

Antonietta Guagliardi

List of Publications by Year in descending order

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123
papers

26,496
citations

94269

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126
docs citations

126
times ranked

20252
citing authors

#	ARTICLE	IF	CITATIONS
1	Size Segregation and Atomic Structural Coherence in Spontaneous Assemblies of Colloidal Cesium Lead Halide Nanocrystals. <i>Chemistry of Materials</i> , 2022, 34, 594-608.	3.2	14
2	An Atomistic Model Describing the Structure and Morphology of Cu-Doped C-S-H Hardening Accelerator Nanoparticles. <i>Nanomaterials</i> , 2022, 12, 342.	1.9	9
3	Effects of Structural and Microstructural Features on the Total Scattering Pattern of Nanocrystalline Materials. <i>Nanomaterials</i> , 2022, 12, 1252.	1.9	3
4	To.Sc.Al'And: total scattering for nanotechnology in Al'Andalus. <i>Powder Diffraction</i> , 2022, 37, 43-46.	0.4	0
5	On the amorphous layer in bone mineral and biomimetic apatite: A combined small- and wide-angle X-ray scattering analysis. <i>Acta Biomaterialia</i> , 2021, 120, 167-180.	4.1	20
6	Proton sponge lead halides containing 1D polyoctahedral chains. <i>CrystEngComm</i> , 2021, 23, 1126-1139.	1.3	7
7	A Cu(μ_2)-MOF based on a propargyl carbamate-functionalized isophthalate ligand. <i>RSC Advances</i> , 2021, 11, 20429-20438.	1.7	5
8	Urea-functionalized amorphous calcium phosphate nanofertilizers: optimizing the synthetic strategy towards environmental sustainability and manufacturing costs. <i>Scientific Reports</i> , 2021, 11, 3419.	1.6	40
9	Band Gap Narrowing in Silane-Grafted ZnO Nanocrystals. A Comprehensive Study by Wide-Angle X-ray Total Scattering Methods. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4806-4819.	1.5	3
10	Urea-Doped Calcium Phosphate Nanoparticles as Sustainable Nitrogen Nanofertilizers for Viticulture: Implications on Yield and Quality of Pinot Gris Grapevines. <i>Agronomy</i> , 2021, 11, 1026.	1.3	26
11	Heterovalent BiIII/PbII Ionic Substitution in One-Dimensional Trimethylsulfoxonium Halide Pseudo-Perovskites (X = I, Br). <i>Journal of Physical Chemistry C</i> , 2021, 125, 11728-11742.	1.5	6
12	Ultralow thermal conductivity in 1D and 2D imidazolium-based lead halide perovskites. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	7
13	Conformationally rigid molecular and polymeric naphthalene-diimides containing C ₆ H ₆ N ₂ constitutional isomers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10875-10888.	2.7	7
14	Engineering Biomimetic Calcium Phosphate Nanoparticles: A Green Synthesis of Slow-Release Multinutrient (NPK) Nanofertilizers. <i>ACS Applied Bio Materials</i> , 2020, 3, 1344-1353.	2.3	89
15	The role of nanoparticle structure and morphology in the dissolution kinetics and nutrient release of nitrate-doped calcium phosphate nanofertilizers. <i>Scientific Reports</i> , 2020, 10, 12396.	1.6	26
16	Nanoparticle size distribution from inversion of wide angle X-ray total scattering data. <i>Scientific Reports</i> , 2020, 10, 12759.	1.6	5
17	Reducing Nitrogen Dosage in Triticum durum Plants with Urea-Doped Nanofertilizers. <i>Nanomaterials</i> , 2020, 10, 1043.	1.9	44
18	Polymorphism in N,N α ² -dialkyl-naphthalene diimides. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3097-3112.	2.7	18

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19	Structure, Morphology, and Faceting of TiO ₂ Photocatalysts by the Debye Scattering Equation Method. The P25 and P90 Cases of Study. <i>Nanomaterials</i> , 2020, 10, 743.	1.9	16
20	<i>In situ</i> high-temperature X-ray diffraction study of Sc-doped titanium oxide nanocrystallites. <i>Journal of Applied Crystallography</i> , 2020, 53, 1452-1461.	1.9	2
21	Report on the To.Sca.Lat.-1.0 Summer School, total scattering analysis for nanoscience in Latin America. <i>Powder Diffraction</i> , 2019, 34, 203-207.	0.4	1
22	Crystal Structure, Morphology, and Surface Termination of Cyan-Emissive, Six-Monolayers-Thick CsPbBr ₃ Nanoplatelets from X-ray Total Scattering. <i>ACS Nano</i> , 2019, 13, 14294-14307.	7.3	79
23	Report on the To.Sca.Lake 3.0 summer school, total scattering analysis for nanoscience on the Como Lake. <i>Powder Diffraction</i> , 2019, 34, 284-288.	0.4	1
24	A comprehensive structural and microstructural investigation of a new iron-telluride nano phase. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3047-3057.	2.7	13
25	Size-Dependent Fault-Driven Relaxation and Faceting in Zincblende CdSe Colloidal Quantum Dots. <i>ACS Nano</i> , 2018, 12, 12558-12570.	7.3	33
26	When Crystals Go Nano - The Role of Advanced X-ray Total Scattering Methods in Nanotechnology. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3786-3786.	1.0	0
27	Resolving the Core and the Surface of CdSe Quantum Dots and Nanoplatelets Using Dynamic Nuclear Polarization Enhanced PASS-PIETA NMR Spectroscopy. <i>ACS Central Science</i> , 2018, 4, 1113-1125.	5.3	46
28	When Crystals Go Nano - The Role of Advanced X-ray Total Scattering Methods in Nanotechnology. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3789-3803.	1.0	27
29	Exploration of Near-Infrared-Emissive Colloidal Multinary Lead Halide Perovskite Nanocrystals Using an Automated Microfluidic Platform. <i>ACS Nano</i> , 2018, 12, 5504-5517.	7.3	138
30	Dismantling the "Red Wall" of Colloidal Perovskites: Highly Luminescent Formamidinium and Formamidinium-Cesium Lead Iodide Nanocrystals. <i>ACS Nano</i> , 2017, 11, 3119-3134.	7.3	414
31	Coherent Nanotwins and Dynamic Disorder in Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2017, 11, 3819-3831.	7.3	246
32	Report on the To.Sca.Lake 2.0 Workshop, Total Scattering for Nanotechnology on the Como Lake. <i>Powder Diffraction</i> , 2017, 32, 213-216.	0.4	3
33	The synergic role of collagen and citrate in stabilizing amorphous calcium phosphate precursors with platy morphology. <i>Acta Biomaterialia</i> , 2017, 49, 555-562.	4.1	41
34	Monodisperse Formamidinium Lead Bromide Nanocrystals with Bright and Stable Green Photoluminescence. <i>Journal of the American Chemical Society</i> , 2016, 138, 14202-14205.	6.6	385
35	Nanostructured Drugs Embedded into a Polymeric Matrix: Vinpocetine/PVP Hybrids Investigated by Debye Function Analysis. <i>Molecular Pharmaceutics</i> , 2016, 13, 3034-3042.	2.3	5
36	X-Ray Powder Diffraction Characterization of Nanomaterials. , 2016, , 545-608.		13

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37	A total scattering Debye function analysis study of faulted Pt nanocrystals embedded in a porous matrix. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, 632-644.	0.0	27
38	Crystal symmetry breaking and vacancies in colloidal lead chalcogenide quantum dots. <i>Nature Materials</i> , 2016, 15, 987-994.	13.3	101
39	Report on the To.Sca.Lake Workshop, Total Scattering for Nanotechnology, held at Como Lake. <i>Powder Diffraction</i> , 2015, 30, 320-322.	0.4	4
40	<i>DEBUSSY 2.0</i> : the new release of a Debye user system for nanocrystalline and/or disordered materials. <i>Journal of Applied Crystallography</i> , 2015, 48, 2026-2032.	1.9	61
41	Methane storage in flexible metal-organic frameworks with intrinsic thermal management. <i>Nature</i> , 2015, 527, 357-361.	13.7	817
42	Crystal Size, Morphology, and Growth Mechanism in Bio-Inspired Apatite Nanocrystals. <i>Advanced Functional Materials</i> , 2014, 24, 1090-1099.	7.8	93
43	Apatites: Crystal Size, Morphology, and Growth Mechanism in Bio-Inspired Apatite Nanocrystals (Adv.) <i>Tj ETQq1 1 0,784314 rgBT /Ov</i>	7.8	101
44	Bending by Faulting: A Multiple Scale Study of Copper and Silver Nitropyrazolates. <i>Crystal Growth and Design</i> , 2014, 14, 2913-2922.	1.4	12
45	Lattice parameters and site occupancy factors of magnetite-maghemite core-shell nanoparticles. A critical study. <i>Journal of Applied Crystallography</i> , 2014, 47, 1755-1761.	1.9	37
46	Enhancing the Charge Transport in Solution-Processed Perylene Diimide Transistors via Thermal Annealing of Metastable Disordered Films. <i>Advanced Functional Materials</i> , 2014, 24, 5503-5510.	7.8	27
47	Report on the MISSCA 2013 International Crystallographic Conference. <i>Powder Diffraction</i> , 2014, 29, 85-88.	0.4	1
48	Magnetite-Maghemite Nanoparticles in the 5-15 nm Range: Correlating the Core-Shell Composition and the Surface Structure to the Magnetic Properties. A Total Scattering Study. <i>Chemistry of Materials</i> , 2013, 25, 4820-4827.	3.2	142
49	Nanosized rare-earth hexaborides: Low-temperature preparation and microstructural analysis. <i>Solid State Sciences</i> , 2013, 21, 32-36.	1.5	25
50	Poly(amino acid) functionalized maghemite and gold nanoparticles. <i>Nanotechnology</i> , 2013, 24, 075102.	1.3	4
51	Insights into the polymorphism of glycine: membrane crystallization in an electric field. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9271.	1.3	43
52	Testing the Debye Function Approach on a Laboratory X-ray Powder Diffraction Equipment. A Critical Study. <i>Powder Diffraction</i> , 2013, 28, S11-S21.	0.4	2
53	Report on the IISS2012 Summer School on Crystallography for Health and Biosciences. <i>Powder Diffraction</i> , 2012, 27, 217-218.	0.4	2
54	Early stage mineralization in tissue engineering mapped by high resolution X-ray microdiffraction. <i>Acta Biomaterialia</i> , 2012, 8, 3411-3418.	4.1	36

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55	From Paracrystalline Ru(CO) ₄ 1D Polymer to Nanosized Ruthenium Metal: A Case of Study through Total Scattering Analysis. <i>Crystal Growth and Design</i> , 2012, 12, 3631-3637.	1.4	12
56	Selecting the Desired Solid Form by Membrane Crystallizers: Crystals or Cocrystals. <i>Crystal Growth and Design</i> , 2012, 12, 4349-4356.	1.4	18
57	Structure and Morphology of PDI ₈ for n-Type Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2012, 22, 943-953.	7.8	50
58	Self-organization of mono- and bi-modal PbS nanocrystal populations in superlattices. <i>CrystEngComm</i> , 2011, 13, 3988.	1.3	28
59	Direct production of carbamazepine-saccharin cocrystals from water/ethanol solvent mixtures by membrane-based crystallization technology. <i>CrystEngComm</i> , 2011, 13, 5670.	1.3	24
60	Size and Shape Dependence of the Photocatalytic Activity of TiO ₂ Nanocrystals: A Total Scattering Debye Function Study. <i>Journal of the American Chemical Society</i> , 2011, 133, 3114-3119.	6.6	112
61	Investigating the Amorphous-Crystalline Interplay in SiO ₂ /TiO ₂ Nanocomposites by Total Scattering Methods. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10828-10833.	7.2	24
62	Debye function analysis and 2D imaging of nanoscaled engineered bone. <i>Biomaterials</i> , 2010, 31, 8289-8298.	5.7	23
63	DEBUSSY: a Debye user system for nanocrystalline materials. <i>Journal of Applied Crystallography</i> , 2010, 43, 1543-1547.	1.9	61
64	Structural and magnetic characterization of Pd nanoparticles encapsulated in apoferritin. <i>Nanotechnology</i> , 2010, 21, 274017.	1.3	9
65	Structural Investigation of Three-Dimensional Self-Assembled PbS Binary Superlattices. <i>Crystal Growth and Design</i> , 2010, 10, 3770-3774.	1.4	11
66	Fine Dosage of Antisolvent in the Crystallization of α -Histidine: Effect on Polymorphism. <i>Crystal Growth and Design</i> , 2010, 10, 449-455.	1.4	41
67	Toward the X-Ray Microdiffraction Imaging of Bone and Tissue-Engineered Bone. <i>Tissue Engineering - Part B: Reviews</i> , 2009, 15, 423-442.	2.5	14
68	Synthesis and Microstructural Investigations of Organometallic Pd(II) Thiol-Gold Nanoparticles Hybrids. <i>Nanoscale Research Letters</i> , 2008, 3, 461-467.	3.1	29
69	Unfolding a two-dimensional powder diffraction image: conformal mapping. <i>Journal of Applied Crystallography</i> , 2008, 41, 701-704.	1.9	4
70	An anelastic spectroscopy, differential scanning calorimetry and X-ray diffraction study of the crystallization process of Mg-Ni-Fe alloys. <i>Journal of Alloys and Compounds</i> , 2008, 463, 148-152.	2.8	2
71	In-line holography and coherent diffractive imaging with x-ray waveguides. <i>Physical Review B</i> , 2008, 77, .	1.1	32
72	Canonical correlation and quantitative phase analysis of microdiffraction patterns in bone-tissue engineering. <i>Journal of Applied Crystallography</i> , 2007, 40, 865-873.	1.9	8

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73	Engineering of bone using bone marrow stromal cells and a silicon-stabilized tricalcium phosphate bioceramic: Evidence for a coupling between bone formation and scaffold resorption. <i>Biomaterials</i> , 2007, 28, 1376-1384.	5.7	126
74	Orientation of mineral crystals by collagen fibers during in vivo bone engineering: An X-ray diffraction imaging study. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 642-647.	1.5	25
75	A Debye function based powder diffraction data analysis method. <i>Zeitschrift für Kristallographie, Supplement</i> , 2007, 2007, 105-110.	0.5	4
76	The instrumental resolution function of synchrotron radiation powder diffractometers in the presence of focusing optics. <i>Journal of Applied Crystallography</i> , 2006, 39, 347-357.	1.9	36
77	Folding a two-dimensional powder diffraction image into a one-dimensional scan: a new procedure. <i>Journal of Applied Crystallography</i> , 2006, 39, 745-748.	1.9	20
78	Size-Dependent Extinction Coefficients of PbS Quantum Dots. <i>Journal of the American Chemical Society</i> , 2006, 128, 10337-10346.	6.6	406
79	Colloidal Synthesis and Characterization of Tetrapod-Shaped Magnetic Nanocrystals. <i>Nano Letters</i> , 2006, 6, 1966-1972.	4.5	140
80	On the efficient evaluation of Fourier patterns for nanoparticles and clusters. <i>Journal of Computational Chemistry</i> , 2006, 27, 995-1008.	1.5	74
81	Synthesis and Microstructural Analysis of Benzylthiol-functionalized Au Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , 2006, 959, 1.	0.1	0
82	Direct methods in powder diffraction applications. , 2006, , 190-201.		0
83	Disentangling instrumental broadening. <i>Journal of Applied Crystallography</i> , 2005, 38, 685-687.	1.9	4
84	Nanoparticle size distribution estimation by a full-pattern powder diffraction analysis. <i>Physical Review B</i> , 2005, 72, .	1.1	23
85	The Quantitative Determination of the Crystalline and the Amorphous Content by the Rietveld Method: Application to Glass Ceramics with Different Absorption Coefficients. <i>Springer Series in Materials Science</i> , 2004, , 147-165.	0.4	5
86	Synthesis and characterization of metal carboxyalkylphosphonates hybrid materials. <i>Solid State Sciences</i> , 2004, 6, 479-487.	1.5	37
87	Quantitative analysis of gold nanoparticles from synchrotron data by means of least-squares techniques. <i>European Physical Journal B</i> , 2004, 41, 485-493.	0.6	30
88	An automatic analysis of strain-depth profile in X-ray microdiffraction. <i>Physica B: Condensed Matter</i> , 2004, 353, 104-110.	1.3	2
89	First experiments at the Swiss Light Source Materials Science beamline powder diffractometer. <i>Journal of Alloys and Compounds</i> , 2004, 362, 206-217.	2.8	44
90	Determination of nanoparticle structure type, size and strain distribution from X-ray data for monatomic f.c.c.-derived non-crystallographic nanoclusters. <i>Journal of Applied Crystallography</i> , 2003, 36, 1148-1158.	1.9	74

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91	Real-space technique applied to crystal structure determination from powder data. <i>Journal of Applied Crystallography</i> , 2002, 35, 182-184.	1.9	5
92	Quantitative phase analysis by combining the Rietveld and the whole-pattern decomposition methods. <i>Journal of Applied Crystallography</i> , 2002, 35, 481-490.	1.9	11
93	Quanto: a Rietveld program for quantitative phase analysis of polycrystalline mixtures. <i>Journal of Applied Crystallography</i> , 2001, 34, 392-397.	1.9	103
94	Structure of Nd ₁₀ W ₂₂ O ₈₁ from high-resolution electron microscopy and X-ray powder diffraction. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 13-19.	1.8	6
95	Two New Organo-Inorganic Hybrid Compounds: Nitrilophosphonates of Aluminum and Copper. <i>Journal of Solid State Chemistry</i> , 2001, 160, 278-286.	1.4	40
96	New techniques for indexing: N-TREOR in EXPO. <i>Journal of Applied Crystallography</i> , 2000, 33, 1180-1186.	1.9	171
97	Completion of crystal structures from powder data: the use of the coordination polyhedra. <i>Journal of Applied Crystallography</i> , 2000, 33, 1305-1310.	1.9	19
98	SIR97: a new tool for crystal structure determination and refinement. <i>Journal of Applied Crystallography</i> , 1999, 32, 115-119.	1.9	8,822
99	EXPO: a program for full powder pattern decomposition and crystal structure solution. <i>Journal of Applied Crystallography</i> , 1999, 32, 339-340.	1.9	445
100	Solving crystal structures from powder data. V. Located molecular fragment and powder-pattern decomposition. <i>Journal of Applied Crystallography</i> , 1999, 32, 963-967.	1.9	12
101	The probability distribution of structure factors with non-integral indices. II. The P1 \hat{A}^- case. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1999, 55, 314-321.	0.3	4
102	Toward EXPO: From the Powder Pattern to the Crystal Structure. <i>Materials Science Forum</i> , 1998, 278-281, 284-288.	0.3	5
103	Solving Crystal Structures from Powder Data: The Use of a Molecular Fragment. <i>Materials Science Forum</i> , 1998, 278-281, 289-293.	0.3	0
104	Solving Crystal Structures from Powder Data. III. The Use of the Probability Distributions for Estimating the F 's. <i>Journal of Applied Crystallography</i> , 1997, 30, 92-97.	1.9	11
105	Early Finding of Preferred Orientation: Applications to Direct Methods. <i>Journal of Applied Crystallography</i> , 1996, 29, 341-345.	1.9	11
106	Solving Crystal Structures from Powder Data. II. Pseudotranslational Symmetry and Powder-Pattern Decomposition. <i>Journal of Applied Crystallography</i> , 1996, 29, 674-681.	1.9	11
107	Solving Crystal Structures from Powder Data. I. The Role of the Prior Information in the Two-Stage Method. <i>Journal of Applied Crystallography</i> , 1996, 29, 667-673.	1.9	7
108	EXTRA: a program for extracting structure-factor amplitudes from powder diffraction data. <i>Journal of Applied Crystallography</i> , 1995, 28, 842-846.	1.9	249

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109	On the Number of Statistically Independent Observations in a Powder Diffraction Pattern. Journal of Applied Crystallography, 1995, 28, 738-744.	1.9	44
110	Negative quartet estimates by embedding of triplet and quintet invariants. Acta Crystallographica Section A: Foundations and Advances, 1995, 51, 305-309.	0.3	5
111	SIR92 " a program for automatic solution of crystal structures by direct methods. Journal of Applied Crystallography, 1994, 27, 435-435.	1.9	655
112	<i>SIRPOW</i> .92 " a program for automatic solution of crystal structures by direct methods optimized for powder data. Journal of Applied Crystallography, 1994, 27, 435-436.	1.9	5,766
113	Early finding of preferred orientation: a new method. Journal of Applied Crystallography, 1994, 27, 1045-1050.	1.9	239
114	Triplet and quartet relationships and the 'positivity' postulate. Acta Crystallographica Section A: Foundations and Advances, 1994, 50, 311-317.	0.3	3
115	Strengthening of quartet invariant estimates via the prior estimation of triplet relationships. Acta Crystallographica Section A: Foundations and Advances, 1994, 50, 325-329.	0.3	0
116	Ab initio direct phasing of proteins: the limits. Zeitschrift Fur Kristallographie - Crystalline Materials, 1994, 209, 136-142.	0.4	5
117	Completion and refinement of crystal structures with SIR92. Journal of Applied Crystallography, 1993, 26, 343-350.	1.9	5,008
118	On the reliability of quartet estimates. Acta Crystallographica Section A: Foundations and Advances, 1993, 49, 342-346.	0.3	8
119	Allowance for Debye scattering in Wilson-plot least-squares procedures. Zeitschrift für Kristallographie, 1992, 200, 63-71.	1.1	4
120	Improved figures of merit for direct methods. Acta Crystallographica Section A: Foundations and Advances, 1992, 48, 859-865.	0.3	17
121	On the estimation of non-measured diffraction magnitudes. Acta Crystallographica Section A: Foundations and Advances, 1991, 47, 480-484.	0.3	7
122	About the treatment of weak reflexions in direct procedures. Acta Crystallographica Section A: Foundations and Advances, 1991, 47, 698-702.	0.3	6
123	Ligand-induced symmetry breaking, size and morphology in colloidal lead sulfide QDs: from classic to thiourea precursors. , 0, 2, 1.		8