

Luca Lutterotti

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

5,771

citations

28

h-index

75

g-index

94

ext. papers

6,501

ext. citations

3.1

avg, IF

5.86

L-index

#	Paper	IF	Citations
88	Crystallography Open Database - an open-access collection of crystal structures. <i>Journal of Applied Crystallography</i> , 2009 , 42, 726-729	3.8	801
87	Total pattern fitting for the combined size-strain-stress-texture determination in thin film diffraction. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 334-340	1.2	705
86	Crystallography Open Database (COD): an open-access collection of crystal structures and platform for world-wide collaboration. <i>Nucleic Acids Research</i> , 2012 , 40, D420-7	20.1	572
85	Simultaneous structure and size-strain refinement by the Rietveld method. <i>Journal of Applied Crystallography</i> , 1990 , 23, 246-252	3.8	521
84	Texture, residual stress and structural analysis of thin films using a combined X-ray analysis. <i>Thin Solid Films</i> , 2004 , 450, 34-41	2.2	334
83	Method for the simultaneous determination of anisotropic residual stresses and texture by x-ray diffraction. <i>Journal of Applied Physics</i> , 1994 , 76, 7246-7255	2.5	278
82	X-ray diffraction characterization of heavily deformed metallic specimens. <i>Acta Materialia</i> , 1998 , 46, 1018-1020	1.0	268
81	LSI- a computer program for simultaneous refinement of material structure and microstructure. <i>Journal of Applied Crystallography</i> , 1992 , 25, 459-462	3.8	206
80	Quantitative Analysis of Silicate Glass in Ceramic Materials by the Rietveld Method. <i>Materials Science Forum</i> , 1998 , 278-281, 87-92	0.4	164
79	In situ observation of texture evolution during β - and β' -phase transformations in titanium alloys investigated by neutron diffraction. <i>Acta Materialia</i> , 2007 , 55, 5718-5727	8.4	145
78	Rietveld texture analysis from TOF neutron diffraction data. <i>Powder Diffraction</i> , 2010 , 25, 283-296	1.8	140
77	Texture measurements using the new neutron diffractometer HIPPO and their analysis using the Rietveld method. <i>Powder Diffraction</i> , 2004 , 19, 65-68	1.8	104
76	Advances in Texture Analysis from Diffraction Spectra. <i>Journal of Applied Crystallography</i> , 1997 , 30, 31-42	3.8	102
75	Quantitative texture analysis with the HIPPO neutron TOF diffractometer. <i>Journal of Applied Crystallography</i> , 2005 , 38, 462-475	3.8	93
74	Rietveld texture analysis from synchrotron diffraction images. I. Calibration and basic analysis. <i>Powder Diffraction</i> , 2014 , 29, 76-84	1.8	89
73	Texture analysis from synchrotron diffraction images with the Rietveld method: dinosaur tendon and salmon scale. <i>Journal of Synchrotron Radiation</i> , 2005 , 12, 354-60	2.4	88
72	Microstructural and kinetic aspects of the transformations induced in a FeAl alloy by ball-milling and thermal treatments. <i>Acta Materialia</i> , 1998 , 46, 3305-3316	8.4	78

71	Quantitative Rietveld texture analysis of zirconium from single synchrotron diffraction images. <i>Journal of Applied Crystallography</i> , 2005 , 38, 377-380	3.8	78
70	Rietveld texture analysis from synchrotron diffraction images. II. Complex multiphase materials and diamond anvil cell experiments. <i>Powder Diffraction</i> , 2014 , 29, 220-232	1.8	72
69	Texture Analysis from Diffraction Spectra. <i>Materials Science Forum</i> , 1994 , 157-162, 473-480	0.4	55
68	Texture analysis of a turbostratically disordered Ca-montmorillonite. <i>American Mineralogist</i> , 2010 , 95, 98-103	2.9	50
67	Modified thick thermal barrier coatings: microstructural characterization. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 2247-2258	6	48
66	ReX: a computer program for structural analysis using powder diffraction data. <i>Journal of Applied Crystallography</i> , 2009 , 42, 538-539	3.8	43
65	Rietveld texture analysis of Dabie Shan eclogite from TOF neutron diffraction spectra. <i>Journal of Applied Crystallography</i> , 2001 , 34, 442-453	3.8	42
64	Sol-Gel Synthesis and Characterisation of TiO ₂ -Anatase Powders Containing Nanometric Platinum Particles Employed as Catalysts for 4-Nitrophenol Photodegradation. <i>Journal of Sol-Gel Science and Technology</i> , 2000 , 18, 29-59	2.3	40
63	Quantitative Texture Analysis of Spark Plasma Textured n-Bi ₂ Te ₃ . <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2038-2045	3.8	35
62	Microstructural characterization of plasma-sprayed zirconia thermal barrier coatings by X-ray diffraction full pattern analysis. <i>Surface and Coatings Technology</i> , 1993 , 61, 52-59	4.4	32
61	Wear debris from brake system materials: A multi-analytical characterization approach. <i>Tribology International</i> , 2016 , 94, 249-259	4.9	31
60	Thermal Expansion Anisotropy of Ceria-Stabilized Tetragonal Zirconia. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 2828-2832	3.8	28
59	Combining XRD and XRF analysis in one Rietveld-like fitting. <i>Powder Diffraction</i> , 2017 , 32, S225-S230	1.8	23
58	Textured Al-doped ZnO ceramics with isotropic grains. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 4247-4256	6	21
57	X-Ray Combined QTA Using a CPS Applied to a Ferroelectric Ultrastructure. <i>Materials Science Forum</i> , 2002 , 408-412, 113-118	0.4	21
56	Structural, mechanical and magnetic properties of nanostructured FeAl alloys during disordering and thermal recovery. <i>Scripta Materialia</i> , 1999 , 11, 689-695		21
55	Full-profile search-match by the Rietveld method. <i>Journal of Applied Crystallography</i> , 2019 , 52, 587-598	3.8	21
54	The correlation between gate dielectric, film growth, and charge transport in organic thin film transistors: the case of vacuum-sublimed tetracene thin films. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 967-976	7.1	19

53	Modeling Solidification Microstructures of Steel Round Billets Obtained by Continuous Casting. <i>ISIJ International</i> , 2011 , 51, 1448-1453	1.7	19
52	Voyaging around nacre with the X-ray shuttle: From bio-mineralisation to prosthetics via mollusc phylogeny. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 37-51	5.3	18
51	Rietveld Texture and Stress Analysis of Thin Films by X-Ray Diffraction. <i>Materials Science Forum</i> , 2002 , 408-412, 1603-1608	0.4	18
50	XRD characterization of multilayered systems. <i>Thin Solid Films</i> , 1993 , 236, 130-134	2.2	18
49	Raman Open Database: first interconnected Raman-X-ray diffraction open-access resource for material identification. <i>Journal of Applied Crystallography</i> , 2019 , 52, 618-625	3.8	18
48	Mineralogical investigations using XRD, XRF, and Raman spectroscopy in a combined approach. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1023-1030	2.3	15
47	Growth and texture of spark plasma sintered Al ₂ O ₃ ceramics: A combined analysis of X-rays and electron back scatter diffraction. <i>Journal of Applied Physics</i> , 2013 , 113, 153510	2.5	15
46	Synthesis, Characterization and Photocatalytic Activity of TiO ₂ Powders Prepared Under Different Gelling and Pressure Conditions. <i>Journal of Sol-Gel Science and Technology</i> , 2005 , 33, 201-213	2.3	15
45	Combined X-ray Texture-Structure-Microstructure Analysis Applied to Ferroelectric Ultrastructures: A Case Study on Pb 0.76 Ca 0.24 TiO ₃ . <i>Ferroelectrics</i> , 2002 , 267, 323-328	0.6	15
44	Combined X-ray diffraction and fluorescence analysis in the cultural heritage field. <i>Microchemical Journal</i> , 2016 , 126, 423-430	4.8	14
43	X-ray textural and microstructural characterisations by using the Combined Analysis Approach for the optical optimisation of micro- and nano-structured thin films. <i>Thin Solid Films</i> , 2009 , 517, 6264-6270	2.2	14
42	Quantitative texture analysis of glaucophanite deformed under eclogite facies conditions (Sesia-Lanzo Zone, Western Alps): comparison between X-ray and neutron diffraction analysis. <i>Geological Society Special Publication</i> , 2002 , 200, 239-253	1.7	13
41	Diffraction Methods for the Characterisation of Defects in Intermetallic Compounds. <i>Materials Science Forum</i> , 1996 , 228-231, 551-556	0.4	13
40	Advances in exploiting preferred orientation in the structure analysis of polycrystalline materials. <i>Journal of Applied Crystallography</i> , 2013 , 46, 173-180	3.8	11
39	Ambipolar organic thin film transistors based on a soluble pentacene derivative. <i>Applied Physics Letters</i> , 2011 , 99, 023304	3.4	11
38	Kinetics of Reordering in A Nanograined FeAl Alloy. <i>Materials Science Forum</i> , 1996 , 235-238, 415-420	0.4	11
37	Characterization of epitaxial SrTiO ₃ /YBa ₂ Cu ₃ O ₇ layers deposited on (001) MgO by laser ablation. <i>Journal of Materials Research</i> , 1993 , 8, 2780-2784	2.5	11
36	Study of annealing-induced interdiffusion in In ₂ O ₃ /Ag/In ₂ O ₃ structures by a combined X-ray reflectivity and grazing incidence X-ray fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015 , 113, 132-137	3.1	10

35	Microstructural Characterisation of Amorphous and Nanocrystalline Structures Through Diffraction Methods. <i>Materials Science Forum</i> , 2000 , 343-346, 657-664	0.4	10
34	Microstructure and hardness of a nanostructured Fe-40Al at% alloy. <i>Scripta Materialia</i> , 1999 , 12, 801-806		10
33	Structural analysis of strained LaVO ₃ thin films. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 175001	1.8	9
32	Preferred orientation of ettringite in concrete fractures. <i>Journal of Applied Crystallography</i> , 2009 , 42, 429-432	3.8	9
31	Pyrolysis pathway of sol-gel derived organic/inorganic hybrid nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2003 , 322, 22-28	3.9	8
30	Influence of Crystallite Size and Microstrain on Structure Refinement. <i>Materials Science Forum</i> , 1991 , 79-82, 233-238	0.4	8
29	Thermal Stresses in Bi-Coated Structures. <i>Journal of Engineering Mechanics - ASCE</i> , 1992 , 118, 1928-1938	2.4	8
28	Quantitative 3D microstructural analysis of naturally deformed amphibolite from the Southern Alps (Italy): microstructures, CPO and seismic anisotropy from a fossil extensional margin. <i>Geological Society Special Publication</i> , 2015 , 409, 201-222	1.7	6
27	New Opportunities in the Texture and Stress Field by the Whole Pattern Analysis. <i>Materials Science Forum</i> , 1996 , 228-231, 83-88	0.4	6
26	Characterization of nanograined powder samples using the Rietveld method applied to electron diffraction ring patterns. <i>Powder Diffraction</i> , 2017 , 32, S63-S68	1.8	5
25	Particle anisotropy and crystalline phase transition in one-pot synthesis of nano-zirconia: a causal relationship. <i>CrystEngComm</i> , 2018 , 20, 879-888	3.3	5
24	Materials and technological aspects of gilded buckles from a North Eastern Medieval Italian context. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 113, 1101-1108	2.6	5
23	Magnetic and X-Ray Diffraction Investigations of the Reordering of a Ball Milled Fe-40Al at% Alloy. <i>Materials Science Forum</i> , 1998 , 269-272, 637-642	0.4	5
22	Thermoanalytical Characterization of a Nanograined Fe-40Al Alloy. <i>Materials Science Forum</i> , 1996 , 225-227, 395-400	0.4	5
21	Application of the Rietveld Method to Phase Analysis of Multilayered Systems. <i>Materials Science Forum</i> , 1993 , 133-136, 57-62	0.4	5
20	Preferred Orientation Contribution to the Anisotropic Normal State Resistivity in Superconducting Melt-Cast Processed Bi _{1.8} Br _{0.2} TaCuO ₈ . <i>Materials</i> , 2017 , 10,	3.5	4
19	Reaction-sintering of intermetallic alloys of the Ni ₃ AlMo system. <i>Intermetallics</i> , 2000 , 8, 279-286	3.5	4
18	Thermal analysis of plasma-sprayed thermal barrier coatings. <i>Thermochimica Acta</i> , 1993 , 227, 9-18	2.9	4

17	Structural and morphological phase control by supersonic beams on titanyl phthalocyanine: An investigation on the growth. <i>Organic Electronics</i> , 2016 , 32, 15-20	3.5	3
16	Brittle plus plastic deformation of gypsum aggregates experimentally deformed in torsion to high strains: quantitative microstructural and texture analysis from optical and diffraction data. <i>Geological Society Special Publication</i> , 2010 , 332, 79-98	1.7	3
15	Microstructural Characterisation of Metastable Structures in Intermetallic Compounds. <i>Materials Science Forum</i> , 1998 , 269-272, 373-378	0.4	3
14	On the measure of order in alloys. <i>Progress in Materials Science</i> , 1997 , 42, 125-133	42.2	2
13	Rietveld texture analysis by neutron diffraction of highly absorbing materials. <i>Powder Diffraction</i> , 2006 , 21, 114-117	1.8	2
12	Reaction sintering of Fe-Al-Si alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 2002 , 23, 72-78		2
11	Quantitative Texture Analysis with the HIPPO TOF Diffractometer. <i>Materials Science Forum</i> , 2005 , 495-497, 113-118	0.4	2
10	Defect Structures in Ball-Milled Intermetallic Powders. <i>Materials Science Forum</i> , 1995 , 179-181, 59-64	0.4	2
9	Rietveld Refinement Using Debye-Scherrer Film Techniques. <i>Materials Science Forum</i> , 1996 , 228-231, 29-34	0.4	2
8	Powder diffraction. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		2
7	Crystallography Open Database: History, Development, and Perspectives 2019 , 1-39		1
6	Quantitative Phase Analysis: Method Developments. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2012 , 233-242	0.2	1
5	Characterization of Microstructure and Crystallographic Texture of Silicate and Phyllosilicate Ceramics. <i>Advances in Science and Technology</i> , 2010 , 68, 13-22	0.1	1
4	Avoiding Surface and Absorption Effects in XRD Quantitative Phase Analysis. <i>Materials Science Forum</i> , 1998 , 278-281, 69-74	0.4	1
3	Thermal Behaviour of Monoclinic Zirconia at Low Temperature by XRPD Full Pattern Analysis. <i>Materials Science Forum</i> , 1994 , 166-169, 495-500	0.4	1
2	Combined XRD-XRF cluster analysis for automatic chemical and crystallographic surface mappings. <i>Powder Diffraction</i> , 2019 , 34, S36-S41	1.8	0
1	Texture Characterisation of a Porphyroblastic Pyrope. <i>Materials Science Forum</i> , 1994 , 166-169, 731-736	0.4	