Frederic Pailloux

List of Publications by Year
in descending order

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	Evolution of plasmonic nanostructures under ultra-low-energy ion bombardment. Applied Surface Science, 2021, 544, 148672.	3.1	8
2	Loss of ductility in optimized austenitic steel at moderate temperature: A multi-scale study of deformation mechanisms. Materialia, 2020, 9, 100562.	1.3	2
3	In situ Raman spectroscopy of nanostructuration by surface plasmas generated on alumina thin film-silicon bilayers. Plasma Sources Science and Technology, 2019, 28, 085007.	1.3	3
4	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
5	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
6	Mechanical properties of Al/Ï‰-Al-Cu-Fe composites synthesized by the SPS technique. Materials Characterization, 2018, 145, 644-652.	1.9	16
7	Structure and farâ€field optical properties of selfâ€organized bimetallic Au_xâ€Ag_{1â€“x} nanoparticles embedded in alumina thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1344-1348.	0.8	5
8	Magnetron Sputtering Deposition of Ag/TiO₂ Nanocomposite Thin Films for Repeatable and Multicolor Photochromic Applications on Flexible Substrates. Advanced Materials Interfaces, 2015, 2, 1500134.	1.9	22
9	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
10	Gentle quantitative measurement of helium density in nanobubbles in silicon by spectrum imaging. Micron, 2015, 77, 57-65.	1.1	16
11	Self-organized ultrathin FePt nanowires produced by glancing-angle ion-beam codeposition on rippled alumina surfaces. Nanoscale, 2015, 7, 1437-1445.	2.8	11
12	In situ controlled modification of the helium density in single helium-filled nanobubbles. Journal of Applied Physics, 2014, 115, .	1.1	27
13	Atomic structure and microstructures of supertetragonal multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>BiFeO</mml:mtext><mml:mn>3</mml:mn></mml:msub></mml:math> films. Physical Review B, 2014, 89, .	1.1	29
14	Evidence of random Surface Plasmon modes in fractal metal films. , 2014, , .		1
15	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
16	Sub-Wavelength Arrays of Metallic Nanoparticles for Polarization-Selective Broad-Band Absorbers. Nanoscience and Nanotechnology Letters, 2013, 5, 19-26.	0.4	4
17	Monitoring the reactivity of Ag nanoparticles in oxygen atmosphere by using <italic>in situ</italic> and real-time optical spectroscopy. Journal of Nanophotonics, 2012, 6, 061502.	0.4	4
18	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

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19	Multiferroic Phase Transition near Room Temperature in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Films. Physical Review Letters, 2011, 107, 237601.	2.9	88
20	Monitoring the reactivity of Ag nanoparticles for different atmospheres by using in situ and real-time optical spectroscopy. , 2011, , .		0
21	Tunable plasmonic dichroism of Au nanoparticles self-aligned on rippled Al ₂ O ₃ thin films. Europhysics Letters, 2011, 93, 26005.	0.7	28
22	In situ probing of helium desorption from individual nanobubbles under electron irradiation. Applied Physics Letters, 2011, 98, .	1.5	33
23	Quantitative HRTEM investigation of nanoplatelets. Micron, 2010, 41, 135-142.	1.1	4
24	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
25	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
26	Atomic Scale Structure of (001) Hydrogen-Induced Platelets in Germanium. Physical Review Letters, 2009, 102, 155504.	2.9	11
27	Extended Defects Created by Light Ion Implantation in Ge. ECS Transactions, 2009, 16, 163-175.	0.3	8
28	Deposit of glass fragments during femtosecond laser penetrating keratoplasty. Graefe's Archive for Clinical and Experimental Ophthalmology, 2009, 247, 107-113.	1.0	5
29	Helium implantation into 4Hâ€SiC. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1916-1923.	0.8	31
30	Nanostructured sapphire vicinal surfaces as templates for the growth of self-organized oxide nanostructures. Applied Surface Science, 2009, 256, 924-928.	3.1	13
31	Fast determination of phases in LixFePO4 using low losses in electron energy-loss spectroscopy. Applied Physics Letters, 2009, 94, .	1.5	35
32	Electron Diffuse Scattering Study of Perovskite Thin Films. Microscopy and Microanalysis, 2009, 15, 1016-1017.	0.2	0
33	Electron diffuse scattering in epitaxially grown SrTiO3thin film.. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s203-s204.	0.3	0
34	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
35	Epitaxial growth and mechanical properties of (001) ZrN/W nanolaminates. Surface and Coatings Technology, 2008, 202, 3683-3687.	2.2	11
36	Al-coated iron particles: Synthesis, characterization and improvement of oxidation resistance. Surface and Coatings Technology, 2008, 202, 4302-4306.	2.2	14

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37	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
38	Influence of the pre-treatment anneal on Coâ€“germanide Schottky contacts. Materials Science in Semiconductor Processing, 2008, 11, 300-304.	1.9	6
39	Improved oxygen mobility in nanosized mixed-oxide particles synthesized using a simple nanocasting route. Chemical Communications, 2008, , 4504.	2.2	13
40	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
41	Formation of (Ti,Al)Nâ•Ti2AlN multilayers after annealing of TiNâ•TiAl(N) multilayers deposited by ion beam sputtering. Journal of Applied Physics, 2008, 103, .	1.1	27
42	Gold and silver nanoparticles embedded in dielectric-capping layers studied by HAADF-STEM. EPJ Applied Physics, 2008, 44, 3-9.	0.3	17
43	Evidence for capping-layer effects on the morphology and plasmon excitation of Ag nanoparticles. Journal of Applied Physics, 2007, 102, 113518.	1.1	21
44	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
45	BiFeO3 thin films prepared by MOCVD. Surface and Coatings Technology, 2007, 201, 9149-9153.	2.2	21
46	Yttrium oxide thin films: Influence of the oxygen vacancy network organization on the microstructure. Thin Solid Films, 2007, 515, 6385-6390.	0.8	21
47	HRTEM and EELS study of Y2O3/MgO thin films. Micron, 2006, 37, 420-425.	1.1	8
48	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
49	Pinch off of nanopipes under electron irradiation in GaN. Applied Physics Letters, 2005, 86, 131908.	1.5	12
50	Negative differential magnetization for Ni nanoparticles in Al. Physical Review B, 2005, 71, .	1.1	8
51	Interfacial phases in epitaxial growth ofY2O3on 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
52	Spontaneous organization of columnar nanoparticles inFeâ”BNnanocomposite films. Physical Review B, 2005, 71, .	1.1	28
53	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
54	Damage formation in high energy helium implanted 4H-SiC. Nuclear Instruments & Methods in Physics Research B, 2004, 218, 391-395.	0.6	11

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55	Y2O3 thin films: internal stress and microstructure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 34-38.	1.7	52
56	Damage formation and recovery in temperature helium implanted 4Hâ€“SiC. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 102, 289-292.	1.7	17
57	Strain relaxation in the epitaxy of La2/3Sr1/3MnO3grown by pulsed-laser deposition on SrTiO3(001). Philosophical Magazine, 2003, 83, 3201-3224.	0.7	96
58	Transmission electron microscopy investigations of damage induced by high energy helium implantation in 4Hâ€“SiC. Journal of Applied Physics, 2003, 94, 7116-7120.	1.1	22
59	Atomic-scale analysis of interfaces in an all-oxide magnetic tunnel junction. EPJ Applied Physics, 2003, 24, 215-221.	0.3	7
60	Nanoscale analysis of a Co-SrTiO3 interface in a Magnetic tunnel junction. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	0
61	Nanoscale analysis of aSrTiO3/La2/3Sr1/3MnO3interface. Physical Review B, 2002, 66, .	1.1	71
62	Superconducting properties of lead nanowires arrays. Physica C: Superconductivity and Its Applications, 2002, 377, 267-276.	0.6	48
63	Strain and magnetism in (La0.7Sr0.3)MnO3 very thin films epitaxially grown on SrTiO3. Applied Surface Science, 2002, 188, 176-181.	3.1	21
64	Pulsed laser deposition of Y2O3 thin films on MgO. Applied Surface Science, 2002, 186, 477-482.	3.1	13
65	Magnetoresistance and spin electronics. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 68-76.	1.0	74
66	Characterisation of Y2O3 thin films deposited by laser ablation on MgO: why a biaxial epitaxy. Applied Surface Science, 2002, 188, 29-35.	3.1	17
67	Characterization methods of epitaxial Sr2FeMoO6 thin films. Journal of Crystal Growth, 2002, 241, 448-454.	0.7	29
68	Twinning and lattice distortions in the epitaxy of La0.67Sr0.33MnO3 thin films on (0 0 1) SrTiO3. Applied Surface Science, 2001, 177, 263-267.	3.1	20
69	Yttrium sesquioxide, Y2O3, thin films deposited on Si by ion beam sputtering: microstructure and dielectric properties. Thin Solid Films, 2001, 400, 106-110.	0.8	40
70	Crystalline growth rate and microstructure in YBaCuO thin films. Physica C: Superconductivity and Its Applications, 2001, 351, 9-12.	0.6	0
71	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
72	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

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73	Stress relaxation in c âŠ¥ â€“ c // YBaCuO thin films on MgO substrate studied by LACBED. Thin Solid Films, 2000, 368, 142-146.	0.8	1
74	Epitaxial stress study by large angle convergent beam electron diffraction and high-resolution transmission electron microscopy MoirÃ© fringe pattern. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 288, 244-247.	2.6	0
75	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
76	Yttrium oxide thin films, Y2O3, grown by ion beam sputtering on Si. Journal Physics D: Applied Physics, 2000, 33, 2884-2889.	1.3	64
77	Laser deposition of YBaCuO thin films: stress measurements and microstructure investigations. Applied Surface Science, 1999, 138-139, 549-551.	3.1	0
78	Partial Dislocation Source in InSb: A New Mechanism. Physica Status Solidi A, 1999, 171, 59-65.	1.7	7
79	Microstructure imaging of the YBCO thin film/MgO substrate interface: HRTEM and Fourier analysis of the MoirÃ© fringe pattern. Thin Solid Films, 1998, 319, 163-167.	0.8	10
80	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
81	Dislocations in 6H-SiC and their influence on electrical properties of n-type crystals. EPJ Applied Physics, 1998, 2, 111-115.	0.3	8