

# Lawrence Murr

## List of Publications by Citations

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ext. papers

13,488  
ext. citations

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#	Paper	IF	Citations
253	Metal Fabrication by Additive Manufacturing Using Laser and Electron Beam Melting Technologies. <i>Journal of Materials Science and Technology</i> , <b>2012</b> , 28, 1-14	9.1	978
252	Microstructures and mechanical behavior of Inconel 718 fabricated by selective laser melting. <i>Acta Materialia</i> , <b>2012</b> , 60, 2229-2239	8.4	679
251	Microstructure and mechanical behavior of Ti-6Al-4V produced by rapid-layer manufacturing, for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2009</b> , 2, 20-32	4.1	674
250	Microstructures and mechanical properties of electron beam-rapid manufactured Ti6Al4V biomedical prototypes compared to wrought Ti6Al4V. <i>Materials Characterization</i> , <b>2009</b> , 60, 96-105	3.9	412
249	Flow patterns during friction stir welding. <i>Materials Characterization</i> , <b>2002</b> , 49, 95-101	3.9	403
248	Characterization of titanium aluminide alloy components fabricated by additive manufacturing using electron beam melting. <i>Acta Materialia</i> , <b>2010</b> , 58, 1887-1894	8.4	334
247	Fabrication of Metal and Alloy Components by Additive Manufacturing: Examples of 3D Materials Science. <i>Journal of Materials Research and Technology</i> , <b>2012</b> , 1, 42-54	5.5	300
246	Cytotoxic effects of aggregated nanomaterials. <i>Acta Biomaterialia</i> , <b>2007</b> , 3, 351-8	10.8	254
245	Flow visualization and residual microstructures associated with the friction-stir welding of 2024 aluminum to 6061 aluminum. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1999</b> , 271, 213-223	5.3	246
244	Microstructures and Properties of 17-4 PH Stainless Steel Fabricated by Selective Laser Melting. <i>Journal of Materials Research and Technology</i> , <b>2012</b> , 1, 167-177	5.5	235
243	Compression deformation behavior of Ti-6Al-4V alloy with cellular structures fabricated by electron beam melting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 16, 153-62	4.1	215
242	Heat Input and Temperature Distribution in Friction Stir Welding. <i>Journal of Materials Processings and Manufacturing Science</i> , <b>1998</b> , 7, 163-172		209
241	Influence of cell shape on mechanical properties of Ti-6Al-4V meshes fabricated by electron beam melting method. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 4537-47	10.8	206
240	Compression fatigue behavior of Ti6Al4V mesh arrays fabricated by electron beam melting. <i>Acta Materialia</i> , <b>2012</b> , 60, 793-802	8.4	200
239	Characterization of Ti6Al4V open cellular foams fabricated by additive manufacturing using electron beam melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 1861-1868	5.3	194
238	Recent progress in magnesium-lithium alloys. <i>International Materials Reviews</i> , <b>2015</b> , 60, 65-100	16.1	192
237	Comparative in vitro cytotoxicity assessment of some manufacturednanoparticulate materials characterized by transmissionelectron microscopy. <i>Journal of Nanoparticle Research</i> , <b>2005</b> , 7, 145-169	2.3	187

236	Microstructures in friction-stir welded dissimilar magnesium alloys and magnesium alloys to 6061-T6 aluminum alloy. <i>Materials Characterization</i> , <b>2004</b> , 52, 49-64	3.9	186
235	Microstructure and mechanical properties of open-cellular biomaterials prototypes for total knee replacement implants fabricated by electron beam melting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 1396-411	4.1	185
234	A model for the formation of annealing twins in F.C.C. metals and alloys. <i>Acta Metallurgica</i> , <b>1978</b> , 26, 951-962		175
233	Frontiers of 3D Printing/Additive Manufacturing: from Human Organs to Aircraft Fabrication□ <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 987-995	9.1	163
232	A Review of FSW Research on Dissimilar Metal and Alloy Systems. <i>Journal of Materials Engineering and Performance</i> , <b>2010</b> , 19, 1071-1089	1.6	162
231	Evaluation of Titanium Alloys Fabricated Using Rapid Prototyping Technologies-Electron Beam Melting and Laser Beam Melting. <i>Materials</i> , <b>2011</b> , 4, 1776-1792	3.5	156
230	Novel precipitate microstructural architecture developed in the fabrication of solid copper components by additive manufacturing using electron beam melting. <i>Acta Materialia</i> , <b>2011</b> , 59, 4088-4099	8.4	140
229	Nucleation and evolution of strain-induced martensitic (b.c.c.) embryos and substructure in stainless steel: A transmission electron microscope study. <i>Acta Metallurgica</i> , <b>1983</b> , 31, 267-274		138
228	Metallurgy of additive manufacturing: Examples from electron beam melting. <i>Additive Manufacturing</i> , <b>2015</b> , 5, 40-53	6.1	136
227	Fundamental studies of the contribution of galvanic interaction to acid-bacterial leaching of mixed metal sulfides. <i>Hydrometallurgy</i> , <b>1983</b> , 9, 235-256	4	136
226	Characterization of tool wear and weld optimization in the friction-stir welding of cast aluminum 359+20% SiC metal-matrix composite. <i>Materials Characterization</i> , <b>2004</b> , 52, 65-75	3.9	131
225	Self-optimization in tool wear for friction-stir welding of Al 6061+20% Al <sub>2</sub> O <sub>3</sub> MMC. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 349, 156-165	5.3	130
224	Friction-stir welding of magnesium alloy AZ31B. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 917-920		124
223	Microstructure evolution associated with adiabatic shear bands and shear band failure in ballistic plug formation in TiB <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> targets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 516, 205-216	5.3	110
222	Experimental and theoretical observations on the relationship between dislocation cell size, dislocation density, residual hardness, peak pressure and pulse duration in shock-loaded nickel. <i>Acta Metallurgica</i> , <b>1978</b> , 26, 847-857		107
221	Open-cellular copper structures fabricated by additive manufacturing using electron beam melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 5379-5386	5.3	104
220	Galvanic interaction between chalcopyrite and pyrite during bacterial leaching of low-grade waste. <i>Hydrometallurgy</i> , <b>1978</b> , 3, 309-326	4	101
219	Microstructures of Rene 142 nickel-based superalloy fabricated by electron beam melting. <i>Acta Materialia</i> , <b>2013</b> , 61, 4289-4296	8.4	85

218	A TEM study of soot, carbon nanotubes, and related fullerene nanopolyhedra in common fuel-gas combustion sources. <i>Materials Characterization</i> , <b>2005</b> , 55, 50-65	3.9	83
217	Combined effects of deformation (strain and strain state), grain size, and carbon content on carbide precipitation and corrosion sensitization in 304 stainless steel. <i>Materials Characterization</i> , <b>1995</b> , 35, 99-112	3.9	74
216	Temperature coefficient of twin-boundary energy: The determination of stacking-fault energy from the coherent twin-boundary energy in pure F.C.C. metals. <i>Scripta Metallurgica</i> , <b>1972</b> , 6, 203-208		73
215	Kinetic study of sulfide leaching by galvanic interaction between chalcopyrite, pyrite, and sphalerite in the presence of <i>T. ferrooxidans</i> (30 degrees C) and a thermophilic microorganism (55 degrees C). <i>Biotechnology and Bioengineering</i> , <b>1982</b> , 24, 919-40	4.9	69
214	Biocompatibility and mechanical behaviour of three-dimensional scaffolds for biomedical devices: process-structure-property paradigm. <i>International Materials Reviews</i> , <b>2016</b> , 61, 20-45	16.1	67
213	3D metal droplet printing development and advanced materials additive manufacturing. <i>Journal of Materials Research and Technology</i> , <b>2017</b> , 6, 77-89	5.5	64
212	Direct observations of selective attachment of bacteria on low-grade sulfide ores and other mineral surfaces. <i>Hydrometallurgy</i> , <b>1976</b> , 2, 11-24	4	62
211	Effect of shock pressure, pulse duration, and grain size on shock-deformation twinning in molybdenum. <i>Materials Science and Engineering</i> , <b>1978</b> , 35, 273-285		59
210	Measurement of interfacial free energies and associated temperature coefficients in 304 stainless steel. <i>Acta Metallurgica</i> , <b>1973</b> , 21, 595-604		59
209	Chemistry and nanoparticulate compositions of a 10,000 year-old ice core melt water. <i>Water Research</i> , <b>2004</b> , 38, 4282-96	12.5	58
208	Twin boundary energetics in pure aluminium. <i>Acta Metallurgica</i> , <b>1973</b> , 21, 791-797		56
207	Plant Growth Response in a Simulated Electric Field-environment. <i>Nature</i> , <b>1963</b> , 200, 490-491	50.4	56
206	Effect of Grain size, dislocation cell size and deformation twin spacing on the residual strengthening of shock-loaded nickel. <i>Materials Science and Engineering</i> , <b>1979</b> , 39, 81-93		52
205	Interplay between self-assembled structure of bone morphogenetic protein-2 (BMP-2) and osteoblast functions in three-dimensional titanium alloy scaffolds: Stimulation of osteogenic activity. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 517-32	5.4	51
204	Multi-material metallic structure fabrication using electron beam melting. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 71, 33-45	3.2	51
203	Effect of stress amplitude and stress duration on twinning and phase transformations in shock-loaded and cold-rolled 304 stainless steel. <i>Materials Science and Engineering</i> , <b>1975</b> , 20, 35-46		51
202	Friction-stir welding of aluminum alloy 2024 to silver. <i>Journal of Materials Science Letters</i> , <b>2000</b> , 19, 1047-1051		50
201	Work hardening and the pressure dependence of dislocation density and arrangements in shock loaded nickel and copper. <i>Scripta Metallurgica</i> , <b>1978</b> , 12, 201-206		50

200	Microstructures and Hardness Properties for $\beta$ -Phase Ti <sub>4</sub> Nb <sub>4</sub> Zr <sub>7</sub> .9Sn Alloy Fabricated by Electron Beam Melting. <i>Journal of Materials Science and Technology</i> , <b>2013</b> , 29, 1011-1017	9.1	48
199	Defect microstructure and mechanical properties in shock-hardened metals. <i>Experimental Mechanics</i> , <b>1969</b> , 9, 145-155	2.6	47
198	Interplay between cellular activity and three-dimensional scaffold-cell constructs with different foam structure processed by electron beam melting. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 1677-92	5.4	45
197	Comparison of tungsten heavy-alloy rod penetration into ductile and hard metal targets: microstructural analysis and computer simulations. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 325, 131-143	5.3	43
196	Kinetic effects of particle-size and crystal dislocation density on the dichromate leaching of chalcopyrite. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , <b>1981</b> , 12, 255-267		43
195	Study of Erbium Thin Film Oxidation in the Electron Microscope. <i>Physica Status Solidi (B): Basic Research</i> , <b>1967</b> , 24, 135-148	1.3	43
194	A TEM analysis of nanoparticulates in a Polar ice core. <i>Materials Characterization</i> , <b>2004</b> , 52, 15-25	3.9	42
193	Evaluation of mechanical and corrosion biocompatibility of TiTa alloys. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2001</b> , 12, 283-92	4.5	42
192	Interactive effects of shock loading parameters on the substructure and mechanical properties of nickel and stainless steel. <i>Materials Science and Engineering</i> , <b>1979</b> , 37, 249-269		42
191	Influence of deposit morphology on the kinetics of copper cementation on pure iron. <i>Hydrometallurgy</i> , <b>1979</b> , 4, 57-82	4	42
190	Direct observations of vacancies and vacancy-type defects in molybdenum following uniaxial shock-wave compression. <i>Acta Metallurgica</i> , <b>1976</b> , 24, 261-270		42
189	Relationship of grain size and deformation mechanism to the fracture behavior in high strength-high ductility nanostructured austenitic stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 626, 41-50	5.3	40
188	Microstructural and Process Characterization of Conductive Traces Printed from Ag Particulate Inks. <i>Materials</i> , <b>2011</b> , 4, 963-979	3.5	40
187	Effect of environmental parameters on the efficiency of biodegradation of basalt rock by fungi. <i>Biotechnology and Bioengineering</i> , <b>1979</b> , 21, 875-885	4.9	40
186	End cap nucleation of carbon nanotubes. <i>Carbon</i> , <b>2006</b> , 44, 447-455	10.4	39
185	Carbon nanotubes and other fullerene nanocrystals in domestic propane and natural gas combustion streams. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2004</b> , 4, 716-8	1.3	39
184	Comparison of residual microstructures associated with impact craters in fcc stainless steel and bcc iron targets: the microtwin versus microband issue. <i>Acta Materialia</i> , <b>2002</b> , 50, 121-131	8.4	39
183	Carbon nanotubes in wood soot. <i>Atmospheric Science Letters</i> , <b>2006</b> , 7, 93-95	2.4	38

182	Strain-induced dislocation emission from grain boundaries in stainless steel. <i>Materials Science and Engineering</i> , <b>1981</b> , 51, 71-79		38
181	Acid-bacterial and ferric sulfate leaching of pyrite single crystals. <i>Biotechnology and Bioengineering</i> , <b>1982</b> , 24, 83-96	4.9	38
180	Biological effects of nanoparticulate materials. <i>Materials Science and Engineering C</i> , <b>2006</b> , 26, 1421-1427.3		37
179	Large strain plastic deformation of commercially pure nickel. <i>Metal Science</i> , <b>1983</b> , 17, 198-208		37
178	Experimental observations and computer simulations for metallic projectile fragmentation and impact crater development in thick metal targets. <i>International Journal of Impact Engineering</i> , <b>2006</b> , 32, 1981-1999	4	36
177	Evidence of low-temperature superparamagnetism in Mn <sub>3</sub> O <sub>4</sub> nanoparticle ensembles. <i>Nanotechnology</i> , <b>2010</b> , 21, 365703	3.4	35
176	Combustion-generated nanoparticulates in the El Paso, TX, USA / Juarez, Mexico Metroplex: their comparative characterization and potential for adverse health effects. <i>International Journal of Environmental Research and Public Health</i> , <b>2006</b> , 3, 48-66	4.6	34
175	The effects of kinetic variables on the structure of copper deposits cemented on pure aluminum discs: A scanning electron microscopic study. <i>Hydrometallurgy</i> , <b>1978</b> , 3, 163-180	4	34
174	Cytotoxic responses and potential respiratory health effects of carbon and carbonaceous nanoparticulates in the Paso del Norte airshed environment. <i>International Journal of Environmental Research and Public Health</i> , <b>2008</b> , 5, 12-25	4.6	33
173	Characterization of nanostructure phenomena in airborne particulate aggregates and their potential for respiratory health effects. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2004</b> , 15, 237-47	4.5	33
172	Novel deformation processes and microstructures involving ballistic penetrator formation and hypervelocity impact and penetration phenomena. <i>Materials Characterization</i> , <b>1996</b> , 37, 245-276	3.9	33
171	Explosive consolidation of an amorphous iron-base powder. <i>Scripta Metallurgica</i> , <b>1983</b> , 17, 1353-1357		33
170	Comparison of residual microstructures for 304 stainless steel shock loaded in plane and cylindrical geometries: Implications for dynamic compaction and forming. <i>Acta Metallurgica</i> , <b>1985</b> , 33, 677-684		32
169	Biological Response of Next-Generation of 3D Ti-6Al-4V Biomedical Devices Using Additive Manufacturing of Cellular and Functional Mesh Structures. <i>Journal of Biomaterials and Tissue Engineering</i> , <b>2014</b> , 4, 755-771	0.3	31
168	Transmission electron microscope study of crystal defects in natural fluorite. <i>Physica Status Solidi A</i> , <b>1974</b> , 22, 239-251		30
167	In vivo corrosion, tumor outcome, and microarray gene expression for two types of muscle-implanted tungsten alloys. <i>Toxicology and Applied Pharmacology</i> , <b>2012</b> , 265, 128-38	4.6	29
166	Characterization and comparison of microstructures in the shaped-charge regime: copper and tantalum. <i>Materials Characterization</i> , <b>1993</b> , 30, 201-216	3.9	29
165	Effect of prestrain and stacking-fault energy on the application of the Hall-Petch relation in fcc metals and alloys. <i>Metallography</i> , <b>1980</b> , 13, 203-224		29



164	Optimization of the shear strengths of ultrasonically consolidated Ti/Al 3003 dual-material structures. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 988-995	5.3	28
163	Microbands and shear-related microstructural phenomena associated with impact craters in 6061-T6 aluminum. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1996</b> , 216, 69-79	5.3	28
162	Measurement of interfacial energy of adhesion by scanning electron microscopy. <i>Materials Science and Engineering</i> , <b>1973</b> , 12, 277-283		28
161	Effects of deformation (strain) and heat treatment on grain boundary sensitization and precipitation in austenitic stainless steels. <i>Materials Characterization</i> , <b>1990</b> , 24, 135-158	3.9	27
160	The effect of prior deformation on the residual microstructure of explosively deformed stainless steels. <i>Materials Science and Engineering</i> , <b>1980</b> , 44, 97-113		27
159	Effect of shock-stress duration on the residual structure and hardness of nickel, chromel and inconel. <i>Materials Science and Engineering</i> , <b>1975</b> , 19, 115-122		27
158	Dynamic recrystallization in detonating tantalum shaped charges: A mechanism for extreme plastic deformation. <i>Materials Characterization</i> , <b>1994</b> , 33, 65-74	3.9	26
157	Yielding and grain-boundary ledges: Some comments on the Hall-Petch relation. <i>Applied Physics Letters</i> , <b>1974</b> , 24, 533-536	3.4	26
156	Microstructures of Niobium Components Fabricated by Electron Beam Melting. <i>Metallography, Microstructure, and Analysis</i> , <b>2013</b> , 2, 183-189	1.1	25
155	Shock wave induced changes in superconductivity in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> ∓. <i>Applied Physics Letters</i> , <b>1989</b> , 55, 1575-1577	3.4	24
154	Laser-shock-induced microstructural changes and a comparison with explosive-shock-induced phenomena in metals: Field-ion and electron microscopic studies. <i>Journal of Applied Physics</i> , <b>1978</b> , 49, 2427	2.5	24
153	Shock Deformation of Inconel 600 Alloy: Effect of Fine Coherent Precipitates on Explosive-Shock Hardening. <i>Journal of Applied Physics</i> , <b>1969</b> , 40, 3796-3802	2.5	24
152	Grain boundary contributions to deformation and solid-state flow in severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 409, 13-23	5.3	23
151	Variations in grain boundary ledge structure with thermo-mechanical treatment in high-purity aluminum. <i>Scripta Metallurgica</i> , <b>1976</b> , 10, 477-480		23
150	Dynamic recrystallization-induced flow phenomena in tungsten-tantalum (4%) [001] single-crystal rod ballistic penetrators. <i>Materials Characterization</i> , <b>2002</b> , 48, 407-421	3.9	22
149	Microstructures in Friction-Stir Welded Metals. <i>Journal of Materials Processings and Manufacturing Science</i> , <b>1998</b> , 7, 145-161		22
148	Microstructures and nanostructures for environmental carbon nanotubes and nanoparticulate soots. <i>International Journal of Environmental Research and Public Health</i> , <b>2008</b> , 5, 321-36	4.6	21
147	LEDs in ultra-high strain-rate deformation. <i>Physica Status Solidi A</i> , <b>1995</b> , 149, 253-274		21

146	Contributions of Light Microscopy to Contemporary Materials Characterization: The New Directional Solidification. <i>Metallography, Microstructure, and Analysis</i> , <b>2012</b> , 1, 45-58	1.1	20
145	Field Ion Microscopy of Graphite Fibers. <i>Journal of Applied Physics</i> , <b>1971</b> , 42, 3487-3493	2.5	20
144	Open-Cellular Co-Base and Ni-Base Superalloys Fabricated by Electron Beam Melting. <i>Materials</i> , <b>2011</b> , 4, 782-790	3.5	19
143	Deformation effects in shocked metals and alloys. <i>Materials Science and Technology</i> , <b>2006</b> , 22, 438-452	1.5	19
142	Microbands and microtwins associated with impact craters in copper and brass targets: the role of stacking fault energy. <i>Materials Characterization</i> , <b>2002</b> , 49, 359-366	3.9	19
141	Microstructures and properties of solid and reticulated mesh components of pure iron fabricated by electron beam melting. <i>Journal of Materials Research and Technology</i> , <b>2013</b> , 2, 376-385	5.5	18
140	Dynamic recrystallization in the shaped charge regime. <i>Scripta Metallurgica Et Materialia</i> , <b>1993</b> , 29, 567-572		18
139	Microstructural and mechanical property evaluation of black-chrome coated solar collectors III. <i>Solar Energy Materials and Solar Cells</i> , <b>1981</b> , 4, 333-358		18
138	Effects of the source of chloride ion and surface corrosion patterns on the kinetics of the copper-aluminum cementation system. <i>Hydrometallurgy</i> , <b>1978</b> , 3, 249-263	4	18
137	Contrast phenomena and the identification of grain boundary ledges. <i>Metallography</i> , <b>1978</b> , 11, 61-79		18
136	A continuously pumped ultra-high vacuum-sorption system for the preparation of highly ordered single-crystal metal foils. <i>British Journal of Applied Physics</i> , <b>1964</b> , 15, 1511-1515		18
135	Nanoparticulate materials in antiquity: The good, the bad and the ugly. <i>Materials Characterization</i> , <b>2009</b> , 60, 261-270	3.9	17
134	Atmospheric nanoparticles: Preliminary studies and potential respiratory health risks for emerging nanotechnologies. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 361-366		17
133	Residual microstructures in explosively formed tantalum penetrators. <i>Scripta Metallurgica Et Materialia</i> , <b>1994</b> , 31, 297-302		17
132	Energetics of Grain-Boundary Triple Junctions and Corner-Twinned Junctions: Transmission Electron Microscope Studies. <i>Journal of Applied Physics</i> , <b>1968</b> , 39, 5557-5566	2.5	17
131	Calibration and Use of an Electron Microscope for Precision Micromasurements in Thin Film Materials. <i>Physica Status Solidi (B): Basic Research</i> , <b>1967</b> , 19, 7-34	1.3	17
130	Microstructures for Two-Phase Gamma Titanium Aluminide Fabricated by Electron Beam Melting. <i>Metallography, Microstructure, and Analysis</i> , <b>2012</b> , 1, 14-27	1.1	16
129	Characterization of micro and nano two-phase regimes created by explosive shock-wave consolidation of powder mixtures. <i>Materials Characterization</i> , <b>2008</b> , 59, 1152-1160	3.9	16



128	Structure and hardness of explosively consolidated molybdenum. <i>Materials Science and Engineering</i> , <b>1983</b> , 57, 107-111		16
127	Explosive shock deformation of metallic glasses. <i>Materials Science and Engineering</i> , <b>1981</b> , 49, 57-64		16
126	The role of point defects in the thermal recovery of shock-loaded metals and alloys. <i>Scripta Metallurgica</i> , <b>1970</b> , 4, 183-187		16
125	Stability comparison of simulated double-walled carbon nanotube structures. <i>Carbon</i> , <b>2008</b> , 46, 2083-2095.4		15
124	Solid-state flow, mechanical alloying, and melt-related phenomena for [0 0 1] single-crystal W ballistic rod penetrators interacting with steel targets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 428, 301-313	5.3	15
123	Microstructural characterization of TiB <sub>2</sub> armor targets. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 1661-1666		15
122	Carbon nanotubes and other fullerenes produced from tire powder injected into an electric arc. <i>Materials Characterization</i> , <b>2005</b> , 55, 371-377	3.9	15
121	Torque-related lamellar carbide growth associated with annealing twins in 304 stainless steel. <i>Acta Metallurgica Et Materialia</i> , <b>1995</b> , 43, 461-469		15
120	Microstructural and mechanical property evaluation of black-chrome coated solar collectors. <i>Solar Energy Materials and Solar Cells</i> , <b>1979</b> , 2, 177-199		15
119	The influence of grain boundary ledge density on the flow stress in nickel. <i>Materials Science and Engineering</i> , <b>1978</b> , 33, 69-80		15
118	Thermal recovery of explosive shock-loaded Ni, TD-Ni, Chromel-A, Inconel 600 and TD-NiCr. <i>Acta Metallurgica</i> , <b>1970</b> , 18, 1047-1052		15
117	Measurement of absolute interfacial free energies in a NiCr alloy. <i>Surface Science</i> , <b>1971</b> , 26, 184-196	1.8	15
116	Effects of substrate temperature, pressure, and high evaporation rates on nucleation, epitaxy, and structure of palladium thin films. <i>Thin Solid Films</i> , <b>1971</b> , 7, 101-115	2.2	14
115	A field-ion microscope study of vapour-deposited platinum. <i>Thin Solid Films</i> , <b>1972</b> , 9, 241-256	2.2	14
114	Deformation-induced microstructure and martensite effects on transgranular carbide precipitation in type 304 stainless steels. <i>Acta Metallurgica Et Materialia</i> , <b>1993</b> , 41, 2589-2600		13
113	Observations of solution transport, permeability, and leaching reactions in large, controlled, copper-bearing waste bodies. <i>Hydrometallurgy</i> , <b>1979</b> , 5, 67-93	4	13
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