial Dislocation Source in InSb: A New Mechanism. Physica Status Solidi A, 1999, 171, 59-65.	1.7	7
57	AFM, SEM, EDX and HRTEM study of the crystalline growth rate anisotropy-induced internal stress and surface roughness of YBaCuO thin film. Materials Characterization, 2001, 46, 55-63.	1.9	7
58	Atomic-scale analysis of interfaces in an all-oxide magnetic tunnel junction. EPJ Applied Physics, 2003, 24, 215-221.	0.3	7
59	Shallow boron implantations in Ge and the role of the pre-amorphization depth. Materials Science in Semiconductor Processing, 2008, 11, 368-371.	1.9	7
60	Influence of the pre-treatment anneal on Co δ -germanide Schottky contacts. Materials Science in Semiconductor Processing, 2008, 11, 300-304.	1.9	6
61	Deposit of glass fragments during femtosecond laser penetrating keratoplasty. Graefe's Archive for Clinical and Experimental Ophthalmology, 2009, 247, 107-113.	1.0	5
62	Structure and far-field optical properties of self-organized bimetallic Au δ -Ag δ nanoparticles embedded in alumina thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1344-1348.	0.8	5
63	Quantitative HRTEM investigation of nanoplatelets. Micron, 2010, 41, 135-142.	1.1	4
64	Monitoring the reactivity of Ag nanoparticles in oxygen atmosphere by using <i>in situ</i> and real-time optical spectroscopy. Journal of Nanophotonics, 2012, 6, 061502.	0.4	4
65	Sub-Wavelength Arrays of Metallic Nanoparticles for Polarization-Selective Broad-Band Absorbers. Nanoscience and Nanotechnology Letters, 2013, 5, 19-26.	0.4	4
66	In situ Raman spectroscopy of nanostructuring by surface plasmas generated on alumina thin film-silicon bilayers. Plasma Sources Science and Technology, 2019, 28, 085007.	1.3	3
67	On the possibility of synthesizing multilayered coatings in the (Ti,Al)N system by RGPP: A microstructural study. Surface and Coatings Technology, 2019, 374, 845-851.	2.2	3
68	Optical and digital processing of H.R.T.E.M. images of Si thin films deposited by R.T.C.V.D.. Thin Solid Films, 1998, 319, 177-181.	0.8	2
69	Epitaxial bilayers and trilayers of superconducting and high K materials grown by PLD for microwave applications. Thin Solid Films, 2004, 453-454, 273-278.	0.8	2
70	On the dislocation core structures associated to point defect cluster formation in diamond and silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1067-1070.	0.8	2
71	Loss of ductility in optimized austenitic steel at moderate temperature: A multi-scale study of deformation mechanisms. Materialia, 2020, 9, 100562.	1.3	2
72	Stress relaxation in c δ -YBaCuO thin films on MgO substrate studied by LACBED. Thin Solid Films, 2000, 368, 142-146.	0.8	1

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73	Evidence of random Surface Plasmon modes in fractal metal films. , 2014, , .		1
74	Laser deposition of YBaCuO thin films: stress measurements and microstructure investigations. Applied Surface Science, 1999, 138-139, 549-551.	3.1	0
75	Epitaxial stress study by large angle convergent beam electron diffraction and high-resolution transmission electron microscopy Moiré fringe pattern. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 288, 244-247.	2.6	0
76	Crystalline growth rate and microstructure in YBaCuO thin films. Physica C: Superconductivity and Its Applications, 2001, 351, 9-12.	0.6	0
77	Nanoscale analysis of a Co-SrTiO ₃ interface in a Magnetic tunnel junction. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	0
78	Comparison of Defects Created by Plasma-Based Ion Implantation and Conventional Implantation of Hydrogen in Germanium. Solid State Phenomena, 2008, 131-133, 101-106.	0.3	0
79	Electron Diffuse Scattering Study of Perovskite Thin Films. Microscopy and Microanalysis, 2009, 15, 1016-1017.	0.2	0
80	Electron diffuse scattering in epitaxially grown SrTiO ₃ thin film.. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s203-s204.	0.3	0
81	Monitoring the reactivity of Ag nanoparticles for different atmospheres by using in situ and real-time optical spectroscopy. , 2011, , .		0