

Alberto Leonardi

List of Publications by Citations

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

22
papers

270
citations

11
h-index

15
g-index

23
ext. papers

325
ext. citations

5.4
avg, IF

3.62
L-index

#	Paper	IF	Citations
22	Common volume functions and diffraction line profiles of polyhedral domains. <i>Journal of Applied Crystallography</i> , 2012 , 45, 1162-1172	3.8	33
21	Achieving Highly Durable Random Alloy Nanocatalysts through Intermetallic Cores. <i>ACS Nano</i> , 2019 , 13, 4008-4017	16.7	26
20	Effect of lattice mismatch and shell thickness on strain in core@shell nanocrystals. <i>Nanoscale Advances</i> , 2020 , 2, 1105-1114	5.1	20
19	On the reliability of powder diffraction Line Profile Analysis of plastically deformed nanocrystalline systems. <i>Scientific Reports</i> , 2016 , 6, 20712	4.9	20
18	Realistic nano-polycrystalline microstructures: beyond the classical Voronoi tessellation. <i>Philosophical Magazine</i> , 2012 , 92, 986-1005	1.6	19
17	Imaging the kinetics of anisotropic dissolution of bimetallic core-shell nanocubes using graphene liquid cells. <i>Nature Communications</i> , 2020 , 11, 3041	17.4	18
16	Structure and morphology of shape-controlled Pd nanocrystals. <i>Journal of Applied Crystallography</i> , 2015 , 48, 1534-1542	3.8	17
15	Debye-Waller coefficient of heavily deformed nanocrystalline iron. <i>Journal of Applied Crystallography</i> , 2017 , 50, 508-518	3.8	16
14	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
13	Strain in atomistic models of nanocrystalline clusters. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 8546-53	1.3	12
12	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
11	High-performance powder diffraction pattern simulation for large-scale atomistic models via full-precision pair distribution function computation. <i>Journal of Applied Crystallography</i> , 2016 , 49, 1593-1608	3.8	10
10	Particle Shape Control via Etching of Core@Shell Nanocrystals. <i>ACS Nano</i> , 2018 , 12, 9186-9195	16.7	9
9	Atomistic interpretation of microstrain in diffraction line profile analysis. <i>Thin Solid Films</i> , 2013 , 530, 40-43	2.2	9
8	Atomistic modelling of polycrystalline microstructures: An evolutionary approach to overcome topological restrictions. <i>Computational Materials Science</i> , 2013 , 67, 238-242	3.2	9
7	Atomistic Model of Metal Nanocrystals with Line Defects: Contribution to Diffraction Line Profile. <i>Frontiers in Materials</i> , 2015 , 1,	4	8
6	Interactions of lattice distortion fields in nano polycrystalline materials revealed by molecular dynamics and X-ray powder diffraction. <i>Acta Materialia</i> , 2017 , 133, 380-392	8.4	7

5	Eshelby twist and correlation effects in diffraction from nanocrystals. <i>Journal of Applied Physics</i> , 2015 , 117, 164304	2.5	7
4	Understanding Powder X-ray Diffraction Profiles from Layered Minerals: The Case of Kaolinite Nanocrystals. <i>Inorganic Chemistry</i> , 2020 , 59, 5357-5367	5.1	3
3	Diffraction line broadening from nanocrystals under large hydrostatic pressures. <i>Powder Diffraction</i> , 2013 , 28, S184-S196	1.8	1
2	Whole pair distribution function modeling: the bridging of Bragg and Debye scattering theories. <i>IUCrJ</i> , 2021 , 8, 257-269	4.7	1
1	Efficient solution of particle shape functions for the analysis of powder total scattering data.. <i>Journal of Applied Crystallography</i> , 2022 , 55, 329-339	3.8	0