

# John J Lewandowski

## List of Publications by Citations

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248  
papers

11,862  
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53  
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102  
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256  
ext. papers

12,898  
ext. citations

4.2  
avg, IF

6.68  
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#	Paper	IF	Citations
248	Intrinsic plasticity or brittleness of metallic glasses. <i>Philosophical Magazine Letters</i> , <b>2005</b> , 85, 77-87	1	927
247	Metal Additive Manufacturing: A Review of Mechanical Properties. <i>Annual Review of Materials Research</i> , <b>2016</b> , 46, 151-186	12.8	827
246	Temperature rise at shear bands in metallic glasses. <i>Nature Materials</i> , <b>2006</b> , 5, 15-18	27	736
245	Fracture of brittle metallic glasses: brittleness or plasticity. <i>Physical Review Letters</i> , <b>2005</b> , 94, 125510	7.4	435
244	Effects of matrix microstructure and particle distribution on fracture of an aluminum metal matrix composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1989</b> , 107, 241-255	5.3	334
243	Overview of Materials Qualification Needs for Metal Additive Manufacturing. <i>Jom</i> , <b>2016</b> , 68, 747-764	2.1	301
242	Mechanical Properties of Bulk Metallic Glasses. <i>MRS Bulletin</i> , <b>2007</b> , 32, 635-638	3.2	298
241	Strength and ductile-phase toughening in the two-phase Nb/Nb <sub>5</sub> Si <sub>3</sub> alloys. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1991</b> , 22, 1573-1583		265
240	High-entropy Al <sub>0.3</sub> CoCrFeNi alloy fibers with high tensile strength and ductility at ambient and cryogenic temperatures. <i>Acta Materialia</i> , <b>2017</b> , 123, 285-294	8.4	262
239	Ultrahigh-Temperature Nb-Silicide-Based Composites. <i>MRS Bulletin</i> , <b>2003</b> , 28, 646-653	3.2	241
238	Mechanical behaviour of laminated metal composites. <i>International Materials Reviews</i> , <b>1996</b> , 41, 169-197	16.1	238
237	Crack initiation and growth toughness of an aluminum metal-matrix composite. <i>Acta Metallurgica Et Materialia</i> , <b>1990</b> , 38, 489-496		222
236	Fracture toughness and notched toughness of bulk amorphous alloy: Zr-Ti-Ni-Cu-Be. <i>Scripta Materialia</i> , <b>1998</b> , 38, 1811-1817	5.6	210
235	Progress Towards Metal Additive Manufacturing Standardization to Support Qualification and Certification. <i>Jom</i> , <b>2017</b> , 69, 439-455	2.1	194
234	Understanding the Glass-forming Ability of Cu <sub>50</sub> Zr <sub>50</sub> Alloys in Terms of a Metastable Eutectic. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2307-2313	2.5	163
233	Effects of hydrostatic pressure on the flow and fracture of a bulk amorphous metal. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2002</b> , 82, 3427-3441		147
232	Defect distribution and microstructure heterogeneity effects on fracture resistance and fatigue behavior of EBM Ti <sub>6</sub> Al <sub>4</sub> V. <i>International Journal of Fatigue</i> , <b>2017</b> , 94, 263-287	5	139

231	Effects of superimposed hydrostatic pressure on flow and fracture of a Zr-Ti-Ni-Cu-Be bulk amorphous alloy. <i>Scripta Materialia</i> , <b>1999</b> , 41, 19-24	5.6	138
230	Effects of heat treatment and reinforcement size. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1993</b> , 24, 2531-2543		136
229	Carbon Additions to Molybdenum Disilicide: Improved High-Temperature Mechanical Properties. <i>Journal of the American Ceramic Society</i> , <b>1991</b> , 74, 2704-2706	3.8	134
228	Intrinsic and extrinsic toughening of metallic glasses. <i>Scripta Materialia</i> , <b>2006</b> , 54, 337-341	5.6	124
227	Tough Fe-based bulk metallic glasses. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 091918	3.4	106
226	Microstructural effects on the cleavage fracture stress of fully pearlitic eutectoid steel. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1986</b> , 17, 1769-1786		105
225	Compressive plasticity and toughness of a Ti-based bulk metallic glass. <i>Acta Materialia</i> , <b>2010</b> , 58, 1708-1720	16.0	99
224	Effects of hydrostatic pressure on mechanical behaviour and deformation processing of materials. <i>International Materials Reviews</i> , <b>1998</b> , 43, 145-187	16.1	99
223	Effects of Annealing and Changes in Stress State on Fracture Toughness of Bulk Metallic Glass. <i>Materials Transactions</i> , <b>2001</b> , 42, 633-637	1.3	98
222	Toughness, extrinsic effects and Poisson's ratio of bulk metallic glasses. <i>Acta Materialia</i> , <b>2012</b> , 60, 4800-4809	16.0	94
221	Fracture Toughness and Fatigue Crack Growth Behavior of As-Cast High-Entropy Alloys. <i>Jom</i> , <b>2015</b> , 67, 2288-2295	2.1	93
220	Effects of SiCp size and volume fraction on the high cycle fatigue behavior of AZ91D magnesium alloy composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1996</b> , 220, 85-92	5.3	87
219	Deformation and fracture toughness of a bulk amorphous ZrTiNiCuBe alloy. <i>Intermetallics</i> , <b>2000</b> , 8, 487-492	3.5	85
218	Dynamic deformation behavior of Al <sub>7</sub> Zn <sub>7</sub> Mg <sub>7</sub> Cu alloy matrix composites reinforced with 20 Vol.% SiC. <i>Acta Metallurgica Et Materialia</i> , <b>1993</b> , 41, 2337-2351		84
217	Local temperature rises during mechanical testing of metallic glasses. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 419-427	2.5	81
216	Evaluation of Orientation Dependence of Fracture Toughness and Fatigue Crack Propagation Behavior of As-Deposited ARCAM EBM Ti-6Al-4V. <i>Jom</i> , <b>2015</b> , 67, 597-607	2.1	79
215	Deformation and fracture behavior of Nb in Nb <sub>5</sub> Si <sub>3</sub> /Nb laminates and its effect on laminate toughness. <i>Acta Metallurgica Et Materialia</i> , <b>1995</b> , 43, 1955-1967		79
214	The mechanism of mechanical alloying of MoSi <sub>2</sub> . <i>Journal of Materials Research</i> , <b>1993</b> , 8, 1311-1316	2.5	74

213	Effect of reinforcement size and matrix microstructure on the fracture properties of an aluminum metal matrix composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1992</b> , 150, 179-186	5.3	74
212	Segregation to SiC/Al interfaces in Al based metal matrix composites. <i>Scripta Metallurgica Et Materialia</i> , <b>1990</b> , 24, 1483-1487		74
211	Effects of HIP on microstructural heterogeneity, defect distribution and mechanical properties of additively manufactured EBM Ti-48Al-2Cr-2Nb. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 729, 1118-1135	5.7	73
210	Observations on the effects of particulate size and superposed pressure on deformation of metal matrix composites. <i>Scripta Metallurgica Et Materialia</i> , <b>1991</b> , 25, 21-26		71
209	Effects of the prior austenite grain size on the ductility of fully pearlitic eutectoid steel. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1986</b> , 17, 461-472		70
208	Preliminary assessment of flow, notch toughness, and high temperature behavior of Cu60Zr20Hf10Ti10 bulk metallic glass. <i>Scripta Materialia</i> , <b>2004</b> , 51, 151-154	5.6	67
207	On the slip systems in MoSi <sub>2</sub> . <i>Acta Metallurgica Et Materialia</i> , <b>1992</b> , 40, 3159-3165		64
206	Processing and properties of Nb <sub>5</sub> Si <sub>3</sub> and tough Nb <sub>5</sub> Si <sub>3</sub> /Nb laminates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1992</b> , 155, 59-65	5.3	63
205	Microstructure-property relationships in pearlitic eutectoid and hypereutectoid carbon steels. <i>Jom</i> , <b>2002</b> , 54, 25-30	2.1	62
204	Loading rate and test temperature effects on fracture of In Situ niobium silicide-niobium composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>1996</b> , 27, 3292-3306	2.3	61
203	Micro- and macrostructural factors in DRA fracture resistance. <i>Jom</i> , <b>1993</b> , 45, 30-35	2.1	61
202	Micromechanisms of cleavage fracture in fully pearlitic microstructures. <i>Acta Metallurgica</i> , <b>1987</b> , 35, 1453-1462		61
201	The effects of superimposed hydrostatic pressure on deformation and fracture: Part II. Particulate-reinforced 6061 composites. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1993</b> , 24, 609-615		59
200	Effects of annealing and specimen geometry on dynamic compression of a Zr-based bulk metallic glass. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 389-401	2.5	57
199	Effects of carbon additions on the high temperature mechanical properties of molybdenum disilicide. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1992</b> , 155, 159-163	5.3	57
198	Effects of aging condition on the fracture toughness of 2XXX and 7XXX series aluminum alloy composites. <i>Scripta Metallurgica</i> , <b>1989</b> , 23, 301-304		55
197	Spall strength and Hugoniot elastic limit of a zirconium-based bulk metallic glass under planar shock compression. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 402-411	2.5	53
196	Fatigue behavior of high-entropy alloys: A review. <i>Science China Technological Sciences</i> , <b>2018</b> , 61, 168-178	5.5	53

195	Effects of Casting Conditions and Deformation Processing on A356 Aluminum and A356-20 Vol. % SiC Composites. <i>Journal of Composite Materials</i> , <b>1992</b> , 26, 2076-2106	2.7	52
194	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> , <b>1989</b> , 20, 2409-2417		52
193	Pressure effects on metallic glasses. <i>Acta Materialia</i> , <b>2010</b> , 58, 1026-1036	8.4	47
192	Ductile-to-brittle transition in a Ti-based bulk metallic glass. <i>Scripta Materialia</i> , <b>2009</b> , 60, 1027-1030	5.6	45
191	Effects of layer thickness on impact toughness of Al/AlSiCp laminates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1994</b> , 183, 59-67	5.3	45
190	Stability of nanosized oxides in ferrite under extremely high dose self ion irradiations. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 486, 86-95	3.3	44
189	Effects of thickness and orientation on the small scale fracture behaviour of additively manufactured Ti-6Al-4V. <i>Materials Characterization</i> , <b>2018</b> , 143, 94-109	3.9	44
188	Laminated composites with improved toughness. <i>Scripta Metallurgica Et Materialia</i> , <b>1990</b> , 24, 1515-1519		44
187	Sample size and preparation effects on the tensile ductility of Pd-based metallic glass nanowires. <i>Acta Materialia</i> , <b>2015</b> , 87, 1-7	8.4	43
186	A Critical Review on Metallic Glasses as Structural Materials for Cardiovascular Stent Applications. <i>Journal of Functional Biomaterials</i> , <b>2018</b> , 9,	4.8	41
185	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> , <b>1997</b> , 28, 389-399	2.3	41
184	Chemistry (intrinsic) and inclusion (extrinsic) effects on the toughness and Weibull modulus of Fe-based bulk metallic glasses. <i>Philosophical Magazine Letters</i> , <b>2008</b> , 88, 853-861	1	41
183	Periodic corrugation on dynamic fracture surface in brittle bulk metallic glass. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 181911	3.4	40
182	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> , <b>1995</b> , 26, 1767-1776	2.3	40
181	The effects of hydrostatic pressure on the mechanical behavior of NiAl. <i>Scripta Metallurgica Et Materialia</i> , <b>1991</b> , 25, 2017-2022		40
180	Fracture toughness of monolithic nickel aluminide intermetallics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1992</b> , 149, 143-151	5.3	39
179	Effect of tube processing methods on microstructure, mechanical properties and irradiation response of 14YWT nanostructured ferritic alloys. <i>Acta Materialia</i> , <b>2017</b> , 134, 116-127	8.4	36
178	Effect of microstructure and notch root radius on fracture toughness of an aluminum metal matrix composite. <i>International Journal of Fracture</i> , <b>1989</b> , 40, R31-R34	2.3	36

177	Effects of impurity segregation on sustained load cracking of Cr-1Mo steels□ Crack initiation. <i>Acta Metallurgica</i> , <b>1987</b> , 35, 593-608		36
176	Effects of test orientation on fracture and fatigue crack growth behavior of third generation as-cast Ti <sub>8</sub> Al <sub>2</sub> Nb <sub>2</sub> Cr. <i>Intermetallics</i> , <b>2015</b> , 57, 73-82	3.5	35
175	In-situ deformation studies of an aluminum metal-matrix composite in a scanning electron microscope. <i>Scripta Metallurgica</i> , <b>1989</b> , 23, 1801-1804		35
174	Effects of surface laser treatments on microstructure, tension, and fatigue behavior of AISI 316LVM biomedical wires. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 688, 101-113	5.3	34
173	Effects of load ratio, R, and test temperature on fatigue crack growth of fully pearlitic eutectoid steel (fatigue crack growth of pearlitic steel). <i>International Journal of Fatigue</i> , <b>2004</b> , 26, 305-309	5	34
172	Design of Inserts For Split-Hopkinson Pressure Bar Testing of Low Strain-to-Failure Materials. <i>Experimental Mechanics</i> , <b>2009</b> , 49, 479-490	2.6	32
171	Delamination study using four-point bending of bilayers. <i>Journal of Materials Science</i> , <b>1997</b> , 32, 3851-3856	4.3	32
170	Effects of Test Temperature and Loading Conditions on the Tensile Properties of a Zr-Based Bulk Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 1922-1934	2.3	32
169	Quantitative evaluation of $\beta$ -Al nano-particles in amorphous Al <sub>87</sub> Ni <sub>7</sub> Gd <sub>6</sub> □ comparison of XRD, DSC, and TEM. <i>Scripta Materialia</i> , <b>2003</b> , 48, 1537-1541	5.6	32
168	Effect of high strain rates on peak stress in a Zr-based bulk metallic glass. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 093522	2.5	31
167	Environmental effects on ductile-phase toughening in Nb <sub>5</sub> Si <sub>3</sub> -Nb composites. <i>Jom</i> , <b>1992</b> , 44, 36-41	2.1	31
166	The effects of superimposed hydrostatic pressure on deformation and fracture: Part I. Monolithic 6061 aluminum. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1993</b> , 24, 601-608		31
165	Improved understanding of environment-induced cracking (EIC) of sensitized 5XXX series aluminium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 613-621	5.3	29
164	Increased Toughness of Zirconium-Based Bulk Metallic Glasses Tested under Mixed Mode Conditions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2010</b> , 41, 149-158	2.3	29
163	Mechanical behaviour of laminated metal composites		29
162	Pressure-induced dislocations and subsequent flow in NiAl. <i>Acta Metallurgica Et Materialia</i> , <b>1993</b> , 41, 485-496		28
161	Laminated nanostructure composites with improved bend ductility and toughness. <i>Scripta Materialia</i> , <b>2009</b> , 61, 1072-1074	5.6	26
160	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> , <b>2008</b> , 39, 2077-2085	2.3	26

159	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. <i>Intermetallics</i> , <b>2002</b> , 10, 1099-1103	3.5	26
158	The decrease in yield strength in NiAl due to hydrostatic pressure. <i>Scripta Metallurgica Et Materialia</i> , <b>1992</b> , 26, 1733-1736		26
157	Effects of superimposed hydrostatic pressure on the fracture properties of particulate reinforced metal matrix composites. <i>Scripta Metallurgica</i> , <b>1989</b> , 23, 253-256		26
156	Yielding and work hardening effects in notched bend bars. <i>Journal of the Mechanics and Physics of Solids</i> , <b>1986</b> , 34, 433-454	5	26
155	Effect of tube processing methods on the texture and grain boundary characteristics of 14YWT nanostructured ferritic alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 661, 222-232	5.3	25
154	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> , <b>1997</b> , 28, 2297-2307	2.3	25
153	Effects of hydrostatic pressure on mechanical behaviour and deformation processing of materials		25
152	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> , <b>2009</b> , 40, 1314-1323	2.3	24
151	Delamination of a sensitized commercial AlMg alloy during fatigue crack growth. <i>Scripta Materialia</i> , <b>2010</b> , 63, 799-802	5.6	24
150	Microstructural effects on tension 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> , <b>2010</b> , 527, 769-781	5.3	24
149	Influence of thickness in the fracture resistance of conventional and laminated DRA materials. <i>Scripta Metallurgica Et Materialia</i> , <b>1994</b> , 31, 191-195		24
148	Crack bridging in a laminated metal matrix composite. <i>Scripta Metallurgica Et Materialia</i> , <b>1994</b> , 31, 607-612		24
147	Laminated composites with improved bend ductility and toughness. <i>Journal of Materials Science Letters</i> , <b>1991</b> , 10, 461-463		24
146	The fracture resistance of layered DRA materials: Influence of laminae thickness. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 229, 1-9	5.3	23
145	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> , <b>1989</b> , 20, 1247-1255		23
144	Effects of particulate volume fraction on cyclic stress response and fatigue life of AZ91D magnesium alloy metal matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 600, 188-194	5.3	22
143	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> , <b>1998</b> , 29, 1749-1757	2.3	22
142	{103}<331> slip in MoSi <sub>2</sub> . <i>Philosophical Magazine Letters</i> , <b>1993</b> , 67, 313-321	1	22

141	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> , <b>1995</b> , 192-193, 179-185	5.3	22
140	Model experiments to mimic fracture surface features in metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 2207-2213	5.3	21
139	Fracture characteristics of an AlSiMg model composite system. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1993</b> , 172, 63-69	5.3	21
138	Flex bending fatigue testing of wires, foils, and ribbons. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 601, 123-130	5.3	20
137	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> , <b>2004</b> , 35, 45-52	2.3	20
136	Combined Mode I-Mode III Fracture Toughness of a Particulate Reinforced Metal-Matrix Composite. <i>Journal of Composite Materials</i> , <b>1991</b> , 25, 831-841	2.7	20
135	Lead-induced solid metal embrittlement of an excess silicon AlMgSi alloy at temperatures of 0°C to 80°C. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1992</b> , 23, 1679-1689		20
134	Effects of impurity segregation and test environment on sustained load cracking of steel. Crack propagation. <i>Acta Metallurgica</i> , <b>1987</b> , 35, 2081-2090		20
133	Fatigue and fracture of wires and cables for biomedical applications. <i>International Materials Reviews</i> , <b>2016</b> , 61, 231-314	16.1	20
132	Spall strength of a zirconium-based bulk metallic glass under shock-induced compression-and-shear loading. <i>Mechanics of Materials</i> , <b>2009</b> , 41, 886-897	3.3	19
131	Fatigue coxing experiments on a Zr-based bulk-metallic glass. <i>Scripta Materialia</i> , <b>2010</b> , 62, 481-484	5.6	19
130	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> , <b>2007</b> , 55, 2829-2840	8.4	19
129	Intergranular fracture of Al-Li alloys: Effects of aging and impurities. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1990</b> , 123, 219-227	5.3	19
128	Matrix effects on the ductility of aluminium-based composites deformed under hydrostatic pressure. <i>Journal of Materials Science Letters</i> , <b>1989</b> , 8, 1447-1448		18
127	In-situ scanning electron microscope studies of crack growth in an aluminum metal-matrix composite. <i>Scripta Metallurgica Et Materialia</i> , <b>1990</b> , 24, 2357-2362		18
126	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> , <b>2008</b> , 39, 1935-1941	2.3	17
125	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> , <b>2008</b> , 39, 1993-2006	2.3	17
124	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> , <b>1995</b> , 26, 2911-2921	2.3	17



123	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> , <b>1992</b> , 158, 31-45	5.3	17
122	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> , <b>2020</b> , 770, 138518	5.3	17
121	Sensitization and remediation effects on environmentally assisted cracking of Al-Mg naval alloys. <i>Corrosion Science</i> , <b>2018</b> , 138, 219-241	6.8	16
120	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> , <b>2010</b> , 41, 1758-1766	2.3	16
119	Tension and fatigue behavior of 316LVM 1x7 multi-strand cables used as implantable electrodes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 486, 447-454	5.3	16
118	Effects of lead on the sustained-load cracking of Al/Mg/Si at ambient temperatures. <i>Materials Science and Engineering</i> , <b>1987</b> , 96, 185-195		16
117	Guiding and Deflecting Cracks in Bulk Metallic Glasses to Increase Damage Tolerance. <i>Advanced Engineering Materials</i> , <b>2015</b> , 17, 620-625	3.5	15
116	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> , <b>2018</b> , 730, 367-379	5.3	15
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108	Effects of Changes in Notch Radius and Test Temperature on the Toughness of a Nano-crystalline Aluminum Alloy Composite Produced via Extrusion of Amorphous Aluminum Alloy Powders. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 497, 212-215	5.3	14
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104	Yield point behavior in NiAl. <i>Scripta Metallurgica Et Materialia</i> , <b>1993</b> , 29, 1309-1312		13
103	Interfacial fracture toughness measurement using indentation. <i>Journal of Materials Science</i> , <b>1994</b> , 29, 4022-4026	4.3	13
102	Process Mapping, Fracture and Fatigue Behavior of Ti-6Al-4V Produced by Ebm Additive Manufacturing <b>2016</b> , 1373-1377		13
101	Pre-exposure embrittlement of a commercial Al-Mg-Mn alloy, AA5083-H131. <i>Corrosion Reviews</i> , <b>2017</b> , 35, 275-290	3.2	12
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