

# Paolo Scardi

## List of Publications by Citations

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363  
papers

8,671  
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40  
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82  
g-index

396  
ext. papers

9,542  
ext. citations

2.7  
avg, IF

6.1  
L-index

#	Paper	IF	Citations
363	Rietveld refinement guidelines. <i>Journal of Applied Crystallography</i> , <b>1999</b> , 32, 36-50	3.8	1417
362	Simultaneous structure and size-strain refinement by the Rietveld method. <i>Journal of Applied Crystallography</i> , <b>1990</b> , 23, 246-252	3.8	521
361	Whole powder pattern modelling. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2002</b> , 58, 190-200		389
360	Line broadening analysis using integral breadth methods: a critical review. <i>Journal of Applied Crystallography</i> , <b>2004</b> , 37, 381-390	3.8	278
359	Effect of a crystallite size distribution on X-ray diffraction line profiles and whole-powder-pattern fitting. <i>Journal of Applied Crystallography</i> , <b>2000</b> , 33, 964-974	3.8	241
358	LSI- a computer program for simultaneous refinement of material structure and microstructure. <i>Journal of Applied Crystallography</i> , <b>1992</b> , 25, 459-462	3.8	206
357	Diffraction line profiles from polydisperse crystalline systems. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2001</b> , 57, 604-13		164
356	Solar photoactivity of nano-N-TiO <sub>2</sub> from tertiary amine: role of defects and paramagnetic species. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 96, 314-322	21.8	159
355	Absorption coefficient of bulk and thin film Cu <sub>2</sub> O. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 2848-2854	28.54	139
354	Reverse bending fatigue of shot peened 7075-T651 aluminium alloy: The role of residual stress relaxation. <i>International Journal of Fatigue</i> , <b>2009</b> , 31, 1225-1236	5	119
353	CZTS stoichiometry effects on the band gap energy. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 582, 528-534	4.7	111
352	Thermal diffusivity/microstructure relationship in Y-PSZ thermal barrier coatings. <i>Journal of Thermal Spray Technology</i> , <b>1999</b> , 8, 102-109	2.5	106
351	Line profile analysis: pattern modelling versus profile fitting. <i>Journal of Applied Crystallography</i> , <b>2006</b> , 39, 24-31	3.8	97
350	Morphology, structure and chemistry of extracted diesel soot Part I: Transmission electron microscopy, Raman spectroscopy, X-ray photoelectron spectroscopy and synchrotron X-ray diffraction study. <i>Tribology International</i> , <b>2012</b> , 52, 29-39	4.9	90
349	Fourier modelling of the anisotropic line broadening of X-ray diffraction profiles due to line and plane lattice defects. <i>Journal of Applied Crystallography</i> , <b>1999</b> , 32, 671-682	3.8	84
348	MCX: a Synchrotron Radiation Beamline for X-ray Diffraction Line Profile Analysis. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2014</b> , 640, 3100-3106	1.3	73
347	Thermophysical, mechanical and microstructural characterization of aged free-standing plasma-sprayed zirconia coatings. <i>Acta Materialia</i> , <b>2008</b> , 56, 4477-4488	8.4	71

346	X-ray Diffraction Methodology for the Microstructural Analysis of Nanocrystalline Powders: Application to Cerium Oxide. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 1133-1140	3.8	67
345	About the Nitrogen Location in Nanocrystalline N-Doped TiO <sub>2</sub> : Combined DFT and EXAFS Approach. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 1764-1771	3.8	66
344	Experimental determination of the instrumental broadening in the Bragg-Brentano geometry. <i>Powder Diffraction</i> , <b>1994</b> , 9, 180-186	1.8	66
343	The potential of polyurethane bio-based solid polymer electrolyte for photoelectrochemical cell application. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 3005-3017	6.7	64
342	Dislocation effects in powder diffraction. <i>Journal of Applied Crystallography</i> , <b>2007</b> , 40, 719-724	3.8	64
341	Nanocrystalline domain size distributions from powder diffraction data. <i>Journal of Applied Crystallography</i> , <b>2004</b> , 37, 629-634	3.8	63
340	Dry and wet corrosion behaviour of AISI 304 stainless steel coated by sol-gel ZrO <sub>2</sub> /CeO <sub>2</sub> films. <i>Thin Solid Films</i> , <b>1996</b> , 286, 127-135	2.2	61
339	Nitrogen doped Cu <sub>2</sub> O: A possible material for intermediate band solar cells?. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 105, 192-195	6.4	60
338	Phase stability of scandia-yttria-stabilized zirconia TBCs. <i>Surface and Coatings Technology</i> , <b>1998</b> , 108-109, 107-113	4.4	60
337	WPPM: Microstructural Analysis beyond the Rietveld Method. <i>Materials Science Forum</i> , <b>2010</b> , 651, 155-171	4.1	53
336	Residual stresses in HVOF-sprayed ceramic coatings. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 4810-4819	4.1	51
335	Residual stresses in plasma sprayed partially stabilised zirconia TBCs: influence of the deposition temperature. <i>Thin Solid Films</i> , <b>1996</b> , 278, 96-103	2.2	48
334	A general approach for determining the diffraction contrast factor of straight-line dislocations. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2009</b> , 65, 109-19		47
333	(Ti,Cr)N and Ti/TiN PVD coatings on 304 stainless steel substrates: Texture and residual stress. <i>Thin Solid Films</i> , <b>1999</b> , 345, 263-269	2.2	47
332	MarqX: a new program for whole-powder-pattern fitting. <i>Journal of Applied Crystallography</i> , <b>2000</b> , 33, 184-189	3.8	46
331	(Ti,Cr)N and Ti/TiN PVD coatings on 304 stainless steel substrates: wear-corrosion behaviour. <i>Thin Solid Films</i> , <b>1999</b> , 350, 161-167	2.2	45
330	Influence of phase stability on the residual stress in partially stabilized zirconia TBC produced by plasma spray. <i>Surface and Coatings Technology</i> , <b>1995</b> , 76-77, 106-112	4.4	44
329	Disorder effects in ion-implanted niobium thin films. <i>Physical Review B</i> , <b>1985</b> , 31, 3121-3123	3.3	43

328	Modeling of the planetary ball-milling process: The case study of ceramic powders. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 2205-2212	6	42
327	Whole diffraction pattern-fitting of polycrystalline fcc materials based on microstructure. <i>European Physical Journal B</i> , <b>2000</b> , 18, 23-30	1.2	42
326	Fabrication of Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cells by sulfurization of evaporated precursors. <i>Energy Procedia</i> , <b>2011</b> , 10, 187-191	2.3	41
325	Diffraction whole-pattern modelling study of anti-phase domains in Cu <sub>3</sub> Au. <i>Acta Materialia</i> , <b>2005</b> , 53, 5229-5239	8.4	40
324	Deposition of MBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films by channel-spark method. <i>Superconductor Science and Technology</i> , <b>1995</b> , 8, 160-164	3.1	39
323	MOCVD Growth and Characterization of ZrO <sub>2</sub> Thin Films Obtained from Unusual Organo-Zirconium Precursors. <i>Chemical Vapor Deposition</i> , <b>1999</b> , 5, 159-164		38
322	On the powder diffraction pattern of crystals with stacking faults. <i>Philosophical Magazine</i> , <b>2003</b> , 83, 4045-4057	4.05	35
321	Study of the diamond-matrix interface in hot-pressed cobalt-based tools. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1990</b> , 130, 257-262	5.3	35
320	Chapter 13: Microstructural Properties: Lattice Defects and Domain Size Effects <b>2008</b> , 376-413		35
319	Real-space calculation of powder diffraction patterns on graphics processing units. <i>Journal of Applied Crystallography</i> , <b>2010</b> , 43, 647-653	3.8	34
318	Microstructure and Heat Transfer Phenomena in Ceramic Thermal Barrier Coatings. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 827-835	3.8	34
317	LiMn <sub>2</sub> O <sub>4</sub> low-temperature phase: synchrotron and neutron diffraction study. <i>Journal of Applied Crystallography</i> , <b>1999</b> , 32, 1186-1189	3.8	34
316	Common volume functions and diffraction line profiles of polyhedral domains. <i>Journal of Applied Crystallography</i> , <b>2012</b> , 45, 1162-1172	3.8	33
315	A Polyketone-based Anion Exchange Membrane for Electrochemical Applications: Synthesis and Characterization. <i>Electrochimica Acta</i> , <b>2017</b> , 226, 148-157	6.7	32
314	Anisotropic atom displacement in Pd nanocubes resolved by molecular dynamics simulations supported by x-ray diffraction imaging. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	32
313	Microstructural characterization of plasma-sprayed zirconia thermal barrier coatings by X-ray diffraction full pattern analysis. <i>Surface and Coatings Technology</i> , <b>1993</b> , 61, 52-59	4.4	32
312	Raman and X-ray diffraction study of boehmite gels and their transformation to $\gamma$ - or $\delta$ -alumina. <i>Journal of Solid State Chemistry</i> , <b>1990</b> , 86, 263-274	3.3	32
311	Heteroepitaxy of LaAlO <sub>3</sub> (100) on SrTiO <sub>3</sub> (100): In Situ Growth of LaAlO <sub>3</sub> Thin Films by Metal-Organic Chemical Vapor Deposition from a Liquid Single Source. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 3765-3768	9.6	30

310	Residual stress in polycrystalline diamond/Ti-6Al-4V systems. <i>Diamond and Related Materials</i> , <b>1997</b> , 6, 807-811	3.5	29
309	Synthesis of nanocrystal films via femtosecond laser ablation in vacuum. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, L49-L53	1.8	29
308	Dry sliding wear of CuBe alloys. <i>Wear</i> , <b>2005</b> , 259, 506-511	3.5	29
307	On the modelling of the powder pattern from a nanocrystalline material. <i>Zeitschrift für Kristallographie</i> , <b>2011</b> , 226, 924-933		28
306	Synthesis, characterisation and stability of Cu <sub>2</sub> O nanoparticles produced via reverse micelles microemulsion. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 122, 602-608	4.4	28
305	ZrO <sub>2</sub> -CeO <sub>2</sub> films as protective coatings against dry and wet corrosion of metallic alloys. <i>Surface and Coatings Technology</i> , <b>1997</b> , 89, 292-298	4.4	28
304	Residual stress in partially-stabilised-zirconia TBCs: experimental measurement and modelling. <i>Surface and Coatings Technology</i> , <b>1997</b> , 94-95, 82-88	4.4	28
303	High-energy grinding of FeMo powders. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1744-1753	2.5	28
302	Thermal Expansion Anisotropy of Ceria-Stabilized Tetragonal Zirconia. <i>Journal of the American Ceramic Society</i> , <b>1992</b> , 75, 2828-2832	3.8	28
301	Production of Cu <sub>2</sub> (Zn,Fe)SnS <sub>4</sub> powders for thin film solar cell by high energy ball milling. <i>Journal of Power Sources</i> , <b>2013</b> , 230, 70-75	8.9	27
300	Microstructure of CuBe alloy trioxidative wear debris. <i>Acta Materialia</i> , <b>2007</b> , 55, 2531-2538	8.4	27
299	Whole Powder Pattern Modelling: Theory and Applications. <i>Springer Series in Materials Science</i> , <b>2004</b> , 51-91	0.9	27
298	Effect of annealing and nanostructuring on pulsed laser deposited WS <sub>2</sub> for HER catalysis. <i>Applied Catalysis A: General</i> , <b>2016</b> , 510, 156-160	5.1	26
297	Role of lattice strain on thermal stability of a nanocrystalline FeMo alloy. <i>Acta Materialia</i> , <b>2010</b> , 58, 963-966	3.6	26
296	Comparison of the hole-drilling and X-ray diffraction methods for measuring the residual stresses in shot-peened aluminium alloys. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2005</b> , 40, 199-209	1.3	26
295	Strain gradients in plasma-sprayed zirconia thermal barrier coatings. <i>Surface and Coatings Technology</i> , <b>1998</b> , 108-109, 93-98	4.4	25
294	Characterization and sliding behavior of HFCVD diamond coatings on WC-Co. <i>Wear</i> , <b>2001</b> , 249, 461-472	3.5	25
293	Polycapillary Optics for Materials Science Studies: Instrumental Effects and Their Correction. <i>Journal of Research of the National Institute of Standards and Technology</i> , <b>2004</b> , 109, 27-48	1.3	24

292	Effect of jar shape on high-energy planetary ball milling efficiency: Simulations and experiments. <i>Materials and Design</i> , <b>2016</b> , 110, 365-374	8.1	24
291	Effects of SnO <sub>2</sub> on hydrogen desorption of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 4664-4669	6.7	23
290	Structural properties of RF-magnetron sputtered Cu <sub>2</sub> O thin films. <i>Thin Solid Films</i> , <b>2011</b> , 520, 280-286	2.2	23
289	Whole powder pattern modelling macros for TOPAS. <i>Journal of Applied Crystallography</i> , <b>2018</b> , 51, 1752-1765	3.6	23
288	Size-strain separation in diffraction line profile analysis. <i>Journal of Applied Crystallography</i> , <b>2018</b> , 51, 831-843	3.8	22
287	Stoichiometry effect on Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films morphological and optical properties. <i>Journal of Renewable and Sustainable Energy</i> , <b>2014</b> , 6, 011404	2.5	22
286	Residual Stresses in Multilayer Welds with Different Martensitic Transformation Temperatures Analyzed by High-Energy Synchrotron Diffraction. <i>Materials Science Forum</i> , <b>2011</b> , 681, 37-42	0.4	21
285	Development of biaxially aligned buffer layers on Ni and Ni-based alloy substrates for YBCO tapes fabrication. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1999</b> , 9, 2256-2259	1.8	21
284	Progress in CZTS as hole transport layer in perovskite solar cell. <i>Solar Energy</i> , <b>2020</b> , 196, 399-408	6.8	21
283	On the reliability of powder diffraction Line Profile Analysis of plastically deformed nanocrystalline systems. <i>Scientific Reports</i> , <b>2016</b> , 6, 20712	4.9	20
282	Powder diffraction line profiles from the size and shape of nanocrystallites. <i>Journal of Applied Crystallography</i> , <b>2011</b> , 44, 945-953	3.8	20
281	Effect of the dispersion of nanometric silica particles on the thermal stability of a nanostructured iron based powder. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 445-446, 244-250	5.3	20
280	Morphology, structure and magnetic properties of (Tb <sub>0.3</sub> Dy <sub>0.7</sub> Fe <sub>2</sub> ) <sub>100</sub> Fe nanogranular films produced by ultrashort pulsed laser deposition. <i>Nanotechnology</i> , <b>2006</b> , 17, 536-542	3.4	20
279	XRD Microstructural Characterization of Tetragonal Pure Zirconia Powders Obtained by Controlled Hydrolysis of Zirconium Alkoxides. <i>Powder Diffraction</i> , <b>1991</b> , 6, 20-25	1.8	20
278	Blistering in Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films: correlation with residual stresses. <i>Materials and Design</i> , <b>2016</b> , 108, 725-735	8.1	20
277	Realistic nano-polycrystalline microstructures: beyond the classical Voronoi tessellation. <i>Philosophical Magazine</i> , <b>2012</b> , 92, 986-1005	1.6	19
276	The dislocation model of strain anisotropy in whole powder-pattern fitting: the case of an LiMn cubic spinel. <i>Journal of Applied Crystallography</i> , <b>1999</b> , 32, 290-295	3.8	19
275	Residual stress in stabilized zirconia thin films prepared by r.f. magnetron sputtering. <i>Thin Solid Films</i> , <b>1994</b> , 253, 349-355	2.2	19

274	Structural analysis of TiN <sub>x</sub> films prepared by reactive-ion-beam-enhanced deposition. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1990</b> , 61, 627-637		19
273	Effect of the Order-Disorder Transition on the Seebeck Coefficient of Nanostructured Thermoelectric CuZnSnS. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	18
272	100 years of Debye's scattering equation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2016</b> , 72, 608-620	1.7	18
271	Instrumental profile of MYTHEN detector in Debye-Scherrer geometry. <i>Zeitschrift für Kristallographie</i> , <b>2010</b> , 225, 616-624		18
270	Characterization of (111) surface tailored Pt nanoparticles by electrochemistry and X-ray powder diffraction. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 528, 83-90	5.3	18
269	Line Profile Analysis in the Rietveld Method and Whole-Powder-Pattern Fitting. <i>Materials Science Forum</i> , <b>2001</b> , 378-381, 132-141	0.4	18
268	XRD characterization of multilayered systems. <i>Thin Solid Films</i> , <b>1993</b> , 236, 130-134	2.2	18
267	Structure and morphology of shape-controlled Pd nanocrystals. <i>Journal of Applied Crystallography</i> , <b>2015</b> , 48, 1534-1542	3.8	17
266	Laser-ablation deposition of CeO <sub>2</sub> thin films on biaxially textured nickel substrates. <i>Physica C: Superconductivity and Its Applications</i> , <b>1999</b> , 312, 202-212	1.3	17
265	Laser and mechanical cutting effects on the cut-edge properties of steel S355N. <i>Journal of Constructional Steel Research</i> , <b>2017</b> , 133, 181-191	3.8	16
264	Control of composition and grain growth in Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films from nanoparticle inks. <i>Thin Solid Films</i> , <b>2019</b> , 674, 12-21	2.2	16
263	Debye-Waller coefficient of heavily deformed nanocrystalline iron. <i>Journal of Applied Crystallography</i> , <b>2017</b> , 50, 508-518	3.8	16
262	Correlation between microstructure and bioequivalence in anti-HIV drug efavirenz. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2015</b> , 91, 52-8	5.7	16
261	Application of the Debye function to systems of crystallites. <i>Philosophical Magazine</i> , <b>2010</b> , 90, 3891-3905.	1.6	16
260	Microemulsion Synthesis of Copper Oxide Nanorod-Like Structures. <i>Molecular Crystals and Liquid Crystals</i> , <b>2012</b> , 555, 17-31	0.5	16
259	In situ size-strain analysis of nanocrystalline ceria growth. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 528, 77-82	5.3	16
258	Structural evolution and thermal stability of deuterated titanium thin films. <i>Physical Review B</i> , <b>1998</b> , 58, 4130-4137	3.3	16
257	XRD characterization of highly dispersed metal catalysts on carbon support. <i>Journal of Materials Research</i> , <b>1993</b> , 8, 1829-1835	2.5	16

256	Celebrating 100 years of the Debye scattering equation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2016</b> , 72, 589-590	1.7	16
255	Properties of anion exchange membrane based on polyamine: Effect of functionalized silica particles prepared by sol-gel method. <i>Solid State Ionics</i> , <b>2018</b> , 322, 85-92	3.3	16
254	Ultra-low thermal conductivity and improved thermoelectric performance in disordered nanostructured copper tin sulphide (Cu <sub>2</sub> SnS <sub>3</sub> , CTS). <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 830, 154604	5.7	15
253	Dissolution of nanocrystalline fluorite powders: An investigation by XRD and solution chemistry. <i>Geochimica Et Cosmochimica Acta</i> , <b>2005</b> , 69, 4073-4083	5.5	15
252	Multicapillary Optics for Materials Science Studies. <i>Materials Science Forum</i> , <b>2000</b> , 321-324, 162-167	0.4	15
251	Characterization of standard reference materials for obtaining instrumental line profiles. <i>Powder Diffraction</i> , <b>1998</b> , 13, 210-215	1.8	15
250	Residual stress in plasma sprayed Y <sub>2</sub> O <sub>3</sub> ?PSZ coatings on piston heads. <i>Surface and Coatings Technology</i> , <b>1996</b> , 86-87, 109-115	4.4	15
249	Dislocation Effects on the Diffraction Line Profiles from Nanocrystalline Domains. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 5722-5732	2.3	14
248	Solution-Based Synthesis and Characterization of CuZnSnS (CZTS) Thin Films. <i>Molecules</i> , <b>2019</b> , 24,	4.8	14
247	Structural characterization and functional correlation of Fe <sub>3</sub> O <sub>4</sub> nanocrystals obtained using 2-ethyl-1,3-hexanediol as innovative reactive solvent in non-hydrolytic sol-gel synthesis. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 207, 337-349	4.4	14
246	Vibrational Properties of Nanocrystals from the Debye Scattering Equation. <i>Scientific Reports</i> , <b>2016</b> , 6, 22221	4.9	14
245	Temperature diffuse scattering of nanocrystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2012</b> , 68, 382-92		14
244	Chemical modification and structural rearrangements of polyketone-based polymer membrane. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45485	2.9	14
243	Determining Ti-17 BPhase Single-Crystal Elasticity Constants through X-Ray Diffraction and Inverse Scale Transition Model. <i>Materials Science Forum</i> , <b>2011</b> , 681, 97-102	0.4	14
242	Whole Powder Pattern Modelling of cubic metal powders deformed by high energy milling. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2007</b> , 222,	1	14
241	Tin Oxide Thin-Film Sensors for Aromatic Hydrocarbons Detection: Effect of Aging Time on Film Microstructure. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 1201-1206	3.8	14
240	Grain size distribution of nanocrystalline systems. <i>Powder Diffraction</i> , <b>2005</b> , 20, 353-358	1.8	14
239	Textured Non-Magnetic Ni-V 10 % Alloy Tape for Epitaxial Growth of High TC Superconductors. <i>International Journal of Modern Physics B</i> , <b>1999</b> , 13, 1035-1040	1.1	14



238	Thermal stability of cordierite catalyst supports contaminated by Fe <sub>2</sub> O <sub>3</sub> , ZnO and V <sub>2</sub> O <sub>5</sub> . <i>Journal of the European Ceramic Society</i> , <b>1994</b> , 13, 275-282	6	14
237	X-ray photoelectron spectroscopic investigation of impurity phase segregation in ceria-yttria-zirconia. <i>Journal of Materials Science Letters</i> , <b>1991</b> , 10, 320-322		14
236	X-ray diffraction peak profile analysis of TiN <sub>x</sub> films prepared on silicon by reactive ion beam assisted deposition. <i>Thin Solid Films</i> , <b>1991</b> , 195, 213-224	2.2	14
235	DECCalc - A Program for the Calculation of Diffraction Elastic Constants from Single Crystal Coefficients. <i>Materials Science Forum</i> , <b>2011</b> , 681, 417-419	0.4	13
234	Revision and extension of the standard laboratory technique for X-ray diffraction measurement of residual stress gradients. <i>Journal of Applied Crystallography</i> , <b>2007</b> , 40, 675-683	3.8	13
233	OrderDisorder Transition in Kesterite Cu <sub>2</sub> ZnSnS <sub>4</sub> : Thermopower Enhancement via Electronic Band Structure Modification. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 7091-7096	3.8	12
232	Solid State Nuclear Magnetic Resonance and X-ray Diffraction Line Profile Analysis of heavily deformed fluorite. <i>Thin Solid Films</i> , <b>2013</b> , 530, 44-48	2.2	12
231	Stability and Relaxation of Welding Residual Stresses. <i>Materials Science Forum</i> , <b>2011</b> , 681, 55-60	0.4	12
230	Strain in atomistic models of nanocrystalline clusters. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 8546-53	1.3	12
229	Diffraction line profile from a disperse system: A simple alternative to Voigtian profiles. <i>Powder Diffraction</i> , <b>2006</b> , 21, 270-277	1.8	12
228	Thermal stability of stabilized zirconia thermal barrier coatings prepared by atmosphere- and temperature-controlled spraying. <i>Surface and Coatings Technology</i> , <b>1994</b> , 68-69, 106-112	4.4	12
227	Tungsten Singlecrystal and Polycrystalline Foils Used as First Transmission Moderator. <i>Materials Science Forum</i> , <b>1992</b> , 105-110, 1849-1852	0.4	12
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