

Paolo Scardi

List of Publications by Year in Descending Order

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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.

363
papers

8,671
citations

40
h-index

82
g-index

396
ext. papers

9,542
ext. citations

2.7
avg, IF

6.1
L-index

#	Paper	IF	Citations
363	Effects of Preparation Procedures and Porosity on Thermoelectric Bulk Samples of CuSnS (CTS).. <i>Materials</i> , 2022 , 15,	3.5	3
362	Static and dynamic components of Debye-Waller coefficients in the novel cubic polymorph of low-temperature disordered CuZnSnS.. <i>IUCrJ</i> , 2022 , 9, 272-285	4.7	1
361	Microstructure and lattice defects in highly deformed metals by X-ray diffraction whole powder pattern modelling. <i>International Journal of Materials Research</i> , 2022 , 96, 698-702	0.5	
360	Topological Anderson Insulator in Cation-Disordered CuZnSnS. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
359	X-ray powder diffraction in education. Part I. Bragg peak profiles.. <i>Journal of Applied Crystallography</i> , 2021 , 54, 1811-1831	3.8	
358	Suppressing the secondary phases via N ₂ preheating of Cu ₂ ZnSnS ₄ thin films with the addition of oleylamine and/or 1-Dodecanethiol solvents. <i>Inorganic Chemistry Communication</i> , 2021 , 134, 109031	3.1	0
357	Experimental and Ab Initio Study of Cu ₂ SnS ₃ (CTS) Polymorphs for Thermoelectric Applications. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 178-188	3.8	6
356	Effect of oxygen adsorption and oxidation on the strain state of Pd nanocrystals. <i>Applied Surface Science</i> , 2021 , 541, 148508	6.7	2
355	Effect of High-Energy Milling on the Dissolution of Anti-HIV Drug Efavirenz in Different Solvents. <i>ACS Omega</i> , 2021 , 6, 12647-12659	3.9	0
354	A new route for caesium lead halide perovskite deposition. <i>Journal of the European Optical Society-Rapid Publications</i> , 2021 , 17,	2.5	2
353	Order Parameter from the Seebeck Coefficient in Thermoelectric Kesterite Cu ₂ ZnSnS ₄ . <i>Minerals, Metals and Materials Series</i> , 2021 , 527-539	0.3	2
352	Large-Area Nanocrystalline Caesium Lead Chloride Thin Films: A Focus on the Exciton Recombination Dynamics. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
351	Promising porous Cu ₂ ZnSnS ₄ electrode composition synthesized by acetate route-based sol-gel process for lithium battery application. <i>Ceramics International</i> , 2021 , 47, 20717-20724	5.1	2
350	Thermoelectric properties of CZTS thin films: effect of Cu-Zn disorder. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 13148-13158	3.6	3
349	Numerical and experimental investigations on new jar designs for high efficiency planetary ball milling. <i>Advanced Powder Technology</i> , 2020 , 31, 2641-2649	4.6	6
348	OrderDisorder Transition in Kesterite Cu ₂ ZnSnS ₄ : Thermopower Enhancement via Electronic Band Structure Modification. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7091-7096	3.8	12
347	Ultra-low thermal conductivity and improved thermoelectric performance in disordered nanostructured copper tin sulphide (Cu ₂ SnS ₃ , CTS). <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154604	5.7	15

346	Surface softening in palladium nanoparticles: effects of a capping agent on vibrational properties. <i>Nanoscale</i> , 2020 , 12, 5876-5887	7.7	3
345	Cation Disorder and Local Structural Distortions in AgBiS Nanoparticles. <i>Nanomaterials</i> , 2020 , 10,	5.4	1
344	Origin of a Simultaneous Suppression of Thermal Conductivity and Increase of Electrical Conductivity and Seebeck Coefficient in Disordered Cubic Cu ₂ ZnSnS ₄ . <i>Physical Review Applied</i> , 2020 , 14,	4.3	8
343	Progress in CZTS as hole transport layer in perovskite solar cell. <i>Solar Energy</i> , 2020 , 196, 399-408	6.8	21
342	Sodium-caesium electric field assisted ion exchange in a mixed-alkali (Na, K) lime silicate glass. <i>Journal of Non-Crystalline Solids</i> , 2020 , 550, 120390	3.9	2
341	Supramolecular Structure and Mechanical Properties of Wet-Spun Polyacrylonitrile/Carbon Nanotube Composite Fibers Influenced by Stretching Forces. <i>Frontiers in Materials</i> , 2020 , 7,	4	2
340	Diffraction Line Profiles in the Rietveld Method. <i>Crystal Growth and Design</i> , 2020 , 20, 6903-6916	3.5	9
339	A new route for high quality nanometric films of inorganic halide perovskites. <i>EPJ Web of Conferences</i> , 2020 , 238, 07004	0.3	0
338	The Impact of Shear and Elongational Forces on Structural Formation of Polyacrylonitrile/Carbon Nanotubes Composite Fibers during Wet Spinning Process. <i>Materials</i> , 2019 , 12,	3.5	11
337	Solution-Based Synthesis and Characterization of CuZnSnS (CZTS) Thin Films. <i>Molecules</i> , 2019 , 24,	4.8	14
336	Effect of the Order-Disorder Transition on the Seebeck Coefficient of Nanostructured Thermoelectric CuZnSnS. <i>Nanomaterials</i> , 2019 , 9,	5.4	18
335	A comparative study of the mechanical properties of a dinosaur and crocodile fossil teeth. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 97, 365-374	4.1	1
334	Vibrational Properties of Pd Nanocubes. <i>Nanomaterials</i> , 2019 , 9,	5.4	3
333	Nanostructured kesterite (Cu ₂ ZnSnS ₄) for applications in thermoelectric devices. <i>Powder Diffraction</i> , 2019 , 34, S42-S47	1.8	11
332	Control of composition and grain growth in Cu ₂ ZnSnS ₄ thin films from nanoparticle inks. <i>Thin Solid Films</i> , 2019 , 674, 12-21	2.2	16
331	Synthesis and Post-Annealing of CuZnSnS Absorber Layers Based on Oleylamine/1-dodecanethiol. <i>Materials</i> , 2019 , 12,	3.5	11
330	Mechanical activation of Efavirenz: the effects on the dissolution and inhibitory behavior. <i>Pharmaceutical Development and Technology</i> , 2018 , 23, 1128-1135	3.4	1
329	Correlated Debye model for atomic motions in metal nanocrystals. <i>Philosophical Magazine</i> , 2018 , 98, 1412-1435	1.6	4

328	Structural characterization and functional correlation of Fe ₃ O ₄ nanocrystals obtained using 2-ethyl-1,3-hexanediol as innovative reactive solvent in non-hydrolytic sol-gel synthesis. <i>Materials Chemistry and Physics</i> , 2018 , 207, 337-349	4.4	14
327	Size-strain separation in diffraction line profile analysis. <i>Journal of Applied Crystallography</i> , 2018 , 51, 831-843	3.8	22
326	Residual Stress Profile in Tubular Components. <i>Materials Performance and Characterization</i> , 2018 , 7, 20170097	3.7	19
325	High-cycle Fatigue Behaviour of S460N Steel Grade Materials and Bolted Joints Processed by Laser Cutting. <i>Open Construction and Building Technology Journal</i> , 2018 , 12, 83-89	1.1	2
324	Simulating the diffraction line profile from nanocrystalline powders using a spherical harmonics expansion. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018 , 74, 640-646	1.7	10
323	Whole powder pattern modelling macros for TOPAS. <i>Journal of Applied Crystallography</i> , 2018 , 51, 1752-1765	3.7	23
322	Properties of anion exchange membrane based on polyamine: Effect of functionalized silica particles prepared by sol-gel method. <i>Solid State Ionics</i> , 2018 , 322, 85-92	3.3	16
321	A Polyketone-based Anion Exchange Membrane for Electrochemical Applications: Synthesis and Characterization. <i>Electrochimica Acta</i> , 2017 , 226, 148-157	6.7	32
320	Laser and mechanical cutting effects on the cut-edge properties of steel S355N. <i>Journal of Constructional Steel Research</i> , 2017 , 133, 181-191	3.8	16
319	Understanding the instrumental profile of synchrotron radiation X-ray powder diffraction beamlines. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 622-635	2.4	5
318	Diffraction peak profiles of surface relaxed spherical nanocrystals. <i>Philosophical Magazine</i> , 2017 , 97, 2317-2346	1.6	5
317	Microstructural effects of high-energy grinding on poorly soluble drugs: the case study of efavirenz. <i>Powder Diffraction</i> , 2017 , 32, S135-S140	1.8	3
316	Homogeneity of ball milled ceramic powders: Effect of jar shape and milling conditions. <i>Data in Brief</i> , 2017 , 10, 186-191	1.2	6
315	Microstructural Evolution of Thor ₁₅ Creep-Strength Enhanced Ferritic Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 6111-6117	2.3	3
314	Debye-Waller coefficient of heavily deformed nanocrystalline iron. <i>Journal of Applied Crystallography</i> , 2017 , 50, 508-518	3.8	16
313	Chemical modification and structural rearrangements of polyketone-based polymer membrane. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45485	2.9	14
312	09.02: Effects of laser cutting on the cut-edge properties of structural steel S355N subjected to high-cycle fatigue. <i>Ce/Papers</i> , 2017 , 1, 2359-2367	0.3	1
311	Dislocation Effects on the Diffraction Line Profiles from Nanocrystalline Domains. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 5722-5732	2.3	14

310	On the reliability of powder diffraction Line Profile Analysis of plastically deformed nanocrystalline systems. <i>Scientific Reports</i> , 2016 , 6, 20712	4.9	20
309	Vibrational Properties of Nanocrystals from the Debye Scattering Equation. <i>Scientific Reports</i> , 2016 , 6, 22221	4.9	14
308	100 years of Debye's scattering equation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016 , 72, 608-620	1.7	18
307	Effect of annealing and nanostructuring on pulsed laser deposited WS ₂ for HER catalysis. <i>Applied Catalysis A: General</i> , 2016 , 510, 156-160	5.1	26
306	Residual stress and texture in Aluminum doped Zinc Oxide layers deposited by reactive radio frequency magnetron sputtering. <i>Thin Solid Films</i> , 2016 , 605, 169-172	2.2	1
305	Modeling of the planetary ball-milling process: The case study of ceramic powders. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2205-2212	6	42
304	Blistering in Cu ₂ ZnSnS ₄ thin films: correlation with residual stresses. <i>Materials and Design</i> , 2016 , 108, 725-735	8.1	20
303	Effect of jar shape on high-energy planetary ball milling efficiency: Simulations and experiments. <i>Materials and Design</i> , 2016 , 110, 365-374	8.1	24
302	Celebrating 100 years of the Debye scattering equation. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016 , 72, 589-590	1.7	16
301	Anisotropic atom displacement in Pd nanocubes resolved by molecular dynamics simulations supported by x-ray diffraction imaging. <i>Physical Review B</i> , 2015 , 91,	3.3	32
300	Toward a reference material for line profile analysis. <i>Powder Diffraction</i> , 2015 , 30, S47-S51	1.8	2
299	Structure and morphology of shape-controlled Pd nanocrystals. <i>Journal of Applied Crystallography</i> , 2015 , 48, 1534-1542	3.8	17
298	Eshelby twist and correlation effects in diffraction from nanocrystals. <i>Journal of Applied Physics</i> , 2015 , 117, 164304	2.5	7
297	Chloride-based route for monodisperse Cu ₂ ZnSnS ₄ nanoparticles preparation. <i>Journal of Renewable and Sustainable Energy</i> , 2015 , 7, 043150	2.5	6
296	Design and management of a powder diffraction beamline for Line Profile Analysis: a realistic ray-tracing approach. <i>Powder Diffraction</i> , 2015 , 30, S56-S64	1.8	1
295	Atomistic Model of Metal Nanocrystals with Line Defects: Contribution to Diffraction Line Profile. <i>Frontiers in Materials</i> , 2015 , 1,	4	8
294	Correlation between microstructure and bioequivalence in anti-HIV drug efavirenz. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 91, 52-8	5.7	16
293	Diffraction from Nanocrystalline Materials 2015 , 499-518		1

292	Stoichiometry effect on Cu ₂ ZnSnS ₄ thin films morphological and optical properties. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 011404	2.5	22
291	The potential of polyurethane bio-based solid polymer electrolyte for photoelectrochemical cell application. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 3005-3017	6.7	64
290	CZTS stoichiometry effects on the band gap energy. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 528-534	3.7	111
289	A water- and sulfurization-free solution route to Cu _{2-x} Zn _{1+x} SnS ₄ . <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 72, 490-495	2.3	9
288	On the Modeling of the Diffraction Pattern from Metal Nanocrystals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4786-4795	2.3	7
287	MCX: a Synchrotron Radiation Beamline for X-ray Diffraction Line Profile Analysis. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 3100-3106	1.3	73
286	Influence of Tempering Conditions on Shot-Peened Tool Steel Components In-Depth Residual Stress Profiles. <i>Advanced Materials Research</i> , 2014 , 996, 769-774	0.5	1
285	Re-Ingeniería de apatita natural para soporte de tejidos ßeos. <i>Revista Materia</i> , 2014 , 19, 247-256	0.8	
284	Calculation of the instrumental profile function for a powder diffraction beamline used in nanocrystalline material research 2014 ,		2
283	Influence of Lattice Defects on the Grain Growth Kinetics of Nanocrystalline Fluorite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 123-128	2.3	3
282	Activation energy in the thermal decomposition of MgH ₂ powders by coupled TGMS measurements. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 865-874	4.1	2
281	Activation energy in the thermal decomposition of MgH ₂ powders by coupled TGMS measurements. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 225-240	4.1	9
280	John Ian Langford (1935-2013). <i>Journal of Applied Crystallography</i> , 2014 , 47, 2114-2115	3.8	
279	Effects of SnO ₂ on hydrogen desorption of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4664-4669	6.7	23
278	Interference Effects in Nanocrystalline Systems. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 39-44	2.3	4
277	Production of Cu ₂ (Zn,Fe)SnS ₄ powders for thin film solar cell by high energy ball milling. <i>Journal of Power Sources</i> , 2013 , 230, 70-75	8.9	27
276	Atomistic interpretation of microstrain in diffraction line profile analysis. <i>Thin Solid Films</i> , 2013 , 530, 40-43	2.2	9
275	Combined X-ray diffraction and solid-state ¹⁹ F magic angle spinning NMR analysis of lattice defects in nanocrystalline CaF ₂ . <i>Journal of Applied Crystallography</i> , 2013 , 46, 1049-1057	3.8	10

274	Stress gradients and grain interaction determination in electrodeposited coatings by synchrotron radiation. <i>Thin Solid Films</i> , 2013 , 530, 66-70	2.2	
273	Atomistic modeling of lattice relaxation in metallic nanocrystals. <i>Thin Solid Films</i> , 2013 , 530, 35-39	2.2	11
272	Directional pair distribution function for diffraction line profile analysis of atomistic models. <i>Journal of Applied Crystallography</i> , 2013 , 46, 63-75	3.8	11
271	Solid State Nuclear Magnetic Resonance and X-ray Diffraction Line Profile Analysis of heavily deformed fluorite. <i>Thin Solid Films</i> , 2013 , 530, 44-48	2.2	12
270	Atomistic modelling of polycrystalline microstructures: An evolutionary approach to overcome topological restrictions. <i>Computational Materials Science</i> , 2013 , 67, 238-242	3.2	9
269	Influence of Shot-Peening Parameters on the Sub-Surface Residual Stress Profiles in Al-7075 Alloy Components. <i>Materials Science Forum</i> , 2013 , 768-769, 66-71	0.4	3
268	Growth kinetics of Cu ₂ ZnSnS ₄ thin films and powders. <i>Powder Diffraction</i> , 2013 , 28, S228-S241	1.8	1
267	Synthesis and Characterization of Nanostructured Copper Oxide. <i>Ceramic Engineering and Science Proceedings</i> , 2013 , 23-34	0.1	
266	Diffraction line broadening from nanocrystals under large hydrostatic pressures. <i>Powder Diffraction</i> , 2013 , 28, S184-S196	1.8	1
265	Crystalline domain size and faulting in the new NIST SRM 1979 zinc oxide. <i>Powder Diffraction</i> , 2013 , 28, S22-S32	1.8	7
264	Elastic grain interaction in electrodeposited nanocomposite Nickel matrix coatings. <i>Surface and Coatings Technology</i> , 2012 , 206, 2499-2505	4.4	7
263	Morphology, structure and chemistry of extracted diesel sootPart I: Transmission electron microscopy, Raman spectroscopy, X-ray photoelectron spectroscopy and synchrotron X-ray diffraction study. <i>Tribology International</i> , 2012 , 52, 29-39	4.9	90
262	Temperature diffuse scattering of nanocrystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012 , 68, 382-92		14
261	Realistic nano-polycrystalline microstructures: beyond the classical Voronoi tessellation. <i>Philosophical Magazine</i> , 2012 , 92, 986-1005	1.6	19
260	Common volume functions and diffraction line profiles of polyhedral domains. <i>Journal of Applied Crystallography</i> , 2012 , 45, 1162-1172	3.8	33
259	Nitrogen doped Cu ₂ O: A possible material for intermediate band solar cells?. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 105, 192-195	6.4	60
258	About the Nitrogen Location in Nanocrystalline N-Doped TiO ₂ : Combined DFT and EXAFS Approach. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1764-1771	3.8	66
257	Fast Sintering of Nanocrystalline Copper. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 1517-1521	2.3	5

256	Annealing Behavior of a Nanostructured Fe _{1.5} Mo Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 1522-1527	2.3	5
255	Microemulsion Synthesis of Copper Oxide Nanorod-Like Structures. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 555, 17-31	0.5	16
254	X-ray interference by nanocrystalline domains. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 8811-7	1.3	6
253	Simulation and modeling of nanoparticle surface strain. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 8554-60	1.3	10
252	Strain in atomistic models of nanocrystalline clusters. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 8546-53	1.3	12
251	Evaluation of Arc Evaporated Coatings on Rounded Surfaces and Sharp Edges. <i>Materials Science Forum</i> , 2011 , 681, 145-150	0.4	3
250	Analytical and Experimental Approach of Residual Stress on Deep-Rolled Crankshafts and Auto-Fretted Diesel Injection Rails. Effect on Fatigue Resistances in Service. <i>Materials Science Forum</i> , 2011 , 681, 261-266	0.4	2
249	Fabrication of Cu ₂ ZnSnS ₄ solar cells by sulfurization of evaporated precursors. <i>Energy Procedia</i> , 2011 , 10, 187-191	2.3	41
248	Generation of Residual Stresses and Improvement of Surface Integrity Characteristics by Laser Shock Processing. <i>Materials Science Forum</i> , 2011 , 681, 480-485	0.4	3
247	Residual Stress Measurement in Coated Plates Using Layer Growing/ Removing Methods: 100Th Anniversary of the Publication of Stoney's Paper The Tension of Metallic Films Deposited by Electrolysis. <i>Materials Science Forum</i> , 2011 , 681, 165-170	0.4	4
246	Absorption coefficient of bulk and thin film Cu ₂ O. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 2848-2854	2.3	139
245	Structural properties of RF-magnetron sputtered Cu ₂ O thin films. <i>Thin Solid Films</i> , 2011 , 520, 280-286	2.2	23
244	Powder diffraction line profiles from the size and shape of nanocrystallites. <i>Journal of Applied Crystallography</i> , 2011 , 44, 945-953	3.8	20
243	Faulting in finite face-centered-cubic crystallites. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011 , 67, 252-63		8
242	On the modelling of the powder pattern from a nanocrystalline material. <i>Zeitschrift für Kristallographie</i> , 2011 , 226, 924-933		28
241	Fossils as candidate material for orthopedic applications. <i>Journal of Biomaterials Applications</i> , 2011 , 25, 445-67	2.9	1
240	Uncertainties in Triaxial Residual Stress Measurements. <i>Materials Science Forum</i> , 2011 , 681, 498-503	0.4	3
239	Deformation Histories Relevant to Multipass Girth Welds: Temperature, Stress and Plastic Strain Histories. <i>Materials Science Forum</i> , 2011 , 681, 61-66	0.4	4

238	Residual Stresses in Austenitic Steel during Plastic Deformation and Recovery Processes. <i>Materials Science Forum</i> , 2011 , 681, 223-228	0.4	
237	Residual Stress Measurement Of High Molecular Matter By Transmission X-Ray Diffraction. <i>Materials Science Forum</i> , 2011 , 681, 381-386	0.4	2
236	On Faulting in Nanocrystallites of FCC Metals. <i>Materials Science Forum</i> , 2011 , 681, 13-18	0.4	4
235	Analysis of Ductile Damage [Comparison between Micromechanical Models and Neutron Diffraction Experiments. <i>Materials Science Forum</i> , 2011 , 681, 91-96	0.4	
234	Thin Film Stress and Texture Analysis at the MCX Synchrotron Radiation Beamline at ELETTRA. <i>Materials Science Forum</i> , 2011 , 681, 115-120	0.4	2
233	Thickness Effect on Microstructure and Residual Stress of Annealed Copper Thin Films. <i>Materials Science Forum</i> , 2011 , 681, 139-144	0.4	2
232	Simulation and Evaluation of Residual Stress in Bone at the Interface with Implant. <i>Materials Science Forum</i> , 2011 , 681, 315-320	0.4	
231	Influence of Surface Roughness on Evaluation of Stress Gradients in Coatings. <i>Materials Science Forum</i> , 2011 , 681, 121-126	0.4	4
230	The Contour Method for Residual Stress Determination Applied to an AA6082-T6 Friction Stir Butt Weld. <i>Materials Science Forum</i> , 2011 , 681, 177-181	0.4	9
229	Stress Analysis by Kossel Microdiffraction on a Nickel-Based Single Crystal Superalloy during an In Situ Tensile Test [Comparison with Classical X-Ray Diffraction. <i>Materials Science Forum</i> , 2011 , 681, 1-6	0.4	1
228	Experimental Analysis of Shot Peening on Carburized or Carbonitrided Parts. <i>Materials Science Forum</i> , 2011 , 681, 273-277	0.4	1
227	Analysis of Residual Stress Development during Thermal Processing of AL-SI Alloys. <i>Materials Science Forum</i> , 2011 , 681, 358-363	0.4	
226	Residual Stresses in Austenitic Stainless Steel due to High Strain Rate. <i>Materials Science Forum</i> , 2011 , 681, 278-283	0.4	5
225	The Matrix Method for Data Evaluation and its Advantages in Comparison to the Sin ² and Similar Methods. <i>Materials Science Forum</i> , 2011 , 681, 7-12	0.4	2
224	Stability and Relaxation of Welding Residual Stresses. <i>Materials Science Forum</i> , 2011 , 681, 55-60	0.4	12
223	Effects of Brushing and Shot-Peening Residual Stresses on the Fatigue Resistance of Machined Metal Surfaces: Experimental and Predicting Approaches. <i>Materials Science Forum</i> , 2011 , 681, 290-295	0.4	5
222	Thermal Residual Stress Relaxation in Sputtered ZnO Film on (100) Si Substrate Studied In Situ by Synchrotron X-Ray Diffraction. <i>Materials Science Forum</i> , 2011 , 681, 127-132	0.4	
221	Residual Stresses in Multilayer Welds with Different Martensitic Transformation Temperatures Analyzed by High-Energy Synchrotron Diffraction. <i>Materials Science Forum</i> , 2011 , 681, 37-42	0.4	21

220	Residual Stress Fields after Heat Treatment in Cladded Steel of Process Vessels. <i>Materials Science Forum</i> , 2011 , 681, 364-369	0.4	1
219	Hydrogen Accelerated Classical Rolling Contact Fatigue and Evaluation of the Residual Stress Response. <i>Materials Science Forum</i> , 2011 , 681, 249-254	0.4	10
218	Simulation and Measurement of Residual Stresses in a Type 316H Stainless Steel Offset Repair in a Pipe Girth Weld. <i>Materials Science Forum</i> , 2011 , 681, 492-497	0.4	3
217	Numerical Analysis of Laser Shock Peening as a Process for Generation of Compressive Residual Stresses in Open Hole Specimens. <i>Materials Science Forum</i> , 2011 , 681, 267-272	0.4	2
216	Local Residual Stress Distributions Induced by Repeated Austenite-Martensite Transformation via Laser Surface Hardening of Steel AISI 4140. <i>Materials Science Forum</i> , 2011 , 681, 321-326	0.4	10
215	Evaluation of Residual Stresses in Dissimilar Weld Joints. <i>Materials Science Forum</i> , 2011 , 681, 182-187	0.4	4
214	DECcalc - A Program for the Calculation of Diffraction Elastic Constants from Single Crystal Coefficients. <i>Materials Science Forum</i> , 2011 , 681, 417-419	0.4	13
213	PRECIX, Robotic System for Residual Stress Analysis by X-Ray Diffraction. <i>Materials Science Forum</i> , 2011 , 681, 202-208	0.4	1
212	Developments in the Treatment of Residual Stresses in Welded Components. <i>Materials Science Forum</i> , 2011 , 681, 73-78	0.4	
211	A Multi-Scale Study of Residual Stresses Created during the Cure Process of a Composite Tooling Material. <i>Materials Science Forum</i> , 2011 , 681, 309-314	0.4	1
210	Influence of Temperature on Stress Distribution in Bainitic Steels - Application to 16 MND5-A508 Pressure Vessel Steel. <i>Materials Science Forum</i> , 2011 , 681, 243-248	0.4	1
209	Calculation of X-Ray Stress Factors Using Vector Parameterization and Irreducible Representations for SO(3) Group. <i>Materials Science Forum</i> , 2011 , 681, 387-392	0.4	2
208	Experimental Study of the Micromechanical Behaviour of Duplex Stainless Steel SAF 2507 and the Influence of Nitrogen Content. <i>Materials Science Forum</i> , 2011 , 681, 516-521	0.4	2
207	Unconventional Performance of a Highly Luminous Strain/Stress Scanner for High Resolution Studies. <i>Materials Science Forum</i> , 2011 , 681, 426-430	0.4	4
206	Analysis and Prediction of Residual Stresses in Nitrided Tool Steel. <i>Materials Science Forum</i> , 2011 , 681, 352-357	0.4	8
205	Thermal Fatigue Study of Hardfaced Hot Forging Tool Using Numerical Analysis and Residual Stress Evaluation. <i>Materials Science Forum</i> , 2011 , 681, 449-454	0.4	1
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38	Thermal expansion behaviour of glass ceramics derived from porphyric sands. <i>Thermochimica Acta</i> , 1993 , 227, 43-48	2.9	
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27	XRD Microstructural Characterization of Tetragonal Pure Zirconia Powders Obtained by Controlled Hydrolysis of Zirconium Alkoxides. <i>Powder Diffraction</i> , 1991 , 6, 20-25	1.8	20
26	Surface phase definition by microdiffractometry in ion-nitrided Ti alloys. <i>Surface and Coatings Technology</i> , 1991 , 48, 131-135	4.4	3
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23	Influence of Crystallite Size and Microstain on Structure Refinement. <i>Materials Science Forum</i> , 1991 , 79-82, 233-238	0.4	8

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2	Growth by supersonic molecular-beam epitaxy of oligothiophene films with controlled properties		1
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