

Anna V Ceguerra

List of Publications by Year in descending order

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56
papers

1,724
citations

236925

25
h-index

276875

41
g-index

57
all docs

57
docs citations

57
times ranked

1893
citing authors

#	ARTICLE	IF	CITATIONS
1	Atom Probe Analysis of a Zr-based Bulk Metallic Glass. <i>Microscopy and Microanalysis</i> , 2022, 28, 1348-1358.	0.4	1
2	Effects of thermal annealing on the distribution of boron and phosphorus in p-i-n structured silicon nanocrystals embedded in silicon dioxide. <i>Nanotechnology</i> , 2022, 33, 075709.	2.6	5
3	Deformation-induced medium-range order changes in bulk metallic glasses. <i>Physical Review Materials</i> , 2022, 6, .	2.4	4
4	Medium-range order dictates local hardness in bulk metallic glasses. <i>Materials Today</i> , 2021, 44, 48-57.	14.2	47
5	Community-Driven Methods for Open and Reproducible Software Tools for Analyzing Datasets from Atom Probe Microscopy. <i>Microscopy and Microanalysis</i> , 2021, , 1-16.	0.4	2
6	Integrative Atom Probe Tomography Using Scanning Transmission Electron Microscopy-Centric Atom Placement as a Step Toward Atomic-Scale Tomography. <i>Microscopy and Microanalysis</i> , 2021, 27, 140-148.	0.4	8
7	3D microstructure analysis of silicon-boron phosphide mixed nanocrystals. <i>Nanoscale</i> , 2020, 12, 7256-7262.	5.6	3
8	Roles of Nd and Mn in a new creep-resistant magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 779, 139152.	5.6	25
9	Interpreting the Simplified Multicomponent Short-Range Order Parameter. <i>Microscopy and Microanalysis</i> , 2019, 25, 332-333.	0.4	0
10	Medium-Mn Martensitic Steel Ductilized by Baking. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4067-4074.	2.2	27
11	Distribution of boron and phosphorus and roles of co-doping in colloidal silicon nanocrystals. <i>Acta Materialia</i> , 2019, 178, 186-193.	7.9	12
12	Understanding solid solution strengthening at elevated temperatures in a creep-resistant Mg-Gd-Ca alloy. <i>Acta Materialia</i> , 2019, 181, 185-199.	7.9	71
13	Correlative study of lattice imperfections in long-range ordered, nano-scale domains in a Fe-Co-Mo alloy. <i>Ultramicroscopy</i> , 2019, 204, 91-100.	1.9	5
14	Assessing the Spatial Accuracy of the Reconstruction in Atom Probe Tomography and a New Calibratable Adaptive Reconstruction. <i>Microscopy and Microanalysis</i> , 2019, 25, 309-319.	0.4	10
15	Introducing a Crystallography-Mediated Reconstruction (CMR) Approach to Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 288-300.	0.4	6
16	Atom Probe Tomography of Aluminium Alloys: A Systematic Meta-Analysis Review of 2018. <i>Metals</i> , 2019, 9, 1071.	2.3	2
17	On the retrieval of crystallographic information from atom probe microscopy data via signal mapping from the detector coordinate space. <i>Ultramicroscopy</i> , 2018, 189, 65-75.	1.9	14
18	Precipitation of string-shaped morphologies consisting of aligned β' phase in a metastable β^2 titanium alloy. <i>Scientific Reports</i> , 2018, 8, 2038.	3.3	3

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19	Yield Strength Enhancement by Carbon Trapping in Ferrite of the Quenching and Partitioning Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 235-240.	2.2	12
20	Sydney Nano: small matters for big impact. Biophysical Reviews, 2018, 10, 101-103.	3.2	0
21	Nucleation driving force for γ -assisted formation of δ and associated γ morphology in β -Ti alloys. Scripta Materialia, 2018, 155, 149-154.	5.2	31
22	Grain size stabilization of mechanically alloyed nanocrystalline Fe-Zr alloys by forming highly dispersed coherent Fe-Zr-O nanoclusters. Acta Materialia, 2018, 158, 340-353.	7.9	41
23	A nexus between 3D atomistic data hybrids derived from atom probe microscopy and computational materials science: A new analysis of solute clustering in Al-alloys. Scripta Materialia, 2017, 131, 93-97.	5.2	19
24	Atom probe tomography of size-controlled phosphorus doped silicon nanocrystals. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600376.	2.4	10
25	A New Approach to Understand the Adsorption of Thiophene on Different Surfaces: An Atom Probe Investigation of Self-Assembled Monolayers. Langmuir, 2017, 33, 9573-9581.	3.5	11
26	Microstructure analysis of silicon nanocrystals formed from silicon rich oxide with high excess silicon: Annealing and doping effects. Journal of Applied Physics, 2017, 122, 025102.	2.5	11
27	A lightweight single-phase AlTiVCr compositionally complex alloy. Acta Materialia, 2017, 123, 115-124.	7.9	151
28	Atom probe tomography of phosphorus- and boron-doped silicon nanocrystals with various compositions of silicon rich oxide. MRS Communications, 2016, 6, 283-288.	1.8	13
29	Structural, optical, and electrical properties of silicon nanocrystals fabricated by high silicon content silicon-rich oxide and silicon dioxide bilayers. Applied Physics Express, 2016, 9, 115001.	2.4	3
30	Superelasticity and Tunable Thermal Expansion across a Wide Temperature Range. Journal of Materials Science and Technology, 2016, 32, 705-709.	10.7	72
31	Atom Probe Tomography Analysis of Boron and/or Phosphorus Distribution in Doped Silicon Nanocrystals. Journal of Physical Chemistry C, 2016, 120, 17845-17852.	3.1	62
32	New insights into the phase transformations to isothermal γ and γ -assisted δ in near β -Ti alloys. Acta Materialia, 2016, 106, 353-366.	7.9	155
33	Precipitation behaviors of cubic and tetragonal Zr-rich phase in Al-(Si)Zr alloys. Journal of Alloys and Compounds, 2016, 674, 125-130.	5.5	41
34	The Use of Online Tools in Microscopy and Microanalysis Core Facilities. Microscopy and Microanalysis, 2015, 21, 527-528.	0.4	2
35	Atom probe tomography investigation of heterogeneous short-range ordering in the ϵ -complex phase state (K-state) of Fe-18Al (at.%). Intermetallics, 2015, 64, 23-31.	3.9	18
36	Quantitative chemical-structure evaluation using atom probe tomography: Short-range order analysis of Fe-Al. Ultramicroscopy, 2015, 157, 12-20.	1.9	26

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37	A new systematic framework for crystallographic analysis of atom probe data. <i>Ultramicroscopy</i> , 2015, 154, 7-14.	1.9	27
38	Interpreting atom probe data from chromium oxide scales. <i>Ultramicroscopy</i> , 2015, 159, 354-359.	1.9	29
39	Restoring the lattice of Si-based atom probe reconstructions for enhanced information on dopant positioning. <i>Ultramicroscopy</i> , 2015, 159, 314-323.	1.9	19
40	Detecting and extracting clusters in atom probe data: A simple, automated method using Voronoi cells. <i>Ultramicroscopy</i> , 2015, 150, 30-36.	1.9	44
41	Atomically resolved tomography to directly inform simulations for structure–property relationships. <i>Nature Communications</i> , 2014, 5, 5501.	12.8	53
42	Point-by-point compositional analysis for atom probe tomography. <i>MethodsX</i> , 2014, 1, 12-18.	1.6	17
43	The rise of computational techniques in atom probe microscopy. <i>Current Opinion in Solid State and Materials Science</i> , 2013, 17, 224-235.	11.5	25
44	Quantitative dopant distributions in GaAs nanowires using atom probe tomography. <i>Ultramicroscopy</i> , 2013, 132, 186-192.	1.9	29
45	A Tool for Scientific Provenance of Data and Software. , 2013, , .		2
46	Spatial decomposition of molecular ions within 3D atom probe reconstructions. <i>Ultramicroscopy</i> , 2013, 132, 92-99.	1.9	5
47	Applying computational geometry techniques for advanced feature analysis in atom probe data. <i>Ultramicroscopy</i> , 2013, 132, 100-106.	1.9	37
48	Short-range order in multicomponent materials. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, 547-560.	0.3	47
49	Magnetism of Co-doped ZnO epitaxially grown on a ZnO substrate. <i>Physical Review B</i> , 2012, 85, .	3.2	54
50	Crystallographic structural analysis in atom probe microscopy via 3D Hough transformation. <i>Ultramicroscopy</i> , 2011, 111, 458-463.	1.9	59
51	Lattice Rectification in Atom Probe Tomography: Toward True Three-Dimensional Atomic Microscopy. <i>Microscopy and Microanalysis</i> , 2011, 17, 226-239.	0.4	58
52	Quantitative description of atomic architecture in solid solutions: A generalized theory for multicomponent short-range order. <i>Physical Review B</i> , 2010, 82, .	3.2	35
53	A three-dimensional Markov field approach for the analysis of atomic clustering in atom probe data. <i>Philosophical Magazine</i> , 2010, 90, 1657-1683.	1.6	56
54	Quantitative binomial distribution analyses of nanoscale like–solute atom clustering and segregation in atom probe tomography data. <i>Microscopy Research and Technique</i> , 2008, 71, 542-550.	2.2	198

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55	Tracking Nanostructural Evolution in Alloys: Large-Scale Analysis of Atom Probe Tomography Data on Blue Gene/L. , 2008, , .		4
56	Automatic Fingerprint Verification Using Neural Networks. Lecture Notes in Computer Science, 2002, , 1281-1286.	1.3	3