

Damien Faurie

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89
papers

989
citations

17
h-index

26
g-index

92
ext. papers

1,065
ext. citations

3.4
avg, IF

4.05
L-index

#	Paper	IF	Citations
89	Study of texture effect on elastic properties of Au thin films by X-ray diffraction and in situ tensile testing. <i>Acta Materialia</i> , 2006 , 54, 4503-4513	8.4	62
88	Measurement of the elastic constants of textured anisotropic thin films from x-ray diffraction data. <i>Applied Physics Letters</i> , 2003 , 83, 473-475	3.4	48
87	Development of a synchrotron biaxial tensile device for in situ characterization of thin films mechanical response. <i>Review of Scientific Instruments</i> , 2010 , 81, 103903	1.7	43
86	In situ diffraction strain analysis of elastically deformed polycrystalline thin films, and micromechanical interpretation. <i>Journal of Applied Crystallography</i> , 2009 , 42, 1073-1084	3.8	39
85	Elastic anisotropy of polycrystalline Au films: Modeling and respective contributions of X-ray diffraction, nanoindentation and Brillouin light scattering. <i>Acta Materialia</i> , 2010 , 58, 4998-5008	8.4	35
84	Structural and elastic properties of ternary metal nitrides $Ti_xTa_{1-x}N$ alloys: First-principles calculations versus experiments. <i>Surface and Coatings Technology</i> , 2013 , 215, 199-208	4.4	34
83	Bending strain-tunable magnetic anisotropy in Co_2FeAl Heusler thin film on Kapton. <i>Applied Physics Letters</i> , 2014 , 105, 062409	3.4	34
82	Voltage-induced strain control of the magnetic anisotropy in a Ni thin film on flexible substrate. <i>Journal of Applied Physics</i> , 2013 , 114, 073902	2.5	32
81	Combined synchrotron X-ray and image-correlation analyses of biaxially deformed W/Cu nanocomposite thin films on Kapton. <i>Journal of Applied Crystallography</i> , 2011 , 44, 1071-1079	3.8	32
80	Elastic-strain distribution in metallic film-polymer substrate composites. <i>Applied Physics Letters</i> , 2010 , 96, 041905	3.4	31
79	Synchrotron X-ray diffraction experiments with a prototype hybrid pixel detector. <i>Journal of Applied Crystallography</i> , 2012 , 45, 38-47	3.8	30
78	Yield surface of polycrystalline thin films as revealed by non-equibiaxial loadings at small deformation. <i>Acta Materialia</i> , 2013 , 61, 5067-5077	8.4	26
77	Determination of elastic constants of a fiber-textured gold film by combining synchrotron x-ray diffraction and in situ tensile testing. <i>Journal of Applied Physics</i> , 2005 , 98, 093511	2.5	25
76	Measurement of thin film elastic constants by X-ray diffraction. <i>Thin Solid Films</i> , 2004 , 469-470, 201-205	2.2	21
75	Bulk NiW alloys with a composite-like microstructure processed by spark plasma sintering: Microstructure and mechanical properties. <i>Materials and Design</i> , 2016 , 89, 1181-1190	8.1	19
74	Laue-DIC: a new method for improved stress field measurements at the micrometer scale. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 980-94	2.4	18
73	Comparative study of the mechanical properties of nanostructured thin films on stretchable substrates. <i>Journal of Applied Physics</i> , 2014 , 116, 093504	2.5	17

72	Deformation modes of nanostructured thin film under controlled biaxial deformation. <i>Thin Solid Films</i> , 2013 , 530, 30-34	2.2	17
71	Elastic behavior of polycrystalline thin films inferred from in situ micromechanical testing and modeling. <i>Applied Physics Letters</i> , 2006 , 89, 061911	3.4	16
70	Multicracking and Magnetic Behavior of NiFe Nanowires Deposited onto a Polymer Substrate. <i>Nano Letters</i> , 2018 , 18, 3199-3202	11.5	15
69	Spectroscopic investigation of elastic and magnetoelastic properties of CoFeB thin films. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 145003	3	14
68	Combining ferromagnetic resonator and digital image correlation to study the strain induced resonance tunability in magnetoelectric heterostructures. <i>Review of Scientific Instruments</i> , 2014 , 85, 103905	1.7	14
67	Micro-strip ferromagnetic resonance study of strain-induced anisotropy in amorphous FeCuNbSiB film on flexible substrate. <i>Journal of Applied Physics</i> , 2014 , 116, 123903	2.5	14
66	Structural, static and dynamic magnetic properties of Co ₂ MnGe thin films on a sapphire a-plane substrate. <i>Journal of Applied Physics</i> , 2010 , 108, 063926	2.5	14
65	Ferromagnetic resonance in thin films submitted to multiaxial stress state: application of the uniaxial equivalent stress concept and experimental validation. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 265001	3	13
64	In situ x-ray diffraction analysis of 2D crack patterning in thin films. <i>Acta Materialia</i> , 2019 , 165, 177-182	8.4	13
63	Ferromagnetic resonance investigation of physical origins of modification of the perpendicular magnetic anisotropy in Pd/Co layered films in the presence of hydrogen gas. <i>Journal of Applied Physics</i> , 2017 , 122, 163901	2.5	12
62	Optimization of indirect magnetoelectric effect in thin-film/substrate/piezoelectric-actuator heterostructure using polymer substrate. <i>Applied Physics Letters</i> , 2014 , 105, 052411	3.4	12
61	Structural and elastic properties of single-crystal and polycrystalline Ti _{1-x} Zr _x N alloys: A computational study. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S138-S142	5.7	12
60	Sin ² ψ analysis in thin films using 2D detectors: Non-linearity due to set-up, stress state and microstructure. <i>Thin Solid Films</i> , 2013 , 530, 25-29	2.2	11
59	Static and dynamic study of magnetic properties in FeNi film on flexible substrate, effect of applied stresses. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	11
58	Combining Laue Microdiffraction and Digital Image Correlation for Improved Measurements of the Elastic Strain Field with Micrometer Spatial Resolution. <i>Procedia IUTAM</i> , 2012 , 4, 133-143		11
57	Unambiguous magnetoelastic effect on residual anisotropy in thin films deposited on flexible substrates. <i>Europhysics Letters</i> , 2016 , 114, 17003	1.6	11
56	Fragmentation and adhesion properties of CoFeB thin films on polyimide substrate. <i>Applied Physics Letters</i> , 2017 , 110, 091904	3.4	10
55	In situ monitoring of X-ray strain pole figures of a biaxially deformed ultra-thin film on a flexible substrate. <i>Journal of Applied Crystallography</i> , 2014 , 47, 181-187	3.8	10

54	Large area periodic ferromagnetic nanowires deposited onto a polymer substrate. <i>Applied Physics Letters</i> , 2017 , 111, 052408	3.4	10
53	In situ tailoring of magnetization configuration in NiFe film deposited onto flexible substrate. <i>Journal of Applied Physics</i> , 2012 , 111, 07A926	2.5	10
52	Annealing temperature and thickness dependencies of structural and magnetic properties of Co ₂ FeAl thin films. <i>Physical Review B</i> , 2016 , 94,	3.3	10
51	Effective 90-degree magnetization rotation in Co ₂ FeAl thin film/piezoelectric system probed by microstripline ferromagnetic resonance. <i>Applied Physics Letters</i> , 2015 , 107, 032908	3.4	8
50	Mastering the biaxial stress state in nanometric thin films on flexible substrates. <i>Applied Surface Science</i> , 2014 , 306, 70-74	6.7	8
49	Deposition of ultra-thin gold film on in situ loaded polymeric substrate for compression tests. <i>Materials Letters</i> , 2012 , 73, 99-102	3.3	8
48	Local Stiffness Effect on Ferromagnetic Response of Nanostructure Arrays in Stretchable Systems. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800509	2.5	8
47	Origin of relationship between ferromagnetic response and damage in stretched systems. <i>Scientific Reports</i> , 2018 , 8, 13695	4.9	8
46	Setup for high-temperature surface Brillouin light scattering: Application to opaque thin films and coatings. <i>Review of Scientific Instruments</i> , 2017 , 88, 023903	1.7	7
45	Relaxation mechanisms in a gold thin film on a compliant substrate as revealed by X-ray diffraction. <i>Applied Physics Letters</i> , 2017 , 110, 211901	3.4	7
44	Data on the impact of increasing the W amount on the mass density and compressive properties of Ni-W alloys processed by spark plasma sintering. <i>Data in Brief</i> , 2016 , 7, 1405-8	1.2	7
43	Phase transition signature on elastic constants in Al _{1-x} Cr _x Ny ternary alloys thin films. <i>Applied Physics Letters</i> , 2013 , 103, 041601	3.4	7
42	Controlled biaxial deformation of nanostructured W/Cu thin films studied by X-ray diffraction. <i>Surface and Coatings Technology</i> , 2010 , 205, 1420-1425	4.4	7
41	Elastic properties of polycrystalline gold thin films: Simulation and X-ray diffraction experiments. <i>Surface and Coatings Technology</i> , 2006 , 201, 4300-4304	4.4	7
40	Micromagnetic modeling of nanostructures subject to heterogeneous strain fields. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 355004	3	6
39	Static and dynamic magnetic properties of epitaxial Fe _{1.7} Ge thin films grown on Ge(111). <i>Journal of Applied Physics</i> , 2012 , 111, 07D502	2.5	6
38	Structural and magnetic properties of Co ₂ MnSi thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1328-1333	1.6	6
37	Role of layer order on the equi-biaxial behavior of Al/Mo bilayers. <i>Scripta Materialia</i> , 2021 , 194, 113656	5.6	6

36	TEM study of the indentation behaviour of thin Au film on GaAs. <i>Thin Solid Films</i> , 2004 , 460, 150-155	2.2	5
35	Differentiated Strain-Control of Localized Magnetic Modes in Antidot Arrays. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29906-29915	9.5	5
34	Fracture behavior of Ni-W alloy probed by in situ synchrotron X-ray diffraction. <i>Materials Letters</i> , 2019 , 239, 116-119	3.3	5
33	Magnetic domain-wall motion study under an electric field in a Finemet thin film on flexible substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 373, 259-262	2.8	4
32	Strain ratio effects in mechanical properties of supported thin films. <i>Journal of Applied Physics</i> , 2020 , 127, 105103	2.5	4
31	In situ study of spin waves in thin films deposited onto compliant substrates submitted to external stresses. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 155002	3	4
30	X-ray strain analysis of {111} fiber-textured thin films independent of grain-interaction models. <i>Journal of Applied Crystallography</i> , 2011 , 44, 409-413	3.8	4
29	Prospects toward flexible magnonic systems. <i>Journal of Applied Physics</i> , 2021 , 130, 150901	2.5	4
28	Mechanical properties of CoCrCuFeNi multi-principal element alloy thin films on Kapton substrates. <i>Surface and Coatings Technology</i> , 2020 , 402, 126474	4.4	4
27	X-ray diffraction and stress relaxations to study thermal and stress-assisted annealings in nanocrystalline gold thin films. <i>Acta Materialia</i> , 2019 , 173, 87-95	8.4	3
26	Annealing effect on elastic, magnetic and magnetoelastic properties of CoFeB thin films on polymer substrate. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 455002	3	3
25	X-ray elastic response of metallic thin film supported by polyimide substrates. <i>Journal of Strain Analysis for Engineering Design</i> , 2011 , 46, 639-649	1.3	3
24	Mechanical Properties of Thin Films and Nanometric Multilayers Using Tensile Testing and Synchrotron X-Ray Diffraction. <i>Plasma Processes and Polymers</i> , 2007 , 4, 311-317	3.4	3
23	Local Stiffness Effect on Ferromagnetic Response of Nanostructure Arrays in Stretchable Systems (Phys. Status Solidi RRL 2/2019). <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1970015	2.5	2
22	90° ferroelectric domain switching effect on interfacial strain mediated magnetoelectric coupling. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 145001	3	2
21	X-ray elastic strain analysis of compressed Au thin film on polymer substrate. <i>Surface and Coatings Technology</i> , 2013 , 215, 322-326	4.4	2
20	Non-equibiaxial deformation of W/Cu nanocomposite thin films on stretchable substrate: Effect of loading path. <i>Thin Solid Films</i> , 2013 , 549, 239-244	2.2	2
19	Time resolved synchrotron x-ray strain measurements of gold thin film on flexible substrate. <i>Thin Solid Films</i> , 2011 , 520, 1603-1607	2.2	2

18	Strains, Stresses and Elastic Properties in Polycrystalline Metallic Thin Films: In Situ Deformation Combined with X-Ray Diffraction and Simulation Experiments. <i>Materials Science Forum</i> , 2006 , 524-525, 735-740	0.4	2
17	Study of texture effect on elastic properties of Au thin films by x-ray diffraction and Brillouin light scattering. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012170	0.3	2
16	Lattice Strain Evolutions in Ni-W Alloys during a Tensile Test Combined with Synchrotron X-ray Diffraction. <i>Materials</i> , 2020 , 13,	3.5	2
15	Effects of Heterogeneous Strain on the Magnetization Processes in Magnetic Nanomembranes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100149	2.5	2
14	Evolution under annealing and nitrogen implantation of the mechanical properties of amorphous carbon films. <i>Thin Solid Films</i> , 2005 , 482, 318-323	2.2	1
13	Elastic behavior of fibre-textured gold films by combining synchrotron X-ray diffraction and in-situ tensile testing. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 875, 1		1
12	A review on nanostructured thin films on flexible substrates: links between strains and magnetic properties. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	1
11	Nano-structuration effect on the mechanical behavior of gold thin films studied by 2D synchrotron x-ray diffraction. <i>Surface and Coatings Technology</i> , 2016 , 308, 418-423	4.4	1
10	Strain ratio and thickness effects on plasticity and crack patterns of Nickel thin films. <i>Scripta Materialia</i> , 2022 , 213, 114638	5.6	1
9	Film thickness and architecture effects in biaxially strained polymer supported Al/Mo bilayers. <i>Materials Today Communications</i> , 2022 , 31, 103455	2.5	1
8	Mechanical properties of Li ₂ MoO ₄ single crystals. <i>Journal of Applied Physics</i> , 2022 , 131, 175102	2.5	1
7	Effect of composition and nanostructure on the mechanical properties and thermal stability of Zr _{100-x} Cu _x thin film metallic glasses. <i>Materials and Design</i> , 2022 , 110752	8.1	1
6	Peculiar effective elastic anisotropy of nanometric multilayers studied by surface Brillouin scattering. <i>Superlattices and Microstructures</i> , 2015 , 88, 551-560	2.8	
5	Time-Resolved X-Ray Stress Analysis in Multilayered Thin Films during Continuous Loading: Use of 2D Remote Detection. <i>Advanced Materials Research</i> , 2014 , 996, 878-883	0.5	
4	X-ray strain analysis in thin films enhanced by 2D detection. <i>EPJ Web of Conferences</i> , 2010 , 6, 26008	0.3	
3	Development of a biaxial tensile module at synchrotron beamline for the study of mechanical properties of nanostructured films. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1224, 1		
2	Measurement of applied strains in thin films deposited onto polymer by synchrotron X-ray diffraction. <i>Procedia Engineering</i> , 2011 , 10, 2701-2706		
1	Machine biaxiale sur la ligne de lumière Diffabs pour l'étude des propriétés mécaniques de films minces déposés sur substrats polymères. <i>Materiaux Et Techniques</i> , 2015 , 103, 610	0.6	

