

# John J Lewandowski

## List of Publications by Year in descending order

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250  
papers

14,024  
citations

26567

56  
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23472

111  
g-index

256  
all docs

256  
docs citations

256  
times ranked

6714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Additive Manufacturing: A Review of Mechanical Properties. Annual Review of Materials Research, 2016, 46, 151-186.	4.3	1,174
2	Intrinsic plasticity or brittleness of metallic glasses. Philosophical Magazine Letters, 2005, 85, 77-87.	0.5	1,061
3	Temperature rise at shear bands in metallic glasses. Nature Materials, 2006, 5, 15-18.	13.3	810
4	Fracture of Brittle Metallic Glasses: Brittleness or Plasticity. Physical Review Letters, 2005, 94, 125510.	2.9	492
5	Overview of Materials Qualification Needs for Metal Additive Manufacturing. Jom, 2016, 68, 747-764.	0.9	427
6	High-entropy Al <sub>0.3</sub> CoCrFeNi alloy fibers with high tensile strength and ductility at ambient and cryogenic temperatures. Acta Materialia, 2017, 123, 285-294.	3.8	378
7	Effects of matrix microstructure and particle distribution on fracture of an aluminum metal matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 107, 241-255.	2.6	357
8	Mechanical Properties of Bulk Metallic Glasses. MRS Bulletin, 2007, 32, 635-638.	1.7	328
9	Mechanical behaviour of laminated metal composites. International Materials Reviews, 1996, 41, 169-197.	9.4	294
10	Strength and ductile-phase toughening in the two-phase Nb/Nb <sub>5</sub> Si <sub>3</sub> alloys. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1991, 22, 1573-1583.	1.4	289
11	Progress Towards Metal Additive Manufacturing Standardization to Support Qualification and Certification. Jom, 2017, 69, 439-455.	0.9	279
12	Ultrahigh-Temperature Nb-Silicide-Based Composites. MRS Bulletin, 2003, 28, 646-653.	1.7	277
13	Crack initiation and growth toughness of an aluminum metal-matrix composite. Acta Metallurgica Et Materialia, 1990, 38, 489-496.	1.9	230
14	Fracture toughness and notched toughness of bulk amorphous alloy: Zr-Ti-Ni-Cu-Be. Scripta Materialia, 1998, 38, 1811-1817.	2.6	221
15	Defect distribution and microstructure heterogeneity effects on fracture resistance and fatigue behavior of EBM Ti-6Al-4V. International Journal of Fatigue, 2017, 94, 263-287.	2.8	191
16	Understanding the Glass-forming Ability of Cu <sub>50</sub> Zr <sub>50</sub> Alloys in Terms of a Metastable Eutectic. Journal of Materials Research, 2005, 20, 2307-2313.	1.2	187
17	Effects of hydrostatic pressure on the flow and fracture of a bulk amorphous metal. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 3427-3441.	0.8	165
18	Carbon Additions to Molybdenum Disilicide: Improved High-Temperature Mechanical Properties. Journal of the American Ceramic Society, 1991, 74, 2704-2706.	1.9	162

#	ARTICLE	IF	CITATIONS
19	Effects of heat treatment and reinforcement size. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 2531-2543.	1.4	147
20	Effects of superimposed hydrostatic pressure on flow and fracture of a Zr-Ti-Ni-Cu-Be bulk amorphous alloy. Scripta Materialia, 1999, 41, 19-24.	2.6	146
21	Intrinsic and extrinsic toughening of metallic glasses. Scripta Materialia, 2006, 54, 337-341.	2.6	141
22	Effects of hydrostatic pressure on mechanical behaviour and deformation processing of materials. International Materials Reviews, 1998, 43, 145-187.	9.4	129
23	Fracture Toughness and Fatigue Crack Growth Behavior of As-Cast High-Entropy Alloys. Jom, 2015, 67, 2288-2295.	0.9	129
24	Microstructural effects on the cleavage fracture stress of fully pearlitic eutectoid steel. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1986, 17, 1769-1786.	1.4	113
25	Tough Fe-based bulk metallic glasses. Applied Physics Letters, 2008, 92, .	1.5	113
26	Toughness, extrinsic effects and Poisson's ratio of bulk metallic glasses. Acta Materialia, 2012, 60, 4800-4809.	3.8	110
27	Effects of Annealing and Changes in Stress State on Fracture Toughness of Bulk Metallic Glass. Materials Transactions, 2001, 42, 633-637.	0.4	104
28	Compressive plasticity and toughness of a Ti-based bulk metallic glass. Acta Materialia, 2010, 58, 1708-1720.	3.8	104
29	Effects of HIP on microstructural heterogeneity, defect distribution and mechanical properties of additively manufactured EBM Ti-48Al-2Cr-2Nb. Journal of Alloys and Compounds, 2017, 729, 1118-1135.	2.8	102
30	Effects of SiCp size and volume fraction on the high cycle fatigue behavior of AZ91D magnesium alloy composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 220, 85-92.	2.6	97
31	Dynamic deformation behavior of Al <sub>70</sub> -Zn <sub>10</sub> -Mg <sub>10</sub> -Cu alloy matrix composites reinforced with 20 Vol.% SiC. Acta Metallurgica Et Materialia, 1993, 41, 2337-2351.	1.9	93
32	Deformation and fracture behavior of Nb in Nb <sub>5</sub> Si <sub>3</sub> /Nb laminates and its effect on laminate toughness. Acta Metallurgica Et Materialia, 1995, 43, 1955-1967.	1.9	90
33	Evaluation of Orientation Dependence of Fracture Toughness and Fatigue Crack Propagation Behavior of As-Deposited ARCAM EBM Ti-6Al-4V. Jom, 2015, 67, 597-607.	0.9	88
34	Deformation and fracture toughness of a bulk amorphous Zr <sub>40</sub> Ti <sub>40</sub> Ni <sub>10</sub> Cu <sub>10</sub> Be alloy. Intermetallics, 2000, 8, 487-492.	1.8	87
35	Local temperature rises during mechanical testing of metallic glasses. Journal of Materials Research, 2007, 22, 419-427.	1.2	87
36	Effect of reinforcement size and matrix microstructure on the fracture properties of an aluminum metal matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 150, 179-186.	2.6	83

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37	Effects of the prior austenite grain size on the ductility of fully pearlitic eutectoid steel. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1986, 17, 461-472.	1.4	81
38	The mechanism of mechanical alloying of MoSi <sub>2</sub> . Journal of Materials Research, 1993, 8, 1311-1316.	1.2	80
39	Segregation to SiC/Al interfaces in Al based metal matrix composites. Scripta Metallurgica Et Materialia, 1990, 24, 1483-1487.	1.0	79
40	Effects of thickness and orientation on the small scale fracture behaviour of additively manufactured Ti-6Al-4V. Materials Characterization, 2018, 143, 94-109.	1.9	79
41	Observations on the effects of particulate size and superposed pressure on deformation of metal matrix composites. Scripta Metallurgica Et Materialia, 1991, 25, 21-26.	1.0	77
42	Microstructure-property relationships in pearlitic eutectoid and hypereutectoid carbon steels. Jom, 2002, 54, 25-30.	0.9	75
43	Preliminary assessment of flow, notch toughness, and high temperature behavior of Cu <sub>60</sub> Zr <sub>20</sub> Hf <sub>10</sub> Ti <sub>10</sub> bulk metallic glass. Scripta Materialia, 2004, 51, 151-154.	2.6	72
44	Fatigue behavior of high-entropy alloys: A review. Science China Technological Sciences, 2018, 61, 168-178.	2.0	71
45	Micro- and macrostructural factors in DRA fracture resistance. Jom, 1993, 45, 30-35.	0.9	70
46	Processing and properties of Nb <sub>5</sub> Si <sub>3</sub> and tough Nb <sub>5</sub> Si <sub>3</sub> /Nb laminates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 155, 59-65.	2.6	68
47	On the slip systems in MoSi <sub>2</sub> . Acta Metallurgica Et Materialia, 1992, 40, 3159-3165.	1.9	65
48	Micromechanisms of cleavage fracture in fully pearlitic microstructures. Acta Metallurgica, 1987, 35, 1453-1462.	2.1	64
49	The effects of superimposed hydrostatic pressure on deformation and fracture: Part II. Particulate-reinforced 6061 composites. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 609-615.	1.4	64
50	Effects of carbon additions on the high temperature mechanical properties of molybdenum disilicide. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 155, 159-163.	2.6	62
51	Loading rate and test temperature effects on fracture of In Situ niobium silicide-niobium composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 3292-3306.	1.1	62
52	Effects of annealing and specimen geometry on dynamic compression of a Zr-based bulk metallic glass. Journal of Materials Research, 2007, 22, 389-401.	1.2	61
53	Spall strength and Hugoniot elastic limit of a zirconium-based bulk metallic glass under planar shock compression. Journal of Materials Research, 2007, 22, 402-411.	1.2	61
54	A Critical Review on Metallic Glasses as Structural Materials for Cardiovascular Stent Applications. Journal of Functional Biomaterials, 2018, 9, 19.	1.8	59

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55	Effects of aging condition on the fracture toughness of 2XXX and 7XXX series aluminum alloy composites. <i>Scripta Metallurgica</i> , 1989, 23, 301-304.	1.2	58
56	Delamination study using four-point bending of bilayers. <i>Journal of Materials Science</i> , 1997, 32, 3851-3856.	1.7	58
57	Laminated composites with improved toughness. <i>Scripta Metallurgica Et Materialia</i> , 1990, 24, 1515-1519.	1.0	56
58	Effects of Casting Conditions and Deformation Processing on A356 Aluminum and A356-20 Vol. % SiC Composites. <i>Journal of Composite Materials</i> , 1992, 26, 2076-2106.	1.2	56
59	Effects of microstructure of the behavior of an aluminum alloy and an aluminum matrix composite tested under low levels of superimposed hydrostatic pressure. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1989, 20, 2409-2417.	1.4	54
60	Pressure effects on metallic glasses. <i>Acta Materialia</i> , 2010, 58, 1026-1036.	3.8	53
61	Sample size and preparation effects on the tensile ductility of Pd-based metallic glass nanowires. <i>Acta Materialia</i> , 2015, 87, 1-7.	3.8	53
62	Effects of layer thickness on impact toughness of Al/AlSiCp laminates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 183, 59-67.	2.6	52
63	Chemistry (intrinsic) and inclusion (extrinsic) effects on the toughness and Weibull modulus of Fe-based bulk metallic glasses. <i>Philosophical Magazine Letters</i> , 2008, 88, 853-861.	0.5	51
64	Stability of nanosized oxides in ferrite under extremely high dose self ion irradiations. <i>Journal of Nuclear Materials</i> , 2017, 486, 86-95.	1.3	51
65	Ductile-to-brittle transition in a Ti-based bulk metallic glass. <i>Scripta Materialia</i> , 2009, 60, 1027-1030.	2.6	49
66	Effect of tube processing methods on microstructure, mechanical properties and irradiation response of 14YWT nanostructured ferritic alloys. <i>Acta Materialia</i> , 2017, 134, 116-127.	3.8	49
67	Effects of test temperature, grain size, and alloy additions on the cleavage fracture stress of polycrystalline niobium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1997, 28, 389-399.	1.1	45
68	Effects of test orientation on fracture and fatigue crack growth behavior of third generation as-cast Ti-48Al-2Nb-2Cr. <i>Intermetallics</i> , 2015, 57, 73-82.	1.8	45
69	Fracture toughness of monolithic nickel aluminide intermetallics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1992, 149, 143-151.	2.6	44
70	Periodic corrugation on dynamic fracture surface in brittle bulk metallic glass. <i>Applied Physics Letters</i> , 2006, 89, 181911.	1.5	44
71	Effects of impurity segregation on sustained load cracking of Cr-1Mo steels. Crack initiation. <i>Acta Metallurgica</i> , 1987, 35, 593-608.	2.1	43
72	Unconstrained and constrained tensile flow and fracture behavior of an Nb-1.24 At. Pct Si alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1995, 26, 1767-1776.	1.1	42

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73	The effects of hydrostatic pressure on the mechanical behavior of NiAl. Scripta Metallurgica Et Materialia, 1991, 25, 2017-2022.	1.0	41
74	In-situ deformation studies of an aluminum metal-matrix composite in a scanning electron microscope. Scripta Metallurgica, 1989, 23, 1801-1804.	1.2	40
75	Effects of load ratio, R, and test temperature on fatigue crack growth of fully pearlitic eutectoid steel (fatigue crack growth of pearlitic steel). International Journal of Fatigue, 2004, 26, 305-309.	2.8	40
76	Improved understanding of environment-induced cracking (EIC) of sensitized 5XXX series aluminium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 613-621.	2.6	40
77	Design of Inserts for Split-Hopkinson Pressure Bar Testing of Low Strain-to-Failure Materials. Experimental Mechanics, 2009, 49, 479-490.	1.1	38
78	Effect of microstructure and notch root radius on fracture toughness of an aluminum metal matrix composite. International Journal of Fracture, 1989, 40, R31-R34.	1.1	36
79	Quantitative evaluation of $\hat{\pm}$ -Al nano-particles in amorphous Al <sub>87</sub> Ni <sub>7</sub> Gd <sub>6</sub> – comparison of XRD, DSC, and TEM. Scripta Materialia, 2003, 48, 1537-1541.	2.6	36
80	Effect of high strain rates on peak stress in a Zr-based bulk metallic glass. Journal of Applied Physics, 2008, 104, .	1.1	36
81	Environmental effects on ductile-phase toughening in Nb <sub>5</sub> Si <sub>3</sub> -Nb composites. Jom, 1992, 44, 36-41.	0.9	35
82	Effects of Test Temperature and Loading Conditions on the Tensile Properties of a Zr-Based Bulk Metallic Glass. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 1922-1934.	1.1	35
83	Effects of surface laser treatments on microstructure, tension, and fatigue behavior of AISI 316LVM biomedical wires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 101-113.	2.6	35
84	The effects of superimposed hydrostatic pressure on deformation and fracture: Part I. Monolithic 6061 aluminum. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 601-608.	1.4	33
85	Effects of annealing at high pressure on structure and mechanical properties of Al <sub>87</sub> Ni <sub>7</sub> Gd <sub>6</sub> metallic glass. Intermetallics, 2002, 10, 1099-1103.	1.8	32
86	Effects of particulate volume fraction on cyclic stress response and fatigue life of AZ91D magnesium alloy metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 600, 188-194.	2.6	32
87	Effect of tube processing methods on the texture and grain boundary characteristics of 14YWT nanostructured ferritic alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 661, 222-232.	2.6	32
88	Influence of thickness in the fracture resistance of conventional and laminated DRA materials. Scripta Metallurgica Et Materialia, 1994, 31, 191-195.	1.0	31
89	Increased Toughness of Zirconium-Based Bulk Metallic Glasses Tested under Mixed Mode Conditions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 149-158.	1.1	31
90	Laminated nanostructure composites with improved bend ductility and toughness. Scripta Materialia, 2009, 61, 1072-1074.	2.6	30

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91	Pressure-induced dislocations and subsequent flow in NiAl. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 485-496.	1.9	29
92	Effects of test temperature, grain size, and alloy additions on the low-temperature fracture toughness of polycrystalline niobium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1997, 28, 2297-2307.	1.1	29
93	Tension and fatigue behavior of Al-2124A/SiC-particulate metal matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 770, 138518.	2.6	29
94	Mechanical behaviour of laminated metal composites. <i>International Materials Reviews</i> , 1996, 41, 169-197.	9.4	29
95	Effects of superimposed hydrostatic pressure on the fracture properties of particulate reinforced metal matrix composites. <i>Scripta Metallurgica</i> , 1989, 23, 253-256.	1.2	28
96	Effects of Changes in Test Temperature and Loading Conditions on Fracture Toughness of a Zr-Based Bulk Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 2077-2085.	1.1	28
97	Microstructural effects on tension behavior of Cu-15Ni-8Sn sheet. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 769-781.	2.6	28
98	Sensitization and remediation effects on environmentally assisted cracking of Al-Mg naval alloys. <i>Corrosion Science</i> , 2018, 138, 219-241.	3.0	28
99	Yielding and work hardening effects in notched bend bars. <i>Journal of the Mechanics and Physics of Solids</i> , 1986, 34, 433-454.	2.3	27
100	The decrease in yield strength in NiAl due to hydrostatic pressure. <i>Scripta Metallurgica Et Materialia</i> , 1992, 26, 1733-1736.	1.0	27
101	Crack bridging in a laminated metal matrix composite. <i>Scripta Metallurgica Et Materialia</i> , 1994, 31, 607-612.	1.0	27
102	The fracture resistance of layered DRA materials: Influence of laminae thickness. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997, 229, 1-9.	2.6	26
103	Delamination of a sensitized commercial Al-Mg alloy during fatigue crack growth. <i>Scripta Materialia</i> , 2010, 63, 799-802.	2.6	26
104	Model experiments to mimic fracture surface features in metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2207-2213.	2.6	26
105	Effects of hydrostatic pressure on mechanical behaviour and deformation processing of materials. <i>International Materials Reviews</i> , 1998, 43, 145-187.	9.4	26
106	Notch effects on tensile behavior of Ni <sub>3</sub> Al and Ni <sub>3</sub> Al + B. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1989, 20, 1247-1255.	1.4	25
107	Laminated composites with improved bend ductility and toughness. <i>Journal of Materials Science Letters</i> , 1991, 10, 461-463.	0.5	25
108	Effects of R-ratio on the fatigue crack growth of Nb-Si(ss) and Nb-10Si In Situ composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998, 29, 1749-1757.	1.1	25

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109	Effects of Thermal Exposure and Test Temperature on Structure Evolution and Hardness/Viscosity of an Iron-Based Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1314-1323.	1.1	25
110	Fatigue and fracture of wires and cables for biomedical applications. <i>International Materials Reviews</i> , 2016, 61, 231-314.	9.4	25
111	Fracture characteristics of an Al-Si-Mg model composite system. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993, 172, 63-69.	2.6	24
112	The effects of interstitial content, heat treatment, and prestrain on the tensile properties of NiAl. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 192-193, 179-185.	2.6	24
113	Inertial stabilization of buckling at high rates of loading and low test temperatures: Implications for dynamic crush resistance of aluminum-alloy-based sandwich plates with lattice core. <i>Acta Materialia</i> , 2007, 55, 2829-2840.	3.8	24
114	Anisotropy of corrosion and environmental cracking in AA5083-H128 Al-Mg alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 730, 367-379.	2.6	24
115	Effects of impurity segregation and test environment on sustained load cracking of steel II. Crack propagation. <i>Acta Metallurgica</i> , 1987, 35, 2081-2090.	2.1	23
116	Lead-induced solid metal embrittlement of an excess silicon Al-Mg-Si alloy at temperatures of 400°C to 800°C. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1992, 23, 1679-1689.	1.4	23
117	Effects of lamination and changes in layer thickness on fatigue-crack propagation of lightweight laminated metal composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 45-52.	1.1	23
118	Matrix effects on the ductility of aluminium-based composites deformed under hydrostatic pressure. <i>Journal of Materials Science Letters</i> , 1989, 8, 1447-1448.	0.5	22
119	{103} slip in MoSi <sub>2</sub> . <i>Philosophical Magazine Letters</i> , 1993, 67, 313-321.	0.5	22
120	Spall strength of a zirconium-based bulk metallic glass under shock-induced compression-and-shear loading. <i>Mechanics of Materials</i> , 2009, 41, 886-897.	1.7	22
121	Combined Mode I-Mode III Fracture Toughness of a Particulate Reinforced Metal-Matrix Composite. <i>Journal of Composite Materials</i> , 1991, 25, 831-841.	1.2	21
122	In-situ scanning electron microscope studies of crack growth in an aluminum metal-matrix composite. <i>Scripta Metallurgica Et Materialia</i> , 1990, 24, 2357-2362.	1.0	20
123	Interface Effects on the Quasi-Static and Impact Toughness of Discontinuously Reinforced Aluminum Laminates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 1993-2006.	1.1	20
124	Flex bending fatigue testing of wires, foils, and ribbons. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 601, 123-130.	2.6	20
125	Evolution of fatigue crack growth and fracture behavior in gamma titanium aluminide Ti-43.5Al-4Nb-1Mo-0.1B (TNM) forgings. <i>International Journal of Fatigue</i> , 2018, 111, 54-69.	2.8	20
126	Through-thickness inhomogeneity of environmentally assisted cracking (EAC) in AA5083-H128 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 740-741, 34-48.	2.6	20

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127	Intergranular fracture of Al <sub>i</sub> -Li alloys: Effects of aging and impurities. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1990, 123, 219-227.	2.6	19
128	Fatigue coxing experiments on a Zr-based bulk-metallic glass. <i>Scripta Materialia</i> , 2010, 62, 481-484.	2.6	19
129	Mathematical modeling and mechanical and histopathological testing of porous prosthetic pylon for direct skeletal attachment. <i>Journal of Rehabilitation Research and Development</i> , 2009, 46, 315.	1.6	19
130	Effects of lead on the sustained-load cracking of Al <sub>i</sub> -Mg <sub>i</sub> -Si at ambient temperatures. <i>Materials Science and Engineering</i> , 1987, 96, 185-195.	0.1	18
131	Effects of reinforcement size and distribution on fracture toughness of composite nickel aluminide intermetallics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1992, 158, 31-45.	2.6	18
132	The effects of reinforcement additions and heat treatment on the evolution of the poisson ratio during straining of discontinuously reinforced aluminum alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1995, 26, 2911-2921.	1.1	18
133	Fracture and Fatigue of Particulate MMCs. , 2000, , 151-187.		18
134	Microstructural effects on tension and fatigue behavior of Cu <sub>15</sub> Ni <sub>8</sub> Sn sheet. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 491, 137-146.	2.6	18
135	Shear yield and flow behavior of a zirconium-based bulk metallic glass. <i>Mechanics of Materials</i> , 2010, 42, 248-255.	1.7	18
136	Build Size and Orientation Influence on Mechanical Properties of Powder Bed Fusion Deposited Titanium Parts. <i>Metals</i> , 2020, 10, 1340.	1.0	18
137	Effects of Annealing and Pressure on Devitrification and Mechanical Properties of Amorphous Al <sub>87</sub> Ni <sub>7</sub> Gd <sub>6</sub> . <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 1935-1941.	1.1	17
138	Effects of microstructure on high strain rate deformation and flow behaviour of Al <sub>100</sub> -Mg <sub>100</sub> -Si alloy (AA) Tj ETQq0 0 0 rgBT /Overlock 10 Technology, 2011, 27, 13-20.	0.8	17
139	Poisson ratio measurements for an al-based metal matrix composite during elastic and plastic deformation. <i>Scripta Metallurgica Et Materialia</i> , 1993, 29, 199-204.	1.0	16
140	Enhanced fracture resistance in layered discontinuously reinforced aluminium. <i>Materials Science and Technology</i> , 1996, 12, 1001-1006.	0.8	16
141	Tension and fatigue behavior of 316LVM 1Ã—7 multi-strand cables used as implantable electrodes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 486, 447-454.	2.6	16
142	Stress-State Effects on the Fracture of a Zr-Ti-Ni-Cu-Be Bulk Amorphous Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 1758-1766.	1.1	16
143	Pre-exposure embrittlement of a commercial Al-Mg-Mn alloy, AA5083-H131. <i>Corrosion Reviews</i> , 2017, 35, 275-290.	1.0	16
144	Effects of build orientation and sample geometry on the mechanical response of miniature CP-Ti Grade 2 strut samples manufactured by laser powder bed fusion. <i>Additive Manufacturing</i> , 2020, 35, 101403.	1.7	16

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145	Interfacial fracture toughness measurement using indentation. <i>Journal of Materials Science</i> , 1994, 29, 4022-4026.	1.7	15
146	Flow and fracture of bimaterial systems based on aluminum alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996, 27, 3937-3947.	1.1	15
147	Effects of test temperature and grain size on the charpy impact toughness and dynamic toughness (K <sub>Tj</sub> ETQq1 1 0.784314 rgBT /Ov). <i>Materials Science</i> , 2003, 34, 967-978.	1.1	15
148	Effects of microstructural characteristics on mechanical properties of open-cell nickel foams. <i>Materials Science and Technology</i> , 2005, 21, 1355-1358.	0.8	15
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