

Louisa Meshi

List of Publications by Year in descending order

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84
papers

1,485
citations

361296

20
h-index

360920

35
g-index

85
all docs

85
docs citations

85
times ranked

2181
citing authors

#	ARTICLE	IF	CITATIONS
1	Shock wave determination of temperature dependence of twinning stress in vanadium and tantalum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 833, 142537.	2.6	8
2	In-depth characterization of stacking faults forming during the growth of Transition-Metal Di-Chalcogenides (TMDCs) by ambient pressure-CVD. <i>Materials Characterization</i> , 2022, 184, 111666.	1.9	9
3	Structure solution of the $\text{Al}_{69.2}\text{Cu}_{20}\text{Cr}_{10.8}$ $\bar{1}$ phase. <i>Journal of Applied Crystallography</i> , 2022, 55, 74-79.	1.9	0
4	Influence of alloying elements and the state of order on the formation of antiphase boundaries in B2 phases. <i>Intermetallics</i> , 2022, 141, 107434.	1.8	4
5	Electron Diffraction Study of the Space Group Variation in the Al-Mn-Pt T-Phase. <i>Symmetry</i> , 2022, 14, 38.	1.1	1
6	Direct observation of initial stages of precipitation hardening process in commercial Al 6061 alloy. <i>Journal of Materials Science</i> , 2022, 57, 10395-10406.	1.7	1
7	Kinetics of the $\bar{1}$ phase separation in a 14%Cr oxide dispersion steel at intermediate temperatures. <i>Materials Letters</i> , 2021, 285, 129088.	1.3	0
8	Structural study of $\text{Al}_{78}\text{Mn}_{17.5}\text{Pt}_{4.5}$ and (re)constitution of the Al-Mn-Pt system in its vicinity. <i>Journal of Alloys and Compounds</i> , 2021, 861, 158328.	2.8	3
9	Shock-induced twinning in polycrystalline vanadium: II. Surface layer. <i>Materials Characterization</i> , 2021, 175, 111062.	1.9	1
10	Electroplating of Pure Aluminum from $[\text{HMIIm}][\text{TFSI}]\text{-AlCl}_3$ Room-Temperature Ionic Liquid. <i>Coatings</i> , 2021, 11, 1414.	1.2	5
11	Deformation in nanocrystalline ceramics: A microstructural study of MgAl_2O_4 . <i>Acta Materialia</i> , 2020, 183, 137-144.	3.8	27
12	Characterization of nano-sized particles in 14%Cr oxide dispersion strengthened (ODS) steel using classical and frontier microscopy methods. <i>Materials Characterization</i> , 2020, 160, 110075.	1.9	6
13	Novel $\text{AlCrFeNiNb}_{0.3}$ high entropy alloy: Microstructure, properties and an unknown Nb-rich intermetallide. <i>Intermetallics</i> , 2020, 127, 106965.	1.8	10
14	Understanding the Role of the Constituting Elements of the AlCoCrFeNi High Entropy Alloy through the Investigation of Quaternary Alloys. <i>Metals</i> , 2020, 10, 1275.	1.0	19
15	Bonding and Stability of Ternary Structures in the $\text{Ce}_2\text{Al}_2\text{O}$ (T=Ta, W, Re) and $\text{YRe}_2\text{Al}_2\text{O}$ Alloys. <i>Metals</i> , 2020, 10, 422.	1.0	3
16	Shock wave characterization of precipitate strengthening of PH 13-8 Mo stainless steel. <i>Acta Materialia</i> , 2020, 187, 176-185.	3.8	13
17	Structure characterization of novel alluminides in the Nd-Re-Al system by electron crystallography methods. <i>Materials Characterization</i> , 2020, 168, 110562.	1.9	2
18	Explanation of structural differences and similarities between the $\text{AT}_2\text{Al}_{10}$ phases (where A=actinide, lanthanide or rare earth element and T=transition metal). <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2019, 234, 595-603.	0.4	2

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19	Retardation of the γ' phase formation in the AlCoCrFeNi multi-component alloy. <i>Materials Characterization</i> , 2019, 148, 171-177.	1.9	28
20	Characterization of Atomic Structures of Nanosized Intermetallic Compounds Using Electron Diffraction Methods. <i>Advanced Materials</i> , 2018, 30, e1706704.	11.1	6
21	Radiation Resistance of the U(Al, Si) ₃ Alloy: Ion-Induced Disorder. <i>Materials</i> , 2018, 11, 228.	1.3	6
22	The relation between Mn additions, microstructure and corrosion behavior of new wrought Mg-5Al alloys. <i>Materials Characterization</i> , 2018, 145, 101-115.	1.9	42
23	Structure and peculiarities of bonding in the Al-rich A-Mn-Al alloys (where A=Y, Gd, Th and U). <i>Intermetallics</i> , 2018, 100, 44-51.	1.8	5
24	Friction stir welded AM50 and AZ31 Mg alloys: Microstructural evolution and improved corrosion resistance. <i>Materials Characterization</i> , 2017, 126, 86-95.	1.9	33
25	Heat treatments' effects on the microstructure and mechanical properties of an equiatomic Al-Cr-Fe-Mn-Ni high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 689, 384-394.	2.6	71
26	Assembly of mesoscale helices with near-unity enantiomeric excess and light-matter interactions for chiral semiconductors. <i>Science Advances</i> , 2017, 3, e1601159.	4.7	135
27	Long-period antiphase domains and short-range order in a B2 matrix of the AlCoCrFeNi high-entropy alloy. <i>Scripta Materialia</i> , 2017, 139, 49-52.	2.6	65
28	Nanometric diamond delta doping with boron. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1600329.	1.2	27
29	Ordered U(Al, Si) ₃ phase: Structure and bonding. <i>Journal of Alloys and Compounds</i> , 2017, 690, 884-889.	2.8	7
30	Structure of $\langle A \rangle \langle T \rangle$ Aluminides ($\langle A \rangle$ = actinide/lanthanide; $\langle T \rangle$ = transition) <i>Journal of Alloys and Compounds</i> , 2017, 690, 884-889.	2.8	7
31	Electrochemical Intercalation of Lithium Ions into NbSe ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11390-11395.	4.0	56
32	Effect of oxygen pressure on structure and ionic conductivity of epitaxial Li _{0.33} La _{0.55} TiO ₃ solid electrolyte thin films produced by pulsed laser deposition. <i>RSC Advances</i> , 2016, 6, 61974-61983.	1.7	21
33	Refinement of the Al-rich part of the Al-Cu-Re phase diagram and atomic model of the ternary Al _{6.2} Cu ₂ Re phase. <i>Journal of Alloys and Compounds</i> , 2016, 670, 18-24.	2.8	4
34	Crystal structure of the Th ₂ Ni ₁₀ Al ₁₅ phase solved using electron diffraction tomography. <i>Journal of Alloys and Compounds</i> , 2016, 660, 496-502.	2.8	6
35	Structural changes as a function of transition metal's (T) type in the Th ₂ Al ₂₀ alloys. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s236-s236.	0.0	0
36	A study of the Al-Pt-Ir phase diagram. <i>Journal of Alloys and Compounds</i> , 2015, 646, 873-878.	2.8	6

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37	Combinatorial synthesis and high-throughput characterization of the thin film materials system Co-Mn-Ge: Composition, structure, and magnetic properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1969-1974.	0.8	9
38	New Nanocrystalline Materials: A Previously Unknown Simple Cubic Phase in the SnS Binary System. <i>Nano Letters</i> , 2015, 15, 2174-2179.	4.5	126
39	Addressing the issue of precipitates in maraging steels – Unambiguous answer. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 638, 232-239.	2.6	63
40	Elastic consideration of the precipitation in model alloys of maraging steels: theory and experimental validation. <i>Journal of Materials Science</i> , 2015, 50, 4970-4979.	1.7	18
41	Abrupt symmetry decrease in the ThT ₂ Al ₂₀ alloys (T = 3d transition metal). <i>Journal of Alloys and Compounds</i> , 2015, 648, 353-359.	2.8	14
42	Formation of Complex Intermetallics in the Al-Rich Part of Al-Pt-Ru. <i>Journal of Phase Equilibria and Diffusion</i> , 2015, 36, 327-332.	0.5	7
43	Sensitivity of thermo-electric power measurements to $\pm \hat{I}^2$ phase separation in Cr-rich oxide dispersion strengthened steels. <i>Journal of Materials Science</i> , 2015, 50, 4629-4635.	1.7	8
44	Thermodynamic modeling of Al–U–X (X = Si,Zr). <i>Journal of Nuclear Materials</i> , 2015, 464, 170-184.	1.3	19
45	Characterization of new aluminides found in the ThT ₂ Al ₂₀ alloys (where T = Ti, V, Mn). <i>Journal of Alloys and Compounds</i> , 2015, 641, 1-6.	2.8	19
46	Addressing a “Black Box” of Bottom-Up Synthesis: Revealing the Structures of Growing Colloidal-Nanocrystal Nuclei. <i>Inorganic Chemistry</i> , 2015, 54, 10521-10523.	1.9	1
47	The origin of the effect of aging on the thermoelectric power of maraging C250 steel. <i>Journal of Materials Science</i> , 2015, 50, 7698-7704.	1.7	2
48	Increased corrosion resistance of the AZ80 magnesium alloy by rapid solidification. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 1541-1548.	1.6	14
49	Crystal structures of the Al–Ti–Pt $\bar{1},5$ and $\bar{1},6$ phases solved by zonal precession electron diffraction. <i>Journal of Alloys and Compounds</i> , 2015, 621, 47-52.	2.8	6
50	Atomic structure solution of the complex quasicrystal approximant Al ₇₇ Rh ₁₅ Ru ₈ from electron diffraction data. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 999-1005.	0.5	13
51	New ordered phase in the quasi-binary UAl ₃ –USi ₃ system. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 580-585.	0.5	11
52	Strategies for full structure solution of intermetallic compounds using precession electron diffraction zonal data. <i>Journal of Applied Crystallography</i> , 2014, 47, 1032-1041.	1.9	6
53	A study of the Al–Pd–Pt alloy system. <i>Journal of Alloys and Compounds</i> , 2014, 600, 125-129.	2.8	7
54	Study of ternary complex Al–Mg–Ag intermetallics using Precession Electron Diffraction. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013, 228, 59-62.	0.4	2

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55	Characterization of structural defects in highly mismatched GaP nanowires. <i>Materials Letters</i> , 2013, 113, 38-41.	1.3	0
56	Evaluation of microstructural damage and alteration of polytypes to determine the aging of silicon carbide. , 2013, , .		0
57	Microstructural Evolution of Cr-Rich ODS Steels as a Function of Heat Treatment at 475Å°C. <i>Metallography, Microstructure, and Analysis</i> , 2012, 1, 158-164.	0.5	8
58	Regioselective placement of alkanethiolate domains on tetrahedral and octahedral gold nanocrystals. <i>Chemical Communications</i> , 2012, 48, 9765.	2.2	14
59	Orientations of polyoxometalate anions on gold nanoparticles. <i>Dalton Transactions</i> , 2012, 41, 9849.	1.6	20
60	Crystal structure of a new quaternary Mgâ€“Znâ€“Caâ€“Li phase. <i>Intermetallics</i> , 2012, 22, 62-67.	1.8	4
61	A study of the Al-rich part of the Alâ€“Niâ€“Pt alloy system. <i>Journal of Alloys and Compounds</i> , 2012, 514, 60-63.	2.8	13
62	Polyoxometalate-directed assembly of water-soluble AgCl nanocubes. <i>Chemical Communications</i> , 2012, 48, 2207.	2.2	12
63	Friction, wear and structure of Cu samples in the lubricated steady friction state. <i>Tribology International</i> , 2012, 46, 154-160.	3.0	22
64	New orthorhombic phase in Uâ€“Feâ€“Alâ€“Si system. <i>Journal of Alloys and Compounds</i> , 2011, 509, 206-209.	2.8	5
65	New complex intermetallic in the Alâ€“Rhâ€“Ru alloy system. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6551-6555.	2.8	11
66	An investigation of the Alâ€“Rhâ€“Ru phase diagram above 50at.% Al. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8018-8021.	2.8	8
67	Why UFe _x Al _{12-[~]x} phase does not crystallize with ThMn ₁₂ -structure type, when x=Å2?. <i>Intermetallics</i> , 2011, 19, 713-720.	1.8	11
68	Dislocation structure and hardness of surface layers under friction of copper in different lubricant conditions. <i>Acta Materialia</i> , 2011, 59, 342-348.	3.8	38
69	GaN devices based on nanorods. <i>Journal of Physics: Conference Series</i> , 2010, 209, 012001.	0.3	6
70	Size-dependent spin state and ferromagnetism in La _{0.8} Ca _{0.2} CoO ₃ nanoparticles. <i>Journal of Applied Physics</i> , 2010, 108, 063907.	1.1	17
71	Liquidus projection of Al-rich corner of the ternary Alâ€“Feâ€“U system. <i>Intermetallics</i> , 2010, 18, 2119-2123.	1.8	2
72	Crystal structure of the Al ₂ Cu _l r phase. <i>Journal of Alloys and Compounds</i> , 2010, 496, 208-211.	2.8	3

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73	Identification of a new hexagonal phase in the Al-Cu-Re system. Journal of Alloys and Compounds, 2009, 488, 108-111.	2.8	5
74	Self-Assembly and Structure of Directly Imaged Inorganic-Anion Monolayers on a Gold Nanoparticle. Journal of the American Chemical Society, 2009, 131, 17412-17422.	6.6	102
75	The reduction of threading dislocations in GaN using a GaN nanocolumn interlayer. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 1645-1647.	0.8	8
76	Defect-controlled growth of GaN nanorods on (0001)sapphire by molecular beam epitaxy. Applied Physics Letters, 2008, 93, 111911.	1.5	24
77	Direct Imaging of the Ligand Monolayer on an Anion-Protected Metal Nanoparticle through Cryogenic Trapping of its Solution-State Structure. Journal of the American Chemical Society, 2008, 130, 16480-16481.	6.6	45
78	Determination of the structure of a new tetragonal U ₂ FeAl ₂₀ phase. Journal of Alloys and Compounds, 2008, 460, 196-200.	2.8	4
79	Defect reduction in GaN/(0001)sapphire films grown by molecular beam epitaxy using nanocolumn intermediate layers. Applied Physics Letters, 2008, 92, .	1.5	63
80	Nano-pendeo GaN Growth of Light Emitting Devices on Silicon. Journal of Light and Visual Environment, 2008, 32, 187-190.	0.2	1
81	Tetragonal phase in Al-rich region of U-Fe-Al system. Journal of Alloys and Compounds, 2005, 402, 84-88.	2.8	9
82	The structure of the ternary aluminide ThFe ₂ Al ₁₀ . Intermetallics, 2005, 13, 792-795.	1.8	13
83	Determination of the structure of UFe ₂ Al ₁₀ compound. Journal of Alloys and Compounds, 2004, 370, 206-210.	2.8	19
84	Identification of the structure of a new Al-U-Fe phase by electron microdiffraction technique. Journal of Alloys and Compounds, 2002, 347, 178-183.	2.8	21