

B Shalchi-Amirkhiz

List of Publications by Year in descending order

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143
papers

5,673
citations

81839

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151
docs citations

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times ranked

6359
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbonized Chicken Eggshell Membranes with 3D Architectures as High-Performance Electrode Materials for Supercapacitors. <i>Advanced Energy Materials</i> , 2012, 2, 431-437.	10.2	573
2	Graphene-nickel cobaltite nanocomposite asymmetrical supercapacitor with commercial level mass loading. <i>Nano Research</i> , 2012, 5, 605-617.	5.8	356
3	New Opportunity for <i>in Situ</i> Exsolution of Metallic Nanoparticles on Perovskite Parent. <i>Nano Letters</i> , 2016, 16, 5303-5309.	4.5	222
4	Electrochemical Supercapacitor Electrodes from Sponge-like Graphene Nanoarchitectures with Ultrahigh Power Density. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2928-2933.	2.1	173
5	A-site deficient perovskite: the parent for in situ exsolution of highly active, regenerable nano-particles as SOFC anodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11048-11056.	5.2	164
6	Supercapacitors based on carbons with tuned porosity derived from paper pulp mill sludge biowaste. <i>Carbon</i> , 2013, 57, 317-328.	5.4	155
7	The influence of the ratio of $\frac{\text{rotational speed}}{\text{traverse speed}}$ ($\frac{v}{v}$) on mechanical properties of AZ31 friction stir welds. <i>International Journal of Machine Tools and Manufacture</i> , 2006, 46, 1983-1987.	6.2	138
8	Contribution of Mg ₂ Si precipitates to the strength of direct metal laser sintered AlSi10Mg. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 739, 295-300.	2.6	128
9	A comparative study of oxide scales grown on stainless steel and nickel-based superalloys in ultra-high temperature supercritical water at 800 °C. <i>Corrosion Science</i> , 2016, 106, 188-207.	3.0	121
10	Structure and properties of cast Al-Si based alloy with Zr-V-Ti additions and its evaluation of high temperature performance. <i>Journal of Alloys and Compounds</i> , 2014, 595, 67-79.	2.8	115
11	Supercapacitive carbon nanotube-cobalt molybdate nanocomposites prepared via solvent-free microwave synthesis. <i>RSC Advances</i> , 2012, 2, 2753.	1.7	113
12	Strengthening mechanisms in direct metal laser sintered AlSi10Mg: Comparison between virgin and recycled powders. <i>Additive Manufacturing</i> , 2018, 23, 108-120.	1.7	110
13	Activating p-Blocking Centers in Perovskite for Efficient Water Splitting. <i>CheM</i> , 2018, 4, 2902-2916.	5.8	99
14	Evaluation of microstructure and mechanical properties in friction stir welded A356+15%SiCp cast composite. <i>Materials Letters</i> , 2006, 60, 565-568.	1.3	95
15	Stabilizing Double Perovskite for Effective Bifunctional Oxygen Electrocatalysis in Alkaline Conditions. <i>Chemistry of Materials</i> , 2017, 29, 6228-6237.	3.2	94
16	Microstructure-property characterization of a friction-stir welded joint between AA5059 aluminum alloy and high density polyethylene. <i>Materials Characterization</i> , 2014, 98, 73-82.	1.9	90
17	Columnar to equiaxed transition during direct metal laser sintering of AlSi10Mg alloy: Effect of building direction. <i>Additive Manufacturing</i> , 2018, 23, 121-131.	1.7	90
18	Post heat treatment of additive manufactured AlSi10Mg: On silicon morphology, texture and small-scale properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 783, 139296.	2.6	80

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19	Microstructure and corrosion behavior of a novel additively manufactured maraging stainless steel. <i>Electrochimica Acta</i> , 2020, 339, 135925.	2.6	79
20	Additive manufacturing of an Fe-Cr-Ni-Al maraging stainless steel: Microstructure evolution, heat treatment, and strengthening mechanisms. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 787, 139470.	2.6	66
21	Dynamic loading of direct metal laser sintered AlSi10Mg alloy: Strengthening behavior in different building directions. <i>Materials and Design</i> , 2018, 159, 201-211.	3.3	64
22	Hydrogen Sorption Cycling Kinetic Stability and Microstructure of Single-Walled Carbon Nanotube (SWCNT) Magnesium Hydride (MgH ₂) Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3265-3275.	1.5	63
23	Bonding mechanism and interface characterisation during dissimilar friction stir welding of an aluminium/polymer bi-material joint. <i>Science and Technology of Welding and Joining</i> , 2017, 22, 182-190.	1.5	63
24	Quantitative metallography of precipitating and secondary phases after strengthening treatment of net shaped casting of Al-Zn-Mg-Cu (7000) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 698, 206-217.	2.6	62
25	The influence of SWCNT-metallic nanoparticle mixtures on the desorption properties of milled MgH ₂ powders. <i>Nanotechnology</i> , 2009, 20, 204016.	1.3	60
26	Additive manufacturing of maraging steel-H13 bimetal using laser powder bed fusion technique. <i>Additive Manufacturing</i> , 2019, 29, 100797.	1.7	58
27	Microstructures and properties of Mg alloy/DP600 steel dissimilar refill friction stir spot welds. <i>Science and Technology of Welding and Joining</i> , 2015, 20, 494-501.	1.5	56
28	Nano-scale bi-layer Pd/Ta, Pd/Nb, Pd/Ti and Pd/Fe catalysts for hydrogen sorption in magnesium thin films. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7741-7748.	3.8	54
29	Hydrogen storage cycling of MgH ₂ thin film nanocomposites catalyzed by bimetallic Cr Ti. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	54
30	Stable Hydrogen Storage Cycling in Magnesium Hydride, in the Range of Room Temperature to 300 Å°C, Achieved Using a New Bimetallic Cr-V Nanoscale Catalyst. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3188-3199.	1.5	54
31	Interfacial bonding mechanism in Al/coated steel dissimilar refill friction stir spot welds. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1027-1038.	5.6	54
32	A trade-off between powder layer thickness and mechanical properties in additively manufactured maraging steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 776, 139041.	2.6	53
33	Magnesium and magnesium-silicide coated silicon nanowire composite anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1600-1612.	5.2	52
34	Role of hierarchical microstructure of additively manufactured AlSi10Mg on dynamic loading behavior. <i>Additive Manufacturing</i> , 2019, 28, 1-13.	1.7	52
35	Synergy of elemental Fe and Ti promoting low temperature hydrogen sorption cycling of magnesium. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6711-6722.	3.8	51
36	Rapid and reversible hydrogen sorption in Mg-Fe-Ti thin films. <i>Applied Physics Letters</i> , 2009, 95, 103114.	1.5	49

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37	On the Al-Ce Eutectic Transformation in Aluminum-Cerium Binary Alloys. <i>Materials</i> , 2020, 13, 4549.	1.3	45
38	Selective laser melted stainless steel CX: Role of built orientation on microstructure and micro-mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 786, 139365.	2.6	45
39	Deformation mechanism during dynamic loading of an additively manufactured AlSi10Mg_200C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 722, 263-268.	2.6	44
40	A comparative study on the oxidation of austenitic alloys 304 and 304-oxide dispersion strengthened steel in supercritical water at 650 °C. <i>Journal of Supercritical Fluids</i> , 2017, 119, 245-260.	1.6	43
41	An ingenious Ni/Ce co-doped titanate based perovskite as a coking-tolerant anode material for direct hydrocarbon solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22830-22838.	5.2	42
42	Structure-properties relationship of ultra-fine grained V-microalloyed dual phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 703, 293-303.	2.6	42
43	Microstructural evolution and mechanical behavior of nickel aluminum bronze Cu-9Al-4Fe-4Ni-1Mn fabricated through wire-arc additive manufacturing. <i>Additive Manufacturing</i> , 2019, 30, 100872.	1.7	42
44	Corrosion resistance of 13wt.% Cr martensitic stainless steels: Additively manufactured CX versus wrought Ni-containing AISI 420. <i>Corrosion Science</i> , 2021, 184, 109362.	3.0	41
45	Additive manufactured versus cast AlSi10Mg alloy: Microstructure and micromechanics. <i>Results in Materials</i> , 2021, 10, 100178.	0.9	40
46	Microstructural evolution during hydrogen sorption cycling of Mg-FeTi nanolayered composites. <i>Acta Materialia</i> , 2011, 59, 2083-2095.	3.8	37
47	Bimodal grain microstructure development during hot compression of a cast-homogenized Mg-Zn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 724, 421-430.	2.6	37
48	New insights into martensite strength and the damage behaviour of dual phase steels. <i>Acta Materialia</i> , 2018, 159, 112-122.	3.8	36
49	Internal oxidation and crack susceptibility of alloy 310S stainless steel after long term exposure to supercritical water at 500 °C. <i>Journal of Supercritical Fluids</i> , 2017, 120, 161-172.	1.6	34
50	Plastic deformation throughout strain-induced phase transformation in additively manufactured maraging steels. <i>Materials and Design</i> , 2021, 198, 109289.	3.3	32
51	Discovery and Understanding of the Ambient-Condition Degradation of Doped Barium Cerate Proton-Conducting Perovskite Oxide in Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1408-F1414.	1.3	31
52	Characterization of oxide scales grown on alloy 310S stainless steel after long term exposure to supercritical water at 500 °C. <i>Materials Characterization</i> , 2016, 120, 273-284.	1.9	31
53	The role of titanium on the microstructure and mechanical properties of additively manufactured C300 maraging steels. <i>Materials and Design</i> , 2020, 194, 108965.	3.3	31
54	Role of interfacial reaction on the mechanical performance of Al/steel dissimilar refill friction stir spot welds. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 462-477.	1.5	30

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55	Deformation mechanisms and fracture of electron beam melted Ti-6Al-4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138652.	2.6	27
56	Developing a Thermal- and Coking-Resistant Cobalt-Tungsten Bimetallic Anode Catalyst for Solid Oxide Fuel Cells. <i>ACS Catalysis</i> , 2016, 6, 4630-4634.	5.5	26
57	Microstructural investigation and mechanical behavior of a two-material component fabricated through selective laser melting of AlSi10Mg on an Al-Cu-Ni-Fe-Mg cast alloy substrate. <i>Additive Manufacturing</i> , 2020, 31, 100937.	1.7	26
58	Atom probe tomography study of β -phases in additively manufactured nickel aluminum bronze in as-built and heat-treated conditions. <i>Materials and Design</i> , 2021, 202, 109541.	3.3	26
59	Microstructural-micromechanical correlation in an Al-Cu-Mg-Ag-TiB ₂ (A205) alloy: additively manufactured and cast. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142453.	2.6	26
60	Hardness control of Al-Si HPDC casting alloy via microstructure refinement and tempering parameters. <i>Materials and Design</i> , 2016, 103, 365-376.	3.3	25
61	The role of the Zn/Nd ratio in the microstructural evolution of the Mg-Zn-Nd system during static recrystallization: Grain boundary partitioning of solutes. <i>Scripta Materialia</i> , 2017, 134, 1-5.	2.6	25
62	On the solidification characteristics, deformation, and functionally graded interfaces in additively manufactured hybrid aluminum alloys. <i>International Journal of Plasticity</i> , 2020, 133, 102840.	4.1	25
63	Bimetallic Fe-V catalyzed magnesium films exhibiting rapid and cycleable hydrogenation at 200°C. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	24
64	Effect of Vanadium Addition on the Strength of API X100 Linepipe Steel. <i>ISIJ International</i> , 2016, 56, 154-160.	0.6	23
65	Microstructural evolution of a forged 2XXX series aluminum powder metallurgy alloy. <i>Materials Characterization</i> , 2019, 151, 342-350.	1.9	23
66	Effect of coating type on microstructure and mechanical behavior of resistance spot welds of thin X626 aluminum sheet to low carbon steel. <i>Journal of Materials Processing Technology</i> , 2019, 264, 438-447.	3.1	23
67	Effects of Si, Mn on the corrosion behavior of ferritic-martensitic steels in supercritical water (SCW) environments. <i>Corrosion Science</i> , 2020, 166, 108432.	3.0	23
68	Microstructural Evolution During Deformation of a QP980 Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 4524-4539.	1.1	22
69	Texture evolution in selective laser melted maraging stainless steel CX with martensitic transformation. <i>Journal of Materials Science</i> , 2021, 56, 844-853.	1.7	22
70	Kinetics and microstructural change of low-carbon bainite due to vanadium microalloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 720, 248-256.	2.6	21
71	Thermally stable and coking resistant CoMo alloy-based catalysts as fuel electrodes for solid oxide electrochemical cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15377-15385.	5.2	21
72	Interface engineering of additively manufactured maraging steel-H13 bimetallic structures. <i>Materials Characterization</i> , 2020, 170, 110728.	1.9	21

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73	Promoting the ambient-condition stability of Zr-doped barium cerate: Toward robust solid oxide fuel cells and hydrogen separation in syngas. <i>Journal of Power Sources</i> , 2018, 378, 134-138.	4.0	19
74	Deformation banding in a precipitation hardened aluminum alloy during simple shear deformation. <i>Scripta Materialia</i> , 2019, 162, 300-305.	2.6	19
75	Microstructural evolution during low temperature sorption cycling of Mg-ALTi multilayer nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4215-4226.	3.8	18
76	Friction stir lap welding of aluminum alloy to advanced high strength steel using a cold-spray deposition as an interlayer. <i>Materials Letters</i> , 2019, 239, 212-215.	1.3	18
77	Role of Fe ₂ Al ₅ in fracture of novel dissimilar aluminum-steel resistance spot welds using multi-ring domed electrodes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142233.	2.6	18
78	Joining Metals by Combining Mechanical Stirring and Thermomechanical Treatment to Form a Globular Weld Structure. <i>Solid State Phenomena</i> , 2006, 116-117, 397-401.	0.3	17
79	Formation of nanometer scale intermetallic phase at interface of aluminum-to-steel spot joint by welding-brazing process. <i>Materials Letters</i> , 2014, 137, 120-123.	1.3	17
80	Characterization of oxide layer and micro-crack initiation in alloy 316L stainless steel after 20,000 h exposure to supercritical water at 500 Å°C. <i>Materials Characterization</i> , 2017, 131, 532-543.	1.9	16
81	Micromechanical characterization of wire-arc additive manufactured and cast nickel aluminum bronze: Ambient and intermediate temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139773.	2.6	16
82	Laser powder bed fused Inconel 718 in stress-relieved and solution heat-treated conditions. <i>Materials Characterization</i> , 2021, 181, 111499.	1.9	16
83	Sagging resistance of warm formed aluminum brazing sheet. <i>Journal of Materials Processing Technology</i> , 2018, 254, 353-360.	3.1	15
84	Wire-arc additive manufactured nickel aluminum bronze with enhanced mechanical properties using heat treatments cycles. <i>Additive Manufacturing</i> , 2020, 36, 101510.	1.7	15
85	Generating C ₄ Alkenes in Solid Oxide Fuel Cells via Cofeeding H ₂ and <i>n</i> -Butane Using a Selective Anode Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16209-16215.	4.0	15
86	On the microstructure and solidification behavior of new generation additively manufactured Al-Cu-Mg-Ag-Ti-B alloys. <i>Additive Manufacturing</i> , 2021, 37, 101724.	1.7	15
87	Microstructure and Shear Strength of Novel Aluminum to Steel Resistance Spot Welds. <i>Welding Journal</i> , 2020, 99, 67s-74s.	0.9	15
88	The surface evolution of La _{0.4} Sr _{0.6} TiO ₃ +Î anode in solid oxide fuel cells: Understanding the sulfur-promotion effect. <i>Journal of Power Sources</i> , 2017, 343, 127-134.	4.0	14
89	Microstructure evolution of warm deformed multilayered Al alloy sheet during brazing. <i>Journal of Materials Processing Technology</i> , 2020, 281, 116639.	3.1	14
90	The effect of chemical patterning induced by cyclic plasticity on the formation of precipitates during aging of an Al-Mg-Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 815, 141265.	2.6	14

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91	Indentation-derived mechanical properties of Ti-6Al-4V: Laser-powder bed fusion versus electron beam melting. <i>Materials Letters</i> , 2021, 301, 130273.	1.3	14
92	Initiation of Stress Corrosion Cracks in X80 and X100 Pipe Steels in Near-Neutral pH Environment. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 227-240.	1.2	13
93	Influence of build orientation on small-scale properties of electron beam melted Ti-6Al-4V. <i>Materials Letters</i> , 2020, 266, 126970.	1.3	13
94	On the Joint Formation and Interfacial Microstructure of Cold Metal Transfer Cycle Step Braze Welding of Aluminum to Steel Butt Joint. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5198-5212.	1.1	13
95	The Influence of Vanadium Additions on Isothermally Formed Bainite Microstructures in Medium Carbon Steels Containing Retained Austenite. <i>Metals</i> , 2020, 10, 392.	1.0	13
96	Thermodynamically destabilized hydride formation in Mg-AlTi multilayers for hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16432.	1.3	12
97	Concurrent improvement of strength and ductility in heat-treated C300 maraging steels produced by laser powder bed fusion technique. <i>Additive Manufacturing</i> , 2021, 39, 101847.	1.7	12
98	Mechanical Properties of Fuel Cladding Candidate Alloys for Canadian SCWR Concept. <i>Jom</i> , 2016, 68, 469-474.	0.9	11
99	Improvement of Superplasticity in High-Mg Aluminum Alloys by Sacrifice of Some Room Temperature Formability. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 1962-1979.	1.1	11
100	Influence of sheet thickness ratio on fracture mechanisms of Al-steel resistance spot welds produced using multi-ring domed electrode. <i>Science and Technology of Welding and Joining</i> , 2020, 25, 164-168.	1.5	11
101	Corrosion Behaviour of Electron Beam Melted Ti6Al4V: Effects of Microstructural Variation. <i>Journal of the Electrochemical Society</i> , 2020, 167, 131505.	1.3	11
102	Carbonized Chicken Eggshell Membranes with 3D Architectures as High-Performance Electrode Materials for Supercapacitors (<i>Adv. Energy Mater.</i> 4/2012). <i>Advanced Energy Materials</i> , 2012, 2, 430-430.	10.2	10
103	Effect of Revolutionary Pitch on Interface Microstructure and Mechanical Behavior of Friction Stir Lap Welds of AA6082-T6 to Galvanized DP800. <i>Metals</i> , 2018, 8, 925.	1.0	9
104	Liquid-Solid Interaction in Al-Si/Al-Mn-Cu-Mg Brazing Sheets and Its Effects on Mechanical Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 3091-3107.	1.1	9
105	Microstructural consistency in the additive manufactured metallic materials: A study on the laser powder bed fusion of AlSi10Mg. <i>Additive Manufacturing</i> , 2021, 46, 102166.	1.7	9
106	TEM Study of Supercritical Water Corrosion in 310S and 800H Alloys. <i>Microscopy and Microanalysis</i> , 2014, 20, 1866-1867.	0.2	8
107	TEM Examination of Precipitation Behaviour of M23C6 and Sigma Phases and Dislocations in SS 310S under Creep Deformation at 800°C. <i>Microscopy and Microanalysis</i> , 2015, 21, 585-586.	0.2	8
108	Continuous nanoscale Al ₂ Fe transition layer strengthened magnesium-steel spot joints. <i>Materials Letters</i> , 2017, 196, 242-244.	1.3	8

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109	Microstructural assessment of 310S stainless steel during creep at 800Å°C. <i>Materialia</i> , 2019, 6, 100330.	1.3	8
110	A hybrid additively manufactured martensitic-maraging stainless steel with superior strength and corrosion resistance for plastic injection molding dies. <i>Additive Manufacturing</i> , 2021, 45, 102068.	1.7	8
111	Interaction between nano-precipitates and dislocations during high temperature deformation of Al-Si alloys. <i>Journal of Alloys and Compounds</i> , 2017, 712, 219-224.	2.8	6
112	Dynamic compressive response of electron beam melted Ti-6Al-4V under elevated strain rates: Microstructure and constitutive models. <i>Additive Manufacturing</i> , 2020, 35, 101347.	1.7	6
113	A relationship between the build and texture orientation in tensile loading of the additively manufactured maraging steels. <i>Additive Manufacturing</i> , 2021, 41, 101954.	1.7	6
114	Corrosion performance of additively manufactured bimetallic aluminum alloys. <i>Electrochimica Acta</i> , 2021, 389, 138689.	2.6	6
115	High-Resolution Electron Microscopy and Kinetic Studies of Precipitation Hardening Reactions in Cast Al-5.8Zn-2.2Mg-2.5Cu. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 4630-4646.	1.2	5
116	Indentation strain rate sensitivity of laser-powder bed fused and electron beam melted Ti-6Al-4V. <i>Vacuum</i> , 2022, 195, 110690.	1.6	5
117	Characterisation of phase segregation during back extrusion of ZA27 semisolid alloy. <i>Materials Science and Technology</i> , 2007, 23, 113-118.	0.8	4
118	Effect of water density on the oxidation behavior of alloy A-286 at 625Å°C - A TEM study. <i>Journal of Nuclear Materials</i> , 2015, 467, 758-769.	1.3	4
119	Effects of Heat-Affected Zone Microstructure on Fracture Toughness of Two X70 Pipe Girth Welds. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 3248-3260.	1.1	4
120	The Influence of Specimen Geometry and Strain Rate on the Portevin-Le Chatelier Effect and Fracture in an Austenitic FeMnC TWIP Steel. <i>Metals</i> , 2020, 10, 1201.	1.0	4
121	A new route for developing ultrafine-grained Al alloy strips using repetitive bending under tension. <i>Materials and Design</i> , 2021, 206, 109750.	3.3	4
122	Microstructural Evolution in Additively Manufactured Fe-Cr-Ni Maraging Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 1771-1792.	1.1	4
123	Microstructure and Toughness of Simulated Grain Coarsened Heat Affected Zones in X80 Pipe Steels. , 2014, , .		3
124	Forming mechanism of delamination cracks observed during tensile and fracture toughness testing of X70 pipeline steel. <i>International Journal of Fracture</i> , 2018, 209, 223-229.	1.1	3
125	TEM Study of Additively Manufactured Metallic Alloys: Nickel Aluminum Bronze. <i>Microscopy and Microanalysis</i> , 2019, 25, 2588-2589.	0.2	3
126	On the bending of MS1-P20 hybrid steels additively manufactured using laser powder bed fusion. <i>Materialia</i> , 2022, 24, 101501.	1.3	3

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127	Thermal Mechanical Working of Spark Plasma Sintered Preforms Fabricated from Aluminum 2219 Powder. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4647-4661.	1.1	2
128	Phase Segregation Susceptibility of ZA27 Alloy at Different Shear Rates. Solid State Phenomena, 2006, 116-117, 225-230.	0.3	1
129	NbC Precipitation and Deformation of SS 347H Crept at 850°C. Microscopy and Microanalysis, 2014, 20, 1494-1495.	0.2	1
130	TEM Characterization of HSLA Steels and Welds. Microscopy and Microanalysis, 2016, 22, 1734-1735.	0.2	1
131	Synthesis of In Situ SiC/Graphite/Al Hybrid Composite Coating by Laser Direct Energy Deposition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 484-502.	1.1	1
132	Characterization and statistical modeling of texture and microstructure evolution in dynamically fractured electron beam melted Ti-6Al-4V. Materialia, 2022, 21, 101342.	1.3	1
133	Microstructure Modelling of the HEC Behaviour of a Novel Vanadium DP980 Cold Rolled Alloy. Minerals, Metals and Materials Series, 2022, , 909-920.	0.3	1
134	Effect of Vanadium Addition on Api X100 Linepipe Steel. , 2015, , 715-720.		0
135	Effect of Weld Thermal Cycles on Microstructure and Properties of Simulated Heat Affected Zone in Thick-Wall X80 Pipe Steels. , 2016, , .		0
136	The Role of the Nd/Zn Ratio on the Stability of Mg-Zn-Nd Clusters and the Evolution of Texture in Two Mg-Zn-Nd Alloys during Annealing. Materials Science Forum, 2016, 879, 542-547.	0.3	0
137	Structure-properties relationship of ultra-fine grained V-microalloyed dual phase steels. Microscopy and Microanalysis, 2018, 24, 2232-2233.	0.2	0
138	Using EELS-Carbon Measurement to Predict Hardness of V-added DP Steels. Microscopy and Microanalysis, 2019, 25, 2348-2349.	0.2	0
139	Evolution of a Gradient Microstructure in Direct Metal Laser Sintered AlSi10Mg. Minerals, Metals and Materials Series, 2019, , 331-338.	0.3	0
140	Joining Metals by Combining Mechanical Stirring and Thermomechanical Treatment to Form a Globular Weld Structure. Solid State Phenomena, 0, , 397-401.	0.3	0
141	On the Microstructure and Solidification Behavior of a Novel Additively Manufactured Al-Cu-Mg-Ag-Ti-B Alloy. SSRN Electronic Journal, 0, , .	0.4	0
142	Characterization and Statistical Modeling of Texture and Microstructure Evolution in Dynamically Fractured Electron Beam Melted Ti-6Al-4V. SSRN Electronic Journal, 0, , .	0.4	0
143	High Strain Rate Deformation Behavior, Texture and Microstructural Evolution, Characterization of Adiabatic Shear Bands, and Constitutive Models in Electron Beam Melted Ti-6Al-4V Under Dynamic Compression Loadings. SSRN Electronic Journal, 0, , .	0.4	0