Mark Aindow

List of Publications by Year
in descending order

347 papers	7,431 citations	66234 42 h-index	82410 72 g-index
354 all docs	354 docs citations	354 times ranked	7750 citing authors

#	Article	IF	Citations
1	ZnO with Different Morphologies Synthesized by Solvothermal Methods for Enhanced Photocatalytic Activity. Chemistry of Materials, 2009, 21, 2875-2885.	3.2	444
2	Effect of self-accommodation on Î±/Î± boundary populations in pure titanium. Acta Materialia, 2003, 51, 2485-2503.	3.8	266
3	Synthesis and Catalytic Activity of Cryptomelane-Type Manganese Dioxide Nanomaterials Produced by a Novel Solvent-Free Method. Chemistry of Materials, 2005, 17, 5382-5389.	3.2	229
4	Hydrothermal Synthesis of Structure- and Shape-Controlled Manganese Oxide Octahedral Molecular Sieve Nanomaterials. Advanced Functional Materials, 2006, 16, 1247-1253.	7.8	212
5	Hydrothermal Growth of Manganese Dioxide into Three-Dimensional Hierarchical Nanoarchitectures. Advanced Functional Materials, 2006, 16, 549-555.	7.8	195
6	Effect of heat treatments on microstructural evolution of additively manufactured and wrought 17-4PH stainless steel. Materials and Design, 2018, 156, 429-440.	3.3	169
7	Control of Nanometer-Scale Tunnel Sizes of Porous Manganese Oxide Octahedral Molecular Sieve Nanomaterials. Advanced Materials, 2005, 17, 805-809.	11.1	159
8	Pseudo-elastic deformation behavior in a Ti/Mo-based alloy. Scripta Materialia, 2004, 50, 343-348.	2.6	121
9	Effects of Alkali Metal and Ammonium Cation Templates on Nanofibrous Cryptomelane-type Manganese Oxide Octahedral Molecular Sieves (OMS-2). Journal of Physical Chemistry B, 2003, 107, 9185-9194.	1.2	115
10	Preparation of Platinum/Carbon Aerogel Nanocomposites Using a Supercritical Deposition Method. Journal of Physical Chemistry B, 2004, 108, 7716-7722.	1.2	108
11	Investigation of the supercritical deposition of platinum nanoparticles into carbon aerogels. Microporous and Mesoporous Materials, 2005, 80, 11-23.	2.2	105
12	Supported Platinum Nanoparticles by Supercritical Deposition. Industrial & Engineering Chemistry Research, 2005, 44, 4161-4164.	1.8	101
13	Behavior of H2 chemisorption on Ru/TiO2 surface and its application in evaluation of Ru particle sizes compared with TEM and XRD analyses. Applied Catalysis A: General, 2008, 335, 187-195.	2.2	95
14	The mechanical properties and the deformation microstructures of the C15 Laves phase Cr2Nb at high temperatures. Acta Materialia, 2007, 55, 1873-1884.	3.8	88
15	In situ Synthesis of Mixed-Valent Manganese Oxide Nanocrystals:Â An In situ Synchrotron X-ray Diffraction Study. Journal of the American Chemical Society, 2006, 128, 4570-4571.	6.6	85
16	Grain growth and particle pinning in a model Ni-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 479, 365-372.	2.6	85
17	Facet-dependent catalytic activity of MnO electrocatalysts for oxygen reduction and oxygen evolution reactions. Chemical Communications, 2015, 51, 5951-5954.	2.2	84
18	Effects of low-power plasma treatment on polyethylene surfaces. Surface and Interface Analysis, 1995, 23, 319-327.	0.8	83

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19	Formation of spinel reaction layers in manganese cobaltite â€“ coated Crofer22 APU for solid oxide fuel cell interconnects. Journal of Power Sources, 2013, 227, 318-326.	4.0	81
20	Amine-Assisted Facetted Etching of CdSe Nanocrystals. Journal of the American Chemical Society, 2005, 127, 2524-2532.	6.6	80
21	Preparation and Characterization of Ruthenium/Carbon Aerogel Nanocomposites via a Supercritical Fluid Route. Journal of Physical Chemistry B, 2005, 109, 2617-2624.	1.2	78
22	Size Control, Metal Substitution, and Catalytic Application of Cryptomelane Nanomaterials Prepared Using Cross-linking Reagents. Chemistry of Materials, 2004, 16, 276-285.	3.2	76
23	Non-metallic inclusions in 17-4PH stainless steel parts produced by selective laser melting. Materials and Design, 2018, 140, 153-162.	3.3	76
24	Interfacial dislocation mechanism for diffusional phase transformations exhibiting martensitic crystallography: formation of TiAl + Ti3Al lamellae. Acta Materialia, 2000, 48, 1047-1053.	3.8	70
25	Preparation of carbon black supported Pd, Pt and Pdâ€“Pt nanoparticles using supercritical CO2 deposition. Journal of Supercritical Fluids, 2009, 50, 82-90.	1.6	70
26	Selective hydrogenation of CO2 and CO to useful light olefins over octahedral molecular sieve manganese oxide supported iron catalysts. Applied Catalysis B: Environmental, 2013, 132-133, 54-61.	10.8	70
27	Dielectric response and tunability of a dielectric-paraelectric composite. Applied Physics Letters, 2008, 93, 102908.	1.5	66
28	Pt-based electrocatalysts for polymer electrolyte membrane fuel cells prepared by supercritical deposition technique. Journal of Power Sources, 2008, 179, 532-540.	4.0	64
29	Synthesis, Characterization, and Catalytic Applications of Manganese Oxide Octahedral Molecular Sieve (OMS) Nanowires with a 2 Ã— 3 Tunnel Structure. Chemistry of Materials, 2004, 16, 5327-5335.	3.2	57
30	Decoration of multi-wall carbon nanotubes with platinum nanoparticles using supercritical deposition with thermodynamic control of metal loading. Scripta Materialia, 2007, 56, 101-103.	2.6	57
31	Corrosion, oxidation, erosion and performance of Ag/W-based circuit breaker contacts: A review. Corrosion Science, 2018, 135, 12-34.	3.0	54
32	Nucleation of stress-induced martensites in a Ti/Mo-based alloy. Journal of Materials Science, 2005, 40, 2833-2836.	1.7	53
33	A study of surface cross-hatch and misfit dislocation structure in grown by chemical beam epitaxy. Journal of Crystal Growth, 1995, 149, 1-11.	0.7	52
34	Magnesium Manganese Oxide Nanoribbons:Â Synthesis, Characterization, and Catalytic Application. Journal of Physical Chemistry B, 2002, 106, 9761-9768.	1.2	52
35	Shape Evolution of Single-Crystalline Mn2O3Using a Solvothermal Approach. Journal of Physical Chemistry C, 2007, 111, 14694-14697.	1.5	52
36	The effect of recycling on the oxygen distribution in Ti-6Al-4V powder for additive manufacturing. Materials at High Temperatures, 2018, 35, 217-224.	0.5	52

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37	Adsorption of Pt(cod)me2 onto organic aerogels from supercritical solutions for the synthesis of supported platinum nanoparticles. Journal of Supercritical Fluids, 2011, 56, 105-113.	1.6	50
38	Graphene Aerogel Supported Pt Electrocatalysts for Oxygen Reduction Reaction by Supercritical Deposition. Electrochimica Acta, 2017, 250, 174-184.	2.6	50
39	Mesoscale modeling of jet initiation behavior and microstructural evolution during cold spray single particle impact. Acta Materialia, 2020, 182, 197-206.	3.8	48
40	Effects of alloy heat treatment on oxidation kinetics and scale morphology for Crofer 22 APU. Journal of Power Sources, 2013, 241, 756-767.	4.0	47
41	On the role of the pore filling medium in photoluminescence from photochemically etched porous silicon. Journal of Applied Physics, 2000, 88, 2472-2479.	1.1	46
42	The structure of ribbon borides in a Ti-44Al-4Nb-4Zr-1B alloy. Intermetallics, 2006, 14, 759-769.	1.8	46
43	Identification of Desirable Precursor Properties for Solution Precursor Plasma Spray. Journal of Thermal Spray Technology, 2011, 20, 802-816.	1.6	44
44	Dislocation processes during the plastic deformation of Î³-TiAl. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 1045-1071.	0.8	43
45	Phase stability and microstructure in devitrified Al-rich Alâ€“Yâ€“Ni alloys. Intermetallics, 2004, 12, 349-362.	1.8	42
46	Origin of pseudoelastic behavior in Tiâ€“Mo-based alloys. Applied Physics Letters, 2005, 87, 241909.	1.5	42
47	PtPd/BP2000 electrocatalysts prepared by sequential supercritical carbon dioxide deposition. International Journal of Hydrogen Energy, 2010, 35, 11669-11680.	3.8	42
48	Preface to the 50th anniversary issue of the Journal of Materials Science. Journal of Materials Science, 2016, 51, 1-6.	1.7	41
49	Microstructures and mechanical properties of Nbâ€“Tiâ€“C alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 485, 359-366.	2.6	40
50	Thermodynamic Control of Metal Loading and Composition of Carbon Aerogel Supported Ptâ€“Cu Alloy Nanoparticles by Supercritical Deposition. Journal of Physical Chemistry C, 2013, 117, 6777-6787.	1.5	40
51	Cold spray deposition of an icosahedral-phase-strengthened aluminum alloy coating. Surface and Coatings Technology, 2017, 324, 57-63.	2.2	40
52	Nucleation of the lamellar decomposition in a Tiâ€“44Alâ€“4Nbâ€“4Zr alloy. Acta Materialia, 2004, 52, 191-197.	3.8	39
53	Carbon aerogel supported nickel nanoparticles and nanorods using supercritical deposition. Journal of Supercritical Fluids, 2012, 66, 265-273.	1.6	39
54	Thickness dependence of electronic phase transitions in epitaxial V2O3 films on (0001) LiTaO3. Applied Physics Letters, 2008, 93, .	1.5	38

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55	Characterization of the Fe-Doped Mixed-Valent Tunnel Structure Manganese Oxide KOMS-2. Journal of Physical Chemistry C, 2011, 115, 21610-21619.	1.5	38
56	Characterization of the microstructure and phase equilibria calculations for the powder metallurgy superalloy IN100. Journal of Materials Research, 2003, 18, 2653-2663.	1.2	37
57	Techniques for microstructural characterization of powder-processed nickel-based superalloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 360, 390-395.	2.6	36
58	Control of average particle size of carbon aerogel supported platinum nanoparticles by supercritical deposition. Microporous and Mesoporous Materials, 2017, 245, 94-103.	2.2	36
59	Focused Ion Beam Preparation of Specimens for Micro-Electro-Mechanical System-based Transmission Electron Microscopy Heating Experiments. Microscopy and Microanalysis, 2017, 23, 708-716.	0.2	36
60	Precipitate orientation relationships and interfacial structures in duplex stainless steel Zeron-100. Philosophical Magazine, 2003, 83, 1867-1887.	0.7	35
61	Threading dislocation generation in epitaxial (Ba,Sr) TiO3 films grown on (001) LaAlO3 by pulsed laser deposition. Applied Physics Letters, 2004, 84, 1742-1744.	1.5	35
62	Hydrogen-assisted stable crack growth in iron-3 wt% silicon steel. Acta Materialia, 1996, 44, 3125-3140.	3.8	34
63	Defect microstructures in epitaxial PbZr0.2Ti0.8O3 films grown on (001) SrTiO3 by pulsed laser deposition. Journal of Materials Science, 2006, 41, 697-707.	1.7	34
64	Modification of carbon aerogel supports for PEMFC catalysts. International Journal of Hydrogen Energy, 2009, 34, 8992-8997.	3.8	34
65	Topographical development and misfit relief in laser-ablated heteroepitaxial YBa2Cu3O7âˆ'Î´ thin films. Journal of Crystal Growth, 1997, 172, 145-155.	0.7	33
66	A high-resolution electron microscopy study of steps on lamellar Î³-Î±₂interfaces in a low-misfit TiAl-based alloy. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 2553-2575.	0.8	33
67	Thermodynamic and electrostatic analysis of threading dislocations in epitaxial ferroelectric films. Applied Physics Letters, 2006, 88, 102906.	1.5	32
68	Unraveling the Mesoscale Evolution of Microstructure during Supersonic Impact of Aluminum Powder Particles. Scientific Reports, 2018, 8, 10075.	1.6	31
69	Deformation mechanisms in intermetallic compounds based on Nb3Al. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 170, 1-10.	2.6	29
70	Nanostructured arrays of semiconducting octahedral molecular sieves by pulsed-laser deposition. Nature Materials, 2010, 9, 54-59.	13.3	29
71	A Foaming Esterification Solâ€“Gel Route for the Synthesis of Magnesiaâ€“Yttria Nanocomposites. Journal of the American Ceramic Society, 2011, 94, 367-371.	1.9	29
72	Modified Mesoporous Silica for Efficient Siloxane Capture. Langmuir, 2016, 32, 2369-2377.	1.6	29

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73	Microstructure and Micromechanical Response in Gas-Atomized Al 6061 Alloy Powder and Cold-Sprayed Splats. Journal of Thermal Spray Technology, 2018, 27, 1563-1578.	1.6	29
74	Deformation behaviour of the C15 Laves phase Cr2Nb. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 233, 44-49.	2.6	28
75	Incorporation of fluorine ions into hydroxyapatite by a pH cycling method. Journal of Materials Science: Materials in Medicine, 2005, 16, 447-453.	1.7	28
76	Constitutive modeling of high temperature flow behavior in a Ti-45Al-8Nb-2Cr-2Mn-0.2Y alloy. Scientific Reports, 2018, 8, 5453.	1.6	28
77	Effects of Precursor Chemistry on the Structural Characteristics of Y₂O₃â€“MgO Nanocomposites Synthesized by a Combined Solâ€“Gel/Thermal Decomposition Route. Journal of the American Ceramic Society, 2011, 94, 372-381.	1.9	27
78	Influence of electric current on microstructure evolution in Ti/Al and Ti/TiAl3 during spark plasma sintering. Journal of Alloys and Compounds, 2015, 648, 1097-1103.	2.8	27
79	Comparison of virgin Ti-6Al-4V powders for additive manufacturing. Additive Manufacturing, 2018, 21, 544-555.	1.7	27
80	The effect of finely dispersed particles on primary recrystallisation textures in AlMnSi alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 225, 9-21.	2.6	26
81	The stoichiometry of metal assisted etching (MAE) of Si in V2O5+HF and HOOH+HF solutions. Electrochimica Acta, 2015, 158, 219-228.	2.6	26
82	Mesoporous carbon aerogel supported PtCu bimetallic nanoparticles via supercritical deposition and their dealloying and electrocatalytic behaviour. Catalysis Today, 2018, 310, 166-175.	2.2	26
83	Geometry and interface structure of island nuclei for GaSb buffer layers grown on (001) GaAs by metalorganic vapour phase epitaxy. Journal of Crystal Growth, 1993, 133, 168-174.	0.7	25
84	Hydrodesulfurization of model diesel using Pt/Al2O3 catalysts prepared by supercritical deposition. Catalysis Today, 2005, 99, 365-373.	2.2	25
85	Aerogelâ€“copper nanocomposites prepared using the adsorption of a polyfluorinated complex from supercritical CO2. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	25
86	Structure and mechanical properties in a powder-processed icosahedral-phase-strengthened aluminum alloy. Scripta Materialia, 2016, 123, 51-54.	2.6	25
87	Regenerative Electroless Etching of Silicon. Angewandte Chemie - International Edition, 2017, 56, 624-627.	7.2	25
88	High-pressure torsion-induced phase transformations and grain refinement in Al/Ti composites. Journal of Materials Science, 2017, 52, 12170-12184.	1.7	25
89	The origins of growth spirals on laser-ablated YBa2Cu3O7-Î´ thin films. Philosophical Magazine Letters, 1994, 70, 47-53.	0.5	24
90	Development of quasicrystal morphology in gas-atomized icosahedral-phase-strengthened aluminum alloy powders. Materials and Design, 2019, 182, 108094.	3.3	24

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91	On epitaxial misorientations. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 63, 667-694.	0.8	23
92	Phase stability in a powder-processed Alâ€“Mnâ€“Ce alloy. Journal of Materials Science, 2014, 49, 3742-3754.	1.7	23
93	Electrostatically driven dielectric anomaly in mesoscopic ferroelectricâ€“paraelectric bilayers. Acta Materialia, 2016, 105, 68-74.	3.8	23
94	Concerning the dissociation of grown-in dislocations in melt spun ribbons of the intermetallic compound Nb₃Al. Philosophical Magazine Letters, 1991, 64, 59-65.	0.5	22
95	Focused ion beam sectioning studies of biomimetic hydroxyapatite coatings on Ti-6Al-4V substrates. Surface and Coatings Technology, 2017, 313, 255-262.	2.2	22
96	Eutectic microstructures in dilute Al-Ce and Al-Co alloys. Materials Characterization, 2019, 154, 269-276.	1.9	22
97	Observation of a metastable B2 phase in rapidly solidified ribbons of Nbî—¸Al alloys. Scripta Metallurgica Et Materialia, 1993, 29, 1271-1274.	1.0	21
98	The Influence of Oxide Layers on the Initiation of Carbon Deposition on Stainless Steel. Oxidation of Metals, 2001, 56, 231-250.	1.0	21
99	VULCAN-SUPPORTED Pt ELECTROCATALYSTS FOR PEMFCs PREPARED USING SUPERCRITICAL CARBON DIOXIDE DEPOSITION. Chemical Engineering Communications, 2008, 196, 194-203.	1.5	21
100	Phase Homogeneity in <scp><scp>Y</scp>₂<scp>O</scp>₃â€“<scp>MgO</scp></scp> Nanocomposites Synthesized by Thermal Decomposition of Nitrate Precursors with Ammonium Acetate Additions. Journal of the American Ceramic Society, 2011, 94, 4207-4217.	1.9	21
101	A study of the Pd/highly oriented pyrolytic graphite electrodeposition system by in situ electrochemical scanning tunnelling microscopy. Journal of Electroanalytical Chemistry, 1995, 395, 117-126.	1.9	20
102	Effects of Zn coating on the microstructure and magnetic properties of Ndâ€“Feâ€“B magnets. Journal of Alloys and Compounds, 2003, 351, 299-303.	2.8	20
103	STRONG DEGRADATION OF PHYSICAL PROPERTIES AND FORMATION OF A DEAD LAYER IN FERROELECTRIC FILMS DUE TO INTERFACIAL DISLOCATIONS. Integrated Ferroelectrics, 2005, 71, 67-80.	0.3	20
104	A Sucroseâ€Mediated Solâ€“Gel Technique for the Synthesis of <scp><scp>MgO</scp></scp>â€“<scp><scp>Y</scp></scp>₂<scp><scp>O</scp></scp>₃ Nanocomposites. Journal of the American Ceramic Society, 2013, 96, 346-350.	1.9	20
105	Microstructure and preparation of an ultra-fine-grained W-Al 2 O 3 composite via hydrothermal synthesis and spark plasma sintering. International Journal of Refractory Metals and Hard Materials, 2018, 72, 149-156.	1.7	20
106	Stability and work function of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiC</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub surfaces: Density functional theory calculations. Physical Review B, 2009, 80, .	1.1	19
107	Microstructural effects of the reduction step in reactive consolidation of manganese cobaltite coatings on Crofer 22 APU. Materials at High Temperatures, 2015, 32, 142-147.	0.5	19
108	Salt fog corrosion behavior in a powder-processed icosahedral-phase-strengthened aluminum alloy. Corrosion Science, 2017, 121, 133-138.	3.0	19

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109	Temperature calibration of TEM specimen heating holders by isothermal sublimation of silver nanocubes. Ultramicroscopy, 2019, 196, 142-153.	0.8	19
110	Highly Active Carbon Supported PtCu Electrocatalysts for PEMFCs by in situ Supercritical Deposition Coupled with Electrochemical Dealloying. Fuel Cells, 2020, 20, 285-299.	1.5	19
111	On the influence of stoichiometry and purity on the deformation mechanisms in the intermetallic compound TiAl. Scripta Metallurgica Et Materialia, 1990, 24, 1105-1108.	1.0	18
112	Band-Edge Photoluminescence Recovery from Zinc-Blende CdSe Nanocrystals Synthesized at Room Temperature. Advanced Functional Materials, 2006, 16, 345-350.	7.8	18
113	Electrochemical performance of fuel cell catalysts prepared by supercritical deposition: Effect of different precursor conversion routes. Journal of Supercritical Fluids, 2015, 97, 154-164.	1.6	18
114	The influence of substrate surface preparation on the microstructure of CdTe grown on (001) GaAs by metalorganic chemical vapour deposition. Journal of Crystal Growth, 1994, 135, 409-422.	0.7	17
115	Stacking-fault energy in the C15 Laves phase Cr2Nb. Philosophical Magazine Letters, 1996, 74, 129-136.	0.5	17
116	On the self-pinning character of synchro-Shockley dislocations in a Laves phase during strain rate cyclical compressions. Scripta Materialia, 2008, 59, 788-791.	2.6	17
117	Phase Homogeneity in MgOâ€“ZrO₂ Nanocomposites Synthesized by a Combined Solâ€“Gel/Thermal Decomposition Route. Journal of the American Ceramic Society, 2010, 93, 3102-3109.	1.9	17
118	Shock-induced deformation twinning and softening in magnesium single crystals. Materials and Design, 2020, 194, 108884.	3.3	17
119	Thermally activated structural transformations in manganese oxide nanoparticles under air and argon atmospheres. Journal of Materials Science, 2020, 55, 7247-7258.	1.7	17
120	A transmission electron microscope study of microstructural development in magnetron-sputtered MoSi2 thin films. Intermetallics, 2002, 10, 829-839.	1.8	16
121	Heteroepitaxial Growth of Nanoscale Oxide Shell/Fiber Superstructures by Mild Hydrothermal Processes. Small, 2010, 6, 988-992.	5.2	16
122	Transformation of La0.65Sr0.35MnO3 in electrochemical water oxidation. International Journal of Hydrogen Energy, 2017, 42, 8560-8568.	3.8	16
123	Crystallographically Determined Etching and Its Relevance to the Metal-Assisted Catalytic Etching (MACE) of Silicon Powders. Frontiers in Chemistry, 2019, 6, 651.	1.8	16
124	Studies of thermally activated processes in gas-atomized Al alloy powders: in situ STEM heating experiments on FIB-cut cross sections. Journal of Materials Science, 2019, 54, 9921-9932.	1.7	16
125	Multifunctional transition metal doped titanium dioxide reduced graphene oxide composites as highly efficient adsorbents and photocatalysts. Microporous and Mesoporous Materials, 2020, 307, 110521.	2.2	16
126	Dislocation Motion in Î» TiAl Studied by in situ Straining Experiments in the Hvem. Materials Research Society Symposia Proceedings, 1994, 364, 47.	0.1	15

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127	Formation and microstructural development of TiSi2 in (111)Si by Ti ion implantation and annealing at 950 Â°C. Journal of Materials Research, 1995, 10, 891-899.	1.2	15
128	Microstructures and deformation behaviour in Nb/10â€“25at.% Al/20â€“40at.%V alloys. Acta Materialia, 1997, 45, 4923-4938.	3.8	15
129	Microstructure and mechanical behaviour of Nbâ€“Alâ€“V alloys with 10â€“25 at.% Al and 20â€“40 at.% Vâ€”I: microstructural observations. Intermetallics, 2002, 10, 1-12.	1.8	15
130	The effect of Mn1.5Co1.5O4 coatings on the development of near surface microstructure for Haynes 230 oxidized at 800Â°C in air. Surface and Coatings Technology, 2014, 242, 109-117.	2.2	15
131	A Comparative Study of the Nanocrystalline Material Produced by Sliding Wear and Inert Gas Condensation. Materials Research Society Symposia Proceedings, 1990, 206, 593.	0.1	14
132	The Stability of B2 Compounds in Ti-Modified Nb-Al Alloys. Materials Research Society Symposia Proceedings, 1992, 288, 243.	0.1	14
133	Effect of heat-treatment on the microstructure and hardness of a devitrified Alâ€“3.0Yâ€“3.0Gdâ€“5.0Niâ€“1.0Feâ€“1.0Co alloy. Scripta Materialia, 2004, 51, 485-489.	2.6	14
134	Magnetic and tunable dielectric properties of DyCrO3 thin films. Journal of Materials Science, 2019, 54, 8984-8994.	1.7	14
135	Low-Load Metal-Assisted Catalytic Etching Produces Scalable Porosity in Si Powders. ACS Applied Materials & Interfaces, 2020, 12, 48969-48981.	4.0	14
136	Microstructure/mechanical behavior relationships in upset-forged powder-processed Al alloys containing icosahedral quasicrystalline dispersoids. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139487.	2.6	14
137	Surface states of gas-atomized Al 6061 powders â€“ Effects of heat treatment. Applied Surface Science, 2020, 534, 147643.	3.1	14
138	Effect of laser scan length on the microstructure of additively manufactured 17-4PH stainless steel thin-walled parts. Additive Manufacturing, 2020, 35, 101302.	1.7	14
139	The effect of substrate-off-cut on the properties of epitaxial thin films of YBa2Cu3O7âˆ’Î´ grown by pulsed laser deposition. Applied Surface Science, 1998, 127-129, 525-530.	3.1	13
140	Nanoscale carbide precipitation in the recast layer of a percussion laser-drilled superalloy. Scripta Materialia, 2009, 61, 943-946.	2.6	13
141	Base metal alloys with self-healing native conductive oxides for electrical contact materials. Applied Physics Letters, 2010, 97, .	1.5	13
142	Hexagonal crystallography and interphase boundary dislocations. Scripta Metallurgica, 1987, 21, 971-974.	1.2	12
143	In situ electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions. Corrosion Engineering Science and Technology, 1996, 31, 139-146.	0.3	12
144	Microstructure and mechanical behaviour of Nbâ€“Alâ€“V alloys with 10â€“25 at.% Al and 20â€“40 at.% Vâ€”II: mechanical behaviour and deformation mechanisms. Intermetallics, 2002, 10, 13-21.	1.8	12

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145	Polymorphism in the Laves-phase precipitates of a quinternary Nbâ€“Moâ€“Crâ€“Alâ€“Si alloy. Scripta Materialia, 2009, 60, 72-75.	2.6	12
146	A Comparison of Ga FIB and Xe-Plasma FIB of Complex Al Alloys. Microscopy and Microanalysis, 2017, 23, 288-289.	0.2	12
147	Interfacial Structure in Heteroepitaxial Silicon on Sapphire. Journal of the American Ceramic Society, 1990, 73, 1136-1143.	1.9	11
148	Development of anisotropic microtwin distributions in GaAs grown on 4Â°â€off (001) Si by molecular beam epitaxy. Applied Physics Letters, 1994, 65, 1903-1905.	1.5	11
149	Annealing twins in dilute Al[sbnd]Mn[sbnd]Si alloys. Philosophical Magazine Letters, 1995, 72, 193-198.	0.5	11
150	The interaction between extended dislocations and antiphase domain boundariesÂâ€" I: superpartial separation and the yield stress. Intermetallics, 2001, 9, 499-506.	1.8	11
151	Microstructural characteristics of the eutectoid mixture Zr2Cu and Zr7Cu10. Journal of Materials Science Letters, 2001, 20, 543-545.	0.5	11
152	Morphology and interfacial structure of gamma precipitates in the beta phase of a Ti-Al-Nb-Zr alloy. Journal of Materials Science, 2006, 41, 611-619.	1.7	11
153	Microstructural stability and phase transformations in electrodeposited cobalt-phosphorus coatings. Journal of Alloys and Compounds, 2017, 719, 142-150.	2.8	11
154	Mechanical properties of supersonic-impacted Al6061 powder particles. Scripta Materialia, 2019, 171, 52-56.	2.6	11
155	Controlling the Nature of Etched Si Nanostructures: High- versus Low-Load Metal-Assisted Catalytic Etching (MACE) of Si Powders. ACS Applied Materials & Interfaces, 2020, 12, 4787-4796.	4.0	11
156	Precipitation phenomena in a powder-processed quasicrystal-reinforced Al-Cr-Mn-Co-Zr alloy. Materials Characterization, 2021, 178, 111239.	1.9	11
157	The Effect of Rapid Thermal Annealing on the Dislocation Structure of Silicon on Sapphire. Materials Research Society Symposia Proceedings, 1988, 138, 373.	0.1	10
158	High-resolution electron microscopy of steps on misfitting lamellar Î³-Î±2interfaces in a Ti-44at.% Al-8at.% Nb alloy. Philosophical Magazine Letters, 2000, 80, 1-10.	0.5	10
159	Zn diffusion induced precipitation along grain boundaries in Zn-coated NdFeB magnets. Journal of Magnetism and Magnetic Materials, 2003, 261, 13-20.	1.0	10
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