List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	LaueNN: neural-network-based <i>hkl</i> recognition of Laue spots and its application to polycrystalline materials. Journal of Applied Crystallography, 2022, 55, 737-750.	4.5	5
2	Inâ€situ force measurement during nanoâ€indentation combined with Laue microdiffraction. Nano Select, 2021, 2, 99-106.	3.7	2
3	Simultaneous Multi-Bragg Peak Coherent X-ray Diffraction Imaging. Crystals, 2021, 11, 312.	2.2	6
4	First stages of plasticity in three-point bent Au nanowires detected by in situ Laue microdiffraction. Applied Physics Letters, 2020, 116, 243101.	3.3	1
5	Validity of Crystal Plasticity Models Near Grain Boundaries: Contribution of Elastic Strain Measurements at Micron Scale. Jom, 2019, 71, 3543-3551.	1.9	5
6	Carbon Monoxide Oxidation Promoted by a Highly Active Strained PdO Layer at the Surface of Au30Pd70(110). ACS Catalysis, 2019, 9, 4448-4461.	11.2	4
7	Local strain redistribution in a coarse-grained nickel-based superalloy subjected to shot-peening, fatigue or thermal exposure investigated using synchrotron X-ray Laue microdiffraction. Journal of Materials Science, 2018, 53, 8567-8589.	3.7	5
8	Evidence of 3D strain gradients associated with tin whisker growth. Scripta Materialia, 2018, 144, 1-4.	5.2	21
9	High stresses stored in fault zones: example of the Nojima fault (Japan). Solid Earth, 2018, 9, 505-529.	2.8	3
10	Three-point bending behavior of a Au nanowire studied by <i>in-situ</i> Laue micro-diffraction. Journal of Applied Physics, 2018, 124, .	2.5	5
11	Oxygen-Induced Changes of the Au ₃₀ Pd ₇₀ (110) Surface Structure and Composition under Increasing O ₂ Pressure. Journal of Physical Chemistry C, 2018, 122, 22588-22596.	3.1	9
12	Plasticity in inhomogeneously strained Au nanowires studied by Laue microdiffraction. MRS Advances, 2018, 3, 2331-2339.	0.9	0
13	Direct measurement of local constitutive relations, at the micrometre scale, in bulk metallic alloys. Journal of Applied Crystallography, 2017, 50, 940-948.	4.5	7
14	Influence of Palladium on the Ordering, Final Size, and Composition of Pd–Au Nanoparticle Arrays. Journal of Physical Chemistry C, 2017, 121, 25864-25874.	3.1	7
15	Full elastic strain tensor determination at the phase scale in a powder metallurgy nickel-based superalloy using X-ray Laue microdiffraction. Journal of Applied Crystallography, 2017, 50, 1754-1765.	4.5	1
16	Lattice strain and tilt mapping in stressed Ge microstructures using X-ray Laue micro-diffraction and rainbow filtering. Journal of Applied Crystallography, 2016, 49, 1402-1411.	4.5	17
17	Integrated experimental and computational approach for residual stress investigation near through-silicon vias. Journal of Applied Physics, 2016, 120, 195104.	2.5	9
18	KB scanning of X-ray beam for Laue microdiffraction on accelero-phobic samples: application to <i>in situ</i> mechanically loaded nanowires. Journal of Synchrotron Radiation, 2016, 23, 1395-1400.	2.4	10

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19	Analysis of the full stress tensor in a micropillar: Ability of and difficulties arising during synchrotron based μLaue diffraction. Materials and Design, 2016, 108, 68-75.	7.0	12
20	In-situ X-ray μLaue diffraction study of copper through-silicon vias. Microelectronics Reliability, 2016, 56, 78-84.	1.7	2
21	On the Accuracy of Elastic Strain Field Measurements by Laue Microdiffraction and High-Resolution EBSD: a Cross-Validation Experiment. Experimental Mechanics, 2016, 56, 483-492.	2.0	31
22	The Nature and Origin of "Double Expanded Austenite―in Ni-Based Ni-Ti Alloys Developing Upon Low Temperature Gaseous Nitriding. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4115-4131.	2.2	16
23	Laue-DIC: a new method for improved stress field measurements at the micrometer scale. Journal of Synchrotron Radiation, 2015, 22, 980-994.	2.4	23
24	<i>In situ</i> bending of an Au nanowire monitored by micro Laue diffraction. Journal of Applied Crystallography, 2015, 48, 291-296.	4.5	34
25	La microdiffraction Laue. , 2015, , 68-71.	0.1	0
26	Asymmetric grazing incidence small angle x-ray scattering and anisotropic domain wall motion in obliquely grown nanocrystalline Co films. Nanotechnology, 2014, 25, 335704.	2.6	18
27	X-ray μ-Laue diffraction analysis of Cu through-silicon vias: A two-dimensional and three-dimensional study. Journal of Applied Physics, 2014, 116, 163509.	2.5	8
28	Laue Microdiffraction at the ESRF. , 2014, , 156-204.		2
29	Local band bending and grain-to-grain interaction induced strain nonuniformity in polycrystalline CdTe films. Physical Review B, 2014, 89, .	3.2	19
30	<i>In-situ</i> observation of stress-induced stochastic twin boundary motion in off stoichiometric NiMnGa single crystals. Applied Physics Letters, 2013, 103, 021909.	3.3	9
31	A tunable multicolour `rainbow' filter for improved stress and dislocation density field mapping in polycrystals using X-ray Laue microdiffraction. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, 164-170.	0.3	27
32	Interface effects on Gd induced disordering of Co films on Pt(111). Surface Science, 2012, 606, 933-937.	1.9	1
33	Combining Laue Microdiffraction and Digital Image Correlation for Improved Measurements of the Elastic Strain Field with Micrometer Spatial Resolution. Procedia IUTAM, 2012, 4, 133-143.	1.2	11
34	Catalytic properties of supported gold nanoparticles: new insights into the size-activity relationship gained from in operando measurements. Faraday Discussions, 2011, 152, 253.	3.2	23
35	Size and Catalytic Activity of Supported Gold Nanoparticles: An in Operando Study during CO Oxidation. Journal of Physical Chemistry C, 2011, 115, 4673-4679.	3.1	132
36	Full local elastic strain tensor from Laue microdiffraction: simultaneous Laue pattern and spot energy measurement. Journal of Applied Crystallography, 2011, 44, 688-696.	4.5	30

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37	Twins and their boundaries during homoepitaxy on Ir(111). Physical Review B, 2011, 83, .	3.2	5
38	A new white beam x-ray microdiffraction setup on the BM32 beamline at the European Synchrotron Radiation Facility. Review of Scientific Instruments, 2011, 82, 033908.	1.3	78
39	Structure and growth kinetics of the oxidation process of Fe(001) whisker surfaces over a 10-decade pressure range. Surface Science, 2010, 604, 1840-1844.	1.9	0
40	Stress field in deformed polycrystals at the micron scale. EPJ Web of Conferences, 2010, 6, 35005.	0.3	0
41	Recent developments in white and monochromatic X-ray microdiffraction. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s100-s101.	0.3	0
42	Looking by grazing incidence small angle x-ray scattering at gold nanoparticles supported on rutile TiO2(110) during CO oxidation. Gold Bulletin, 2008, 41, 159-166.	2.7	13
43	Stacking dependent disordering processes in Gd/Co/Pt(111) studied with surface x-ray diffraction. Physical Review B, 2008, 78, .	3.2	3
44	Following growth and catalytic reaction of oxide-supported metal nanoparticles with GISAXS. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C17-C18.	0.3	0
45	Strain and Shape of Epitaxial InAs/InP Nanowire Superlattice Measured by Grazing Incidence X-ray Techniques. Nano Letters, 2007, 7, 2596-2601.	9.1	57
46	Thickness-related instability of Cu thin films on Ag(100). Physica B: Condensed Matter, 2005, 357, 152-158.	2.7	6
47	Pd8Ni92(110) surface structure from surface X-ray diffraction. Surface evolution under hydrogen and butadiene reactants at elevated pressure. Surface Science, 2005, 587, 229-235.	1.9	32
48	Low-temperature growth favours hcp structure, flatness and perpendicular magnetic anisotropy of thin (1–5 nm) Co films on Pt(111). Journal of Physics Condensed Matter, 2005, 17, 5551-5561.	1.8	8
49	Stress and structure ofc(2×2)andp2gg(4×2)Mnâ^•Cu(001)surface alloys. Physical Review B, 2005, 71, .	3.2	19
50	Structure and Reactivity of Surface Oxides on Pt(110) during Catalytic CO Oxidation. Physical Review Letters, 2005, 95, 255505.	7.8	327
51	Layer relaxation and intermixing inFeâ^•Cu(001)studied by surface x-ray diffraction. Physical Review B, 2005, 71, .	3.2	26
52	The surface structure of model catalyst in action investigated by X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c8-c8.	0.3	0
53	Structural and magnetic properties of bcc Co films on Pt(001) studied by magnetic resonant surface x-ray diffraction, STM, and magneto-optical Kerr effect. Physical Review B, 2004, 70, .	3.2	22
54	Spin Reorientation and Structural Relaxation of Atomic Layers: Pushing the Limits of Accuracy. Physical Review Letters, 2004, 93, 156105.	7.8	18

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55	Hydrogenation of carbon monoxide on Ni(111) investigated with surface X-ray diffraction at atmospheric pressure. Surface Science, 2004, 557, 21-30.	1.9	33
56	Structure and Pt magnetism of FePt nanoparticles investigated with X-ray diffraction. Journal of Magnetism and Magnetic Materials, 2003, 264, 202-208.	2.3	15
57	Compressibility of CO adsorbed on Ni from 10â^'6 mbar to 1.2 bar ambient CO pressures investigated with X-ray diffraction. Surface Science, 2003, 522, 161-166.	1.9	27
58	Ultrathin Pt films on Ni(111): Structure determined by surface x-ray diffraction. Physical Review B, 2003, 68, .	3.2	7
59	Ni-induced giant stress and surface relaxation in W(110). Physical Review B, 2003, 67, .	3.2	19
60	Stacking reversal as a source of perpendicular magnetic anisotropy in Ni-Pt multilayers. Physical Review B, 2003, 67, .	3.2	11
61	Surface x-ray structure analysis of periodic misfit dislocations in Fe/W(110). Physical Review B, 2003, 68, .	3.2	41
62	Magnetic anisotropy of submonolayer Pt films grown on Ni(110). Journal of Physics Condensed Matter, 2003, 15, 4279-4285.	1.8	1
63	Magnetic anisotropy of ultrathin cobalt films on $Pt(111)$ investigated with x-ray diffraction:â $\in f$ Effect of atomic mixing at the interface. Physical Review B, 2002, 65, .	3.2	38
64	The interaction of gas molecules at atmospheric pressures with surfaces investigated with surface X-ray diffraction. Surface Science, 2001, 482-485, 101-106.	1.9	7
65	Oxygen-induced stress-modified reconstructions of the Ta(110)/Al2O3(11â^20) surface: a surface X-ray diffraction study. Surface Science, 2001, 492, 41-54.	1.9	3
66	Adsorption of Carbon Monoxide on Ni(110) Above Atmospheric Pressure Investigated with Surface X-Ray Diffraction. Physical Review Letters, 2001, 86, 5325-5328.	7.8	48
67	Corrections for surface X-ray diffraction measurements using the <i>Z</i> -axis geometry: finite size effects in direct and reciprocal space. Journal of Applied Crystallography, 2000, 33, 1006-1018.	4.5	47
68	A new UHV diffractometer for surface structure and real time molecular beam deposition studies with synchrotron radiations at ESRF. Nuclear Instruments & Methods in Physics Research B, 1999, 149, 213-227.	1.4	58
69	What can we learn on the structure and morphology of metal oxide/metal interfaces by measurement of X-ray crystal truncation rods in situ, during growth. Faraday Discussions, 1999, 114, 157-172.	3.2	13
70	Structure and morphology of the Ag/MgO(001) interface duringin situgrowth at room temperature. Physical Review B, 1999, 60, 5858-5871.	3.2	103
71	Growth, structure, and morphology of the Pd/MgO(001) interface: Epitaxial site and interfacial distance. Physical Review B, 1999, 60, 5872-5882.	3.2	74
72	Very-high-quality MgO(001) surfaces: roughness, rumpling and relaxation. Surface Science, 1998, 401, 227-235.	1.9	97

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73	Growth, annealing and oxidation of the Ni/MgO (001) interface studied by grazing incidence x-ray scattering. Journal of Applied Physics, 1998, 84, 4259-4267.	2.5	31
74	InÂSitu Grazing Incidence X-ray Scattering Study of the Epitaxial Growth of Ag on MgO(001). Surface Review and Letters, 1998, 05, 359-362.	1.1	12
75	Étude de la croissance de l'interface Ni/MgO(001) par diffraction de rayons X en incidence rasante. European Physical Journal Special Topics, 1998, 08, Pr4-221-Pr4-226.	0.2	0
76	La diffraction de rayons X en incidence rasante à l'ESRF : application à l'étude de surfaces et d'interfaces à base d'oxydes. European Physical Journal Special Topics, 1998, 08, Pr5-203-Pr5-213.	0.2	0
77	Présentation des possibilités de la diffraction de surface en ultra-vide sur les lignes françaises Ã l'ESRF. European Physical Journal Special Topics, 1996, 06, C4-341-C4-349.	0.2	0