Paolo Scardi

List of Publications by Year
in descending order

380 papers	10,626 citations	76196 40 h-index	45213 90 g-index
396 all docs	396 docs citations	396 times ranked	10422 citing authors

#	Article	IF	Citations
1	Rietveld refinement guidelines. Journal of Applied Crystallography, 1999, 32, 36-50.	1.9	1,781
2	Simultaneous structure and sizeâ€“strain refinement by the Rietveld method. Journal of Applied Crystallography, 1990, 23, 246-252.	1.9	636
3	Whole powder pattern modelling. Acta Crystallographica Section A: Foundations and Advances, 2002, 58, 190-200.	0.3	471
4	Line broadening analysis using integral breadth methods: a critical review. Journal of Applied Crystallography, 2004, 37, 381-390.	1.9	330
5	Effect of a crystallite size distribution on X-ray diffraction line profiles and whole-powder-pattern fitting. Journal of Applied Crystallography, 2000, 33, 964-974.	1.9	301
6	LSI- a computer program for simultaneous refinement of material structure and microstructure. Journal of Applied Crystallography, 1992, 25, 459-462.	1.9	238
7	Absorption coefficient of bulk and thin film Cu2O. Solar Energy Materials and Solar Cells, 2011, 95, 2848-2854.	3.0	195
8	PM2K: a flexible program implementing Whole Powder Pattern Modelling. Zeitschrift FÃ¼r Kristallographie, Supplement, 2006, 2006, 249-254.	0.5	195
9	Diffraction line profiles from polydisperse crystalline systems. Acta Crystallographica Section A: Foundations and Advances, 2001, 57, 604-613.	0.3	190
10	Solar photoactivity of nano-N-TiO2 from tertiary amine: role of defects and paramagnetic species. Applied Catalysis B: Environmental, 2010, 96, 314-322.	10.8	167
11	CZTS stoichiometry effects on the band gap energy. Journal of Alloys and Compounds, 2014, 582, 528-534.	2.8	146
12	Reverse bending fatigue of shot peened 7075-T651 aluminium alloy: The role of residual stress relaxation. International Journal of Fatigue, 2009, 31, 1225-1236.	2.8	137
13	Thermal Diffusivity/Microstructure Relationship in Y-PSZ Thermal Barrier Coatings. Journal of Thermal Spray Technology, 1999, 8, 102-109.	1.6	120
14	Line profile analysis: pattern modellingversusprofile fitting. Journal of Applied Crystallography, 2006, 39, 24-31.	1.9	115
15	Fourier modelling of the anisotropic line broadening of X-ray diffraction profiles due to line and plane lattice defects. Journal of Applied Crystallography, 1999, 32, 671-682.	1.9	107
16	MCX: a Synchrotron Radiation Beamline for Xâ€ray Diffraction Line Profile Analysis. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 3100-3106.	0.6	103
17	Morphology, structure and chemistry of extracted diesel sootâ€”Part I: Transmission electron microscopy, Raman spectroscopy, X-ray photoelectron spectroscopy and synchrotron X-ray diffraction study. Tribology International, 2012, 52, 29-39.	3.0	100
18	Thermophysical, mechanical and microstructural characterization of aged free-standing plasma-sprayed zirconia coatings. Acta Materialia, 2008, 56, 4477-4488.	3.8	84

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19	Experimental determination of the instrumental broadening in the Braggâ€“Brentano geometry. Powder Diffraction, 1994, 9, 180-186.	0.4	79
20	Dislocation effects in powder diffraction. Journal of Applied Crystallography, 2007, 40, 719-724.	1.9	79
21	Nanocrystalline domain size distributions from powder diffraction data. Journal of Applied Crystallography, 2004, 37, 629-634.	1.9	78
22	Xâ€ray Diffraction Methodology for the Microstructural Analysis of Nanocrystalline Powders: Application to Cerium Oxide. Journal of the American Ceramic Society, 2004, 87, 1133-1140.	1.9	77
23	The potential of polyurethane bio-based solid polymer electrolyte for photoelectrochemical cell application. International Journal of Hydrogen Energy, 2014, 39, 3005-3017.	3.8	76
24	Dry and wet corrosion behaviour of AISI 304 stainless steel coated by sol-gel ZrO2î—¸CeO2 films. Thin Solid Films, 1996, 286, 127-135.	0.8	75
25	About the Nitrogen Location in Nanocrystalline N-Doped TiO₂: Combined DFT and EXAFS Approach. Journal of Physical Chemistry C, 2012, 116, 1764-1771.	1.5	74
26	Phase stability of scandiaâ€“yttria-stabilized zirconia TBCs. Surface and Coatings Technology, 1998, 108-109, 107-113.	2.2	73
27	Nitrogen doped Cu2O: A possible material for intermediate band solar cells?. Solar Energy Materials and Solar Cells, 2012, 105, 192-195.	3.0	67
28	(Ti,Cr)N and Ti/TiN PVD coatings on 304 stainless steel substrates: Texture and residual stress. Thin Solid Films, 1999, 345, 263-269.	0.8	58
29	MarqX: a new program for whole-powder-pattern fitting. Journal of Applied Crystallography, 2000, 33, 184-189.	1.9	57
30	Residual stresses in HVOF-sprayed ceramic coatings. Surface and Coatings Technology, 2008, 202, 4810-4819.	2.2	57
31	WPPM: Microstructural Analysis beyond the Rietveld Method. Materials Science Forum, 0, 651, 155-171.	0.3	56
32	Modeling of the planetary ball-milling process: The case study of ceramic powders. Journal of the European Ceramic Society, 2016, 36, 2205-2212.	2.8	56
33	Residual stresses in plasma sprayed partially stabilised zirconia TBCs: influence of the deposition temperature. Thin Solid Films, 1996, 278, 96-103.	0.8	52
34	A general approach for determining the diffraction contrast factor of straight-line dislocations. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, 109-119.	0.3	52
35	Whole diffraction pattern-fitting of polycrystalline fcc materials based on microstructure. European Physical Journal B, 2000, 18, 23-30.	0.6	51
36	(Ti,Cr)N and Ti/TiN PVD coatings on 304 stainless steel substrates: wear-corrosion behaviour. Thin Solid Films, 1999, 350, 161-167.	0.8	50

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37	Disorder effects in ion-implanted niobium thin films. Physical Review B, 1985, 31, 3121-3123.	1.1	44
38	Influence of phase stability on the residual stress in partially stabilized zirconia TBC produced by plasma spray. Surface and Coatings Technology, 1995, 76-77, 106-112.	2.2	44
39	Diffraction whole-pattern modelling study of anti-phase domains in Cu3Au. Acta Materialia, 2005, 53, 5229-5239.	3.8	44
40	Fabrication of Cu2ZnSnS4 solar cells by sulfurization of evaporated precursors. Energy Procedia, 2011, 10, 187-191.	1.8	44
41	Whole powder pattern modelling macros for TOPAS. Journal of Applied Crystallography, 2018, 51, 1752-1765.	1.9	44
42	On the powder diffraction pattern of crystals with stacking faults. Philosophical Magazine, 2003, 83, 4045-4057.	0.7	43
43	Raman and X-ray diffraction study of boehmite gels and their transformation to Î±- or Î²-alumina. Journal of Solid State Chemistry, 1990, 86, 263-274.	1.4	41
44	MOCVD Growth and Characterization of ZrO2 Thin Films Obtained from Unusual Organo-Zirconium Precursors. Chemical Vapor Deposition, 1999, 5, 159-164.	1.4	41
45	Anisotropic atom displacement in Pd nanocubes resolved by molecular dynamics simulations supported by x-ray diffraction imaging. Physical Review B, 2015, 91, .	1.1	41
46	Progress in CZTS as hole transport layer in perovskite solar cell. Solar Energy, 2020, 196, 399-408.	2.9	41
47	Deposition of MBa2Cu3O7-xthin films by channel-spark method. Superconductor Science and Technology, 1995, 8, 160-164.	1.8	39
48	Effect of annealing and nanostructuring on pulsed laser deposited WS2 for HER catalysis. Applied Catalysis A: General, 2016, 510, 156-160.	2.2	39
49	Study of the diamond-matrix interface in hot-pressed cobalt-based tools. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1990, 130, 257-262.	2.6	38
50	Microstructure and Heat Transfer Phenomena in Ceramic Thermal Barrier Coatings. Journal of the American Ceramic Society, 2001, 84, 827-835.	1.9	38
51	Common volume functions and diffraction line profiles of polyhedral domains. Journal of Applied Crystallography, 2012, 45, 1162-1172.	1.9	38
52	A Polyketone-based Anion Exchange Membrane for Electrochemical Applications: Synthesis and Characterization. Electrochimica Acta, 2017, 226, 148-157.	2.6	38
53	LiMn2O4low-temperature phase: synchrotron and neutron diffraction study. Journal of Applied Crystallography, 1999, 32, 1186-1189.	1.9	37
54	Real-space calculation of powder diffraction patterns on graphics processing units. Journal of Applied Crystallography, 2010, 43, 647-653.	1.9	37

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55	Dry sliding wear of Cuâ€“Be alloys. Wear, 2005, 259, 506-511.	1.5	36
56	On the modelling of the powder pattern from a nanocrystalline material. Zeitschrift FÃ¼r Kristallographie, 2011, 226, 924-933.	1.1	36
57	Whole Powder Pattern Modelling: Theory and Applications. Springer Series in Materials Science, 2004, , 51-91.	0.4	36
58	Chapter 13. Microstructural Properties: Lattice Defects and Domain Size Effects. , 2008, , 376-413.		36
59	The dislocation model of strain anisotropy in whole powder-pattern fitting: the case of an Liâ€“Mn cubic spinel. Journal of Applied Crystallography, 1999, 32, 290-295.	1.9	35
60	Microstructural characterization of plasma-sprayed zirconia thermal barrier coatings by X-ray diffraction full pattern analysis. Surface and Coatings Technology, 1993, 61, 52-59.	2.2	33
61	Heteroepitaxy of LaAlO3(100) on SrTiO3(100):Â In Situ Growth of LaAlO3Thin Films by Metalâ^'Organic Chemical Vapor Deposition from a Liquid Single Source. Chemistry of Materials, 1998, 10, 3765-3768.	3.2	33
62	Polycapillary optics for materials science studies: Instrumental effects and their correction. Journal of Research of the National Institute of Standards and Technology, 2004, 109, 27.	0.4	33
63	Microstructure of Cuâ€“Be alloy triboxidative wear debris. Acta Materialia, 2007, 55, 2531-2538.	3.8	32
64	Sizeâ€“strain separation in diffraction line profile analysis. Journal of Applied Crystallography, 2018, 51, 831-843.	1.9	32
65	Thermal Expansion Anisotropy of Ceria-Stabilized Tetragonal Zirconia. Journal of the American Ceramic Society, 1992, 75, 2828-2832.	1.9	31
66	ZrO2-CeO2 films as protective coatings against dry and wet corrosion of metallic alloys. Surface and Coatings Technology, 1997, 89, 292-298.	2.2	31
67	Synthesis, characterisation and stability of Cu2O nanoparticles produced via reverse micelles microemulsion. Materials Chemistry and Physics, 2010, 122, 602-608.	2.0	31
68	Comparison of the hole-drilling and X-ray diffraction methods for measuring the residual stresses in shot-peened aluminium alloys. Journal of Strain Analysis for Engineering Design, 2005, 40, 199-209.	1.0	30
69	Synthesis of nanocrystal films via femtosecond laser ablation in vacuum. Journal of Physics Condensed Matter, 2006, 18, L49-L53.	0.7	30
70	High-energy grinding of FeMo powders. Journal of Materials Research, 2007, 22, 1744-1753.	1.2	30
71	Effect of jar shape on high-energy planetary ball milling efficiency: Simulations and experiments. Materials and Design, 2016, 110, 365-374.	3.3	30
72	Orderâ€“Disorder Transition in Kesterite Cu₂ZnSnS₄: Thermopower Enhancement via Electronic Band Structure Modification. Journal of Physical Chemistry C, 2020, 124, 7091-7096.	1.5	30

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73	Residual stress in polycrystalline diamond/Tîî—¸6Alî—¸4V systems. Diamond and Related Materials, 1997, 6, 807-811.	1.8	29
74	Residual stress in partially-stabilised-zirconia TBCs: experimental measurement and modelling. Surface and Coatings Technology, 1997, 94-95, 82-88.	2.2	29
75	Production of Cu2(Zn,Fe)SnS4 powders for thin film solar cell by high energy ball milling. Journal of Power Sources, 2013, 230, 70-75.	4.0	29
76	Solution-Based Synthesis and Characterization of Cu2ZnSnS4 (CZTS) Thin Films. Molecules, 2019, 24, 3454.	1.7	29
77	Strain gradients in plasma-sprayed zirconia thermal barrier coatings. Surface and Coatings Technology, 1998, 108-109, 93-98.	2.2	28
78	Stoichiometry effect on Cu2ZnSnS4 thin films morphological and optical properties. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	28
79	Blistering in Cu 2 ZnSnS 4 thin films: correlation with residual stresses. Materials and Design, 2016, 108, 725-735.	3.3	28
80	Diffraction Line Profiles in the Rietveld Method. Crystal Growth and Design, 2020, 20, 6903-6916.	1.4	28
81	Characterization and sliding behavior of HFCVD diamond coatings on WCâ€“Co. Wear, 2001, 249, 461-472.	1.5	27
82	Effect of the Order-Disorder Transition on the Seebeck Coefficient of Nanostructured Thermoelectric Cu2ZnSnS4. Nanomaterials, 2019, 9, 762.	1.9	27
83	Ultra-low thermal conductivity and improved thermoelectric performance in disordered nanostructured copper tin sulphide (Cu2SnS3, CTS). Journal of Alloys and Compounds, 2020, 830, 154604.	2.8	27
84	XRD line profile analysis of calcite powders produced by high energy milling. Zeitschrift FÃ¼r Kristallographie, Supplement, 2008, 2008, 143-150.	0.5	26
85	Role of lattice strain on thermal stability of a nanocrystalline FeMo alloy. Acta Materialia, 2010, 58, 963-966.	3.8	26
86	On the reliability of powder diffraction Line Profile Analysis of plastically deformed nanocrystalline systems. Scientific Reports, 2016, 6, 20712.	1.6	26
87	Towards Low Cost and Sustainable Thin Film Thermoelectric Devices Based on Quaternary Chalcogenides. Advanced Functional Materials, 2022, 32, .	7.8	26
88	Instrumental profile of MYTHEN detector in Debye-Scherrer geometry. Zeitschrift FÃ¼r Kristallographie, 2010, 225, 616-624.	1.1	25
89	Structural properties of RF-magnetron sputtered Cu2O thin films. Thin Solid Films, 2011, 520, 280-286.	0.8	25
90	Effects of SnO2 on hydrogen desorption of MgH2. International Journal of Hydrogen Energy, 2013, 38, 4664-4669.	3.8	25

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91	Celebrating 100 years of the Debye scattering equation. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 589-590.	0.0	25
92	100 years of Debye's scattering equation. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 608-620.	0.0	25
93	Effects of Grain Size on the Thermoelectric Properties of Cu₂SnS₃: An Experimental and First-Principles Study. ACS Applied Energy Materials, 2021, 4, 12604-12612.	2.5	25
94	Application of the Debye function to systems of crystallites. Philosophical Magazine, 2010, 90, 3891-3905.	0.7	24
95	Residual Stresses in Multilayer Welds with Different Martensitic Transformation Temperatures Analyzed by High-Energy Synchrotron Diffraction. Materials Science Forum, 0, 681, 37-42.	0.3	24
96	Laser and mechanical cutting effects on the cut-edge properties of steel S355N. Journal of Constructional Steel Research, 2017, 133, 181-191.	1.7	24
97	Morphology, structure and magnetic properties of (Tb0.3Dy0.7Fe2)100â^'xFexnanogranular films produced by ultrashort pulsed laser deposition. Nanotechnology, 2006, 17, 536-542.	1.3	23
98	Characterization of standard reference materials for obtaining instrumental line profiles. Powder Diffraction, 1998, 13, 210-215.	0.4	22
99	Development of biaxially aligned buffer layers on Ni and Ni-based alloy substrates for YBCO tapes fabrication. IEEE Transactions on Applied Superconductivity, 1999, 9, 2256-2259.	1.1	22
100	Line Profile Analysis in the Rietveld Method and Whole-Powder-Pattern Fitting. Materials Science Forum, 2001, 378-381, 132-141.	0.3	22
101	Powder diffraction line profiles from the size and shape of nanocrystallites. Journal of Applied Crystallography, 2011, 44, 945-953.	1.9	22
102	Control of composition and grain growth in Cu2ZnSnS4 thin films from nanoparticle inks. Thin Solid Films, 2019, 674, 12-21.	0.8	22
103	XRD characterization of multilayered systems. Thin Solid Films, 1993, 236, 130-134.	0.8	21
104	Structure and morphology of shape-controlled Pd nanocrystals. Journal of Applied Crystallography, 2015, 48, 1534-1542.	1.9	21
105	Debyeâ€“Waller coefficient of heavily deformed nanocrystalline iron. Journal of Applied Crystallography, 2017, 50, 508-518.	1.9	21
106	Properties of anion exchange membrane based on polyamine: Effect of functionalized silica particles prepared by solâ€“gel method. Solid State Ionics, 2018, 322, 85-92.	1.3	21
107	Experimental and Ab Initio Study of Cu₂SnS₃ (CTS) Polymorphs for Thermoelectric Applications. Journal of Physical Chemistry C, 2021, 125, 178-188.	1.5	21
108	XRD Microstructural Characterization of Tetragonal Pure Zirconia Powders Obtained by Controlled Hydrolysis of Zirconium Alkoxides. Powder Diffraction, 1991, 6, 20-25.	0.4	20

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109	Residual stress in stabilized zirconia thin films prepared by r.f. magnetron sputtering. Thin Solid Films, 1994, 253, 349-355.	0.8	20
110	Structural evolution and thermal stability of deuterated titanium thin films. Physical Review B, 1998, 58, 4130-4137.	1.1	20
111	Effect of the dispersion of nanometric silica particles on the thermal stability of a nanostructured iron based powder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 445-446, 244-250.	2.6	20
112	DECcalc - A Program for the Calculation of Diffraction Elastic Constants from Single Crystal Coefficients. Materials Science Forum, 0, 681, 417-419.	0.3	20
113	Microemulsion Synthesis of Copper Oxide Nanorod-Like Structures. Molecular Crystals and Liquid Crystals, 2012, 555, 17-31.	0.4	20
114	Realistic nano-polycrystalline microstructures: beyond the classical Voronoi tessellation. Philosophical Magazine, 2012, 92, 986-1005.	0.7	20
115	Considerations concerning Wilkens' theory of dislocation line-broadening. Zeitschrift FÃ¼r Kristallographie, Supplement, 2006, 2006, 81-86.	0.5	20
116	Structural analysis of TiN_x films prepared by reactive-ion-beam-enhanced deposition. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 627-637.	0.6	19
117	Laser-ablation deposition of CeO2 thin films on biaxially textured nickel substrates. Physica C: Superconductivity and Its Applications, 1999, 312, 202-212.	0.6	19
118	The Impact of Shear and Elongational Forces on Structural Formation of Polyacrylonitrile/Carbon Nanotubes Composite Fibers during Wet Spinning Process. Materials, 2019, 12, 2797.	1.3	19
119	Nanostructured kesterite (Cu2ZnSnS4) for applications in thermoelectric devices. Powder Diffraction, 2019, 34, S42-S47.	0.4	19
120	XRD characterization of highly dispersed metal catalysts on carbon support. Journal of Materials Research, 1993, 8, 1829-1835.	1.2	18
121	Residual stress in plasma sprayed Y2O3î—¸PSZ coatings on piston heads. Surface and Coatings Technology, 1996, 86-87, 109-115.	2.2	18
122	Multicapillary Optics for Materials Science Studies. Materials Science Forum, 2000, 321-324, 162-167.	0.3	18
123	Recent advancements in Whole Powder Pattern Modelling. Zeitschrift FÃ¼r Kristallographie, Supplement, 2008, 2008, 101-111.	0.5	18
124	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
125	In situ size-strain analysis of nanocrystalline ceria growth. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 77-82.	2.6	18
126	Correlation between microstructure and bioequivalence in Anti-HIV Drug Efavirenz. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 91, 52-58.	2.0	18

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127	Vibrational Properties of Nanocrystals from the Debye Scattering Equation. Scientific Reports, 2016, 6, 22221.	1.6	18
128	Dislocation Effects on the Diffraction Line Profiles from Nanocrystalline Domains. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5722-5732.	1.1	18
129	Kinetics of phase separation and thermal behaviour of gel-derived Al2O3 doped by Cr2O3: an X-ray diffraction and fluorescence spectroscopy study. Journal of Materials Science, 1990, 25, 2705-2710.	1.7	17
130	Temperature diffuse scattering of nanocrystals. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, 382-392.	0.3	17
131	Chemical modification and structural rearrangements of polyketoneâ€based polymer membrane. Journal of Applied Polymer Science, 2017, 134, 45485.	1.3	17
132	Origin of a Simultaneous Suppression of Thermal Conductivity and Increase of Electrical Conductivity and Seebeck Coefficient in Disordered Cubic Cu ₂ ZnSnS ₄. Physical Review Applied, 2020, 14, .	1.5	17
133	Thermal stability of cordierite catalyst supports contaminated by Fe2O3, ZnO and V2O5. Journal of the European Ceramic Society, 1994, 13, 275-282.	2.8	16
134	Dissolution of nanocrystalline fluorite powders: An investigation by XRD and solution chemistry. Geochimica Et Cosmochimica Acta, 2005, 69, 4073-4083.	1.6	16
135	Structural characterization and functional correlation of Fe3O4 nanocrystals obtained using 2-ethyl-1,3-hexanediol as innovative reactive solvent in non-hydrolytic sol-gel synthesis. Materials Chemistry and Physics, 2018, 207, 337-349.	2.0	16
136	Synthesis and Post-Annealing of Cu2ZnSnS4 Absorber Layers Based on Oleylamine/1-dodecanethiol. Materials, 2019, 12, 3320.	1.3	16
137	X-ray diffraction peak profile analysis of TiNx films prepared on silicon by reactive ion beam assisted deposition. Thin Solid Films, 1991, 195, 213-224.	0.8	15
138	Influence of Ce3+/Ce4+ ratio on phase stability and residual stress field in ceria-yttria stabilized zirconia plasma-sprayed coatings. Journal of Materials Science, 1992, 27, 5591-5596.	1.7	15
139	Tin Oxide Thinâ€Film Sensors for Aromatic Hydrocarbons Detection: Effect of Aging Time on Film Microstructure. Journal of the American Ceramic Society, 1999, 82, 1201-1206.	1.9	15
140	Revision and extension of the standard laboratory technique for X-ray diffraction measurement of residual stress gradients. Journal of Applied Crystallography, 2007, 40, 675-683.	1.9	15
141	Whole Powder Pattern Modelling of cubic metal powders deformed by high energy milling. Zeitschrift Fur Kristallographie - Crystalline Materials, 2007, 222, .	0.4	15
142	The Contour Method for Residual Stress Determination Applied to an AA6082-T6 Friction Stir Butt Weld. Materials Science Forum, 0, 681, 177-181.	0.3	15
143	Thermoelectric properties of CZTS thin films: effect of Cuâ€“Zn disorder. Physical Chemistry Chemical Physics, 2021, 23, 13148-13158.	1.3	15
144	X-ray photoelectron spectroscopic investigation of impurity phase segregation in ceria-yttria-zirconia. Journal of Materials Science Letters, 1991, 10, 320-322.	0.5	14

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145	Tungsten Singlecrystal and Polycrystalline Foils Used as First Transmission Moderator. Materials Science Forum, 1992, 105-110, 1849-1852.	0.3	14
146	Textured Non-Magnetic Ni-V 10 % Alloy Tape for Epitaxial Growth of High TC Superconductors. International Journal of Modern Physics B, 1999, 13, 1035-1040.	1.0	14
147	Grain size distribution of nanocrystalline systems. Powder Diffraction, 2005, 20, 353-358.	0.4	14
148	Diffraction line profile from a disperse system: A simple alternative to Voigtian profiles. Powder Diffraction, 2006, 21, 270-277.	0.4	14
149	Evaluation of Arc Evaporated Coatings on Rounded Surfaces and Sharp Edges. Materials Science Forum, 0, 681, 145-150.	0.3	14
150	Determining Ti-17 Î²-Phase Single-Crystal Elasticity Constants through X-Ray Diffraction and Inverse Scale Transition Model. Materials Science Forum, 2011, 681, 97-102.	0.3	14
151	Strain in Atomistic Models of Nanocrystalline Clusters. Journal of Nanoscience and Nanotechnology, 2012, 12, 8546-8553.	0.9	14
152	Solid State Nuclear Magnetic Resonance and X-ray Diffraction Line Profile Analysis of heavily deformed fluorite. Thin Solid Films, 2013, 530, 44-48.	0.8	14
153	Effect of Mgo content changes (8 to 15%) on the devitrification of glasses obtained from porphiric sands, Mgo and Tio(in2) (4%). Journal of Materials Science, 1992, 27, 1-4.	1.7	13
154	Nondestructive Measurement of the Residual Stress Profile in Ceramic Laminates. Journal of the American Ceramic Society, 2008, 91, 1218-1225.	1.9	13
155	Stability and Relaxation of Welding Residual Stresses. Materials Science Forum, 0, 681, 55-60.	0.3	13
156	Residual Stresses and Strength of Hard Chromium Coatings. Materials Science Forum, 0, 681, 133-138.	0.3	13
157	Directional pair distribution function for diffraction line profile analysis of atomistic models. Journal of Applied Crystallography, 2013, 46, 63-75.	1.9	13
158	Capacitor discharge sintering of nanocrystalline copper. Zeitschrift FÃ¼r Kristallographie, Supplement, 2008, 2008, 37-44.	0.5	13
159	Debye equation versus Whole Powder Pattern Modelling: Real versus reciprocal space modelling of nanomaterials. Zeitschrift FÃ¼r Kristallographie, Supplement, 2009, 2009, 85-90.	0.5	13
160	Characterization of ion-nitrided titanium layers by means of x-ray microdiffractometry. Surface and Coatings Technology, 1990, 41, 83-91.	2.2	12
161	Influence of calcium oxide and sodium oxide on the microstructure of cordierite catalyst supports. Ceramics International, 1993, 19, 105-111.	2.3	12
162	Thermal stability of stabilized zirconia thermal barrier coatings prepared by atmosphere- and temperature-controlled spraying. Surface and Coatings Technology, 1994, 68-69, 106-112.	2.2	12

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163	Lattice disorder and texture in diamond coatings deposited by HFCVD on Co-cemented tungsten carbide. Thin Solid Films, 1996, 290-291, 136-142.	0.8	12
164	Characterisation of thin ceramic coatings on metal substrates. Materials Letters, 1997, 31, 345-349.	1.3	12
165	Powder diffraction characterization of stacking disorder. Zeitschrift FÃ¼r Kristallographie, Supplement, 2007, 2007, 99-104.	0.5	12
166	Local Residual Stress Distributions Induced by Repeated Austenite-Martensite Transformation via Laser Surface Hardening of Steel AISI 4140. Materials Science Forum, 0, 681, 321-326.	0.3	12
167	Atomistic modeling of lattice relaxation in metallic nanocrystals. Thin Solid Films, 2013, 530, 35-39.	0.8	12
168	A water- and sulfurization-free solution route to Cu2-xZn1+xSnS4. Journal of Sol-Gel Science and Technology, 2014, 72, 490-495.	1.1	12
169	Characterization of epitaxial SrTiO₃/YBa₂Cu₃O₇ layers deposited on (001) MgO by laser ablation. Journal of Materials Research, 1993, 8, 2780-2784.	1.2	11
170	Relaxation of indentation residual stress in alumina: Experimental observation by X-ray diffraction. Journal of the European Ceramic Society, 1998, 18, 1663-1668.	2.8	11
171	Domain Size Analysis in the Rietveld Method. Materials Science Forum, 0, 651, 187-200.	0.3	11
172	Hydrogen Accelerated Classical Rolling Contact Fatigue and Evaluation of the Residual Stress Response. Materials Science Forum, 0, 681, 249-254.	0.3	11
173	Simulation and Modeling of Nanoparticle Surface Strain. Journal of Nanoscience and Nanotechnology, 2012, 12, 8554-8560.	0.9	11
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