

Lawrence Murr

List of Publications by Year in descending order

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251
papers

14,685
citations

29994

54
h-index

20900

115
g-index

253
all docs

253
docs citations

253
times ranked

10310
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Metal Fabrication by Additive Manufacturing Using Laser and Electron Beam Melting Technologies. <i>Journal of Materials Science and Technology</i> , 2012, 28, 1-14. | 5.6 | 1,235 |
| 2 | Microstructures and mechanical behavior of Inconel 718 fabricated by selective laser melting. <i>Acta Materialia</i> , 2012, 60, 2229-2239. | 3.8 | 873 |
| 3 | 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> , 2009, 2, 20-32. | 1.5 | 815 |
| 4 | Microstructures and mechanical properties of electron beam-rapid manufactured Ti-6Al-4V biomedical prototypes compared to wrought Ti-6Al-4V. <i>Materials Characterization</i> , 2009, 60, 96-105. | 1.9 | 483 |
| 5 | Flow patterns during friction stir welding. <i>Materials Characterization</i> , 2002, 49, 95-101. | 1.9 | 453 |
| 6 | Characterization of titanium aluminide alloy components fabricated by additive manufacturing using electron beam melting. <i>Acta Materialia</i> , 2010, 58, 1887-1894. | 3.8 | 412 |
| 7 | Fabrication of Metal and Alloy Components by Additive Manufacturing: Examples of 3D Materials Science. <i>Journal of Materials Research and Technology</i> , 2012, 1, 42-54. | 2.6 | 365 |
| 8 | Microstructures and Properties of 17-4 PH Stainless Steel Fabricated by Selective Laser Melting. <i>Journal of Materials Research and Technology</i> , 2012, 1, 167-177. | 2.6 | 317 |
| 9 | Influence of cell shape on mechanical properties of Ti-6Al-4V meshes fabricated by electron beam melting method. <i>Acta Biomaterialia</i> , 2014, 10, 4537-4547. | 4.1 | 281 |
| 10 | Cytotoxic effects of aggregated nanomaterials. <i>Acta Biomaterialia</i> , 2007, 3, 351-358. | 4.1 | 278 |
| 11 | Flow visualization and residual microstructures associated with the friction-stir welding of 2024 aluminum to 6061 aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999, 271, 213-223. | 2.6 | 275 |
| 12 | 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> , 2012, 16, 153-162. | 1.5 | 269 |
| 13 | Heat Input and Temperature Distribution in Friction Stir Welding. <i>Journal of Materials Processings and Manufacturing Science</i> , 1998, 7, 163-172. | 0.1 | 250 |
| 14 | Compression fatigue behavior of Ti-6Al-4V mesh arrays fabricated by electron beam melting. <i>Acta Materialia</i> , 2012, 60, 793-802. | 3.8 | 244 |
| 15 | Recent progress in magnesium-lithium alloys. <i>International Materials Reviews</i> , 2015, 60, 65-100. | 9.4 | 243 |
| 16 | Frontiers of 3D Printing/Additive Manufacturing: from Human Organs to Aircraft Fabrication. <i>Journal of Materials Science and Technology</i> , 2016, 32, 987-995. | 5.6 | 234 |
| 17 | Characterization of Ti-6Al-4V open cellular foams fabricated by additive manufacturing using electron beam melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1861-1868. | 2.6 | 217 |
| 18 | A model for the formation of annealing twins in F.C.C. metals and alloys. <i>Acta Metallurgica</i> , 1978, 26, 951-962. | 2.1 | 214 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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> , 2011, 4, 1396-1411. | 1.5 | 213 |
| 20 | Comparative in vitro cytotoxicity assessment of some manufacturednanoparticulate materials characterized by transmissionelectron microscopy. <i>Journal of Nanoparticle Research</i> , 2005, 7, 145-169. | 0.8 | 208 |
| 21 | Microstructures in friction-stir welded dissimilar magnesium alloys and magnesium alloys to 6061-T6 aluminum alloy. <i>Materials Characterization</i> , 2004, 52, 49-64. | 1.9 | 206 |
| 22 | A Review of FSW Research on Dissimilar Metal and Alloy Systems. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 1071-1089. | 1.2 | 195 |
| 23 | Evaluation of Titanium Alloys Fabricated Using Rapid Prototyping Technologiesâ€”Electron Beam Melting and Laser Beam Melting. <i>Materials</i> , 2011, 4, 1776-1792. | 1.3 | 185 |
| 24 | Novel precipitateâ€”microstructural architecture developed in the fabrication of solid copper components by additive manufacturing using electron beam melting. <i>Acta Materialia</i> , 2011, 59, 4088-4099. | 3.8 | 182 |
| 25 | 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> , 1983, 31, 267-274. | 2.1 | 163 |
| 26 | Metallurgy of additive manufacturing: Examples from electron beam melting. <i>Additive Manufacturing</i> , 2015, 5, 40-53. | 1.7 | 163 |
| 27 | 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> , 2004, 52, 65-75. | 1.9 | 148 |
| 28 | Fundamental studies of the contribution of galvanic interaction to acid-bacterial leaching of mixed metal sulfides. <i>Hydrometallurgy</i> , 1983, 9, 235-256. | 1.8 | 146 |
| 29 | Friction-stir welding of magnesium alloy AZ31B. <i>Journal of Materials Science Letters</i> , 2002, 21, 917-920. | 0.5 | 145 |
| 30 | Self-optimization in tool wear for friction-stir welding of Al 6061+20% Al ₂ O ₃ MMC. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 349, 156-165. | 2.6 | 145 |
| 31 | Open-cellular copper structures fabricated by additive manufacturing using electron beam melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5379-5386. | 2.6 | 130 |
| 32 | Microstructure evolution associated with adiabatic shear bands and shear band failure in ballistic plug formation in Tiâ€”6Alâ€”4V targets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 516, 205-216. | 2.6 | 122 |
| 33 | 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> , 1978, 26, 847-857. | 2.1 | 113 |
| 34 | Galvanic interaction between chalcopyrite and pyrite during bacterial leaching of low-grade waste. <i>Hydrometallurgy</i> , 1978, 3, 309-326. | 1.8 | 110 |
| 35 | Microstructures of Rene 142 nickel-based superalloy fabricated by electron beam melting. <i>Acta Materialia</i> , 2013, 61, 4289-4296. | 3.8 | 106 |
| 36 | A TEM study of soot, carbon nanotubes, and related fullerene nanopolyhedra in common fuel-gas combustion sources. <i>Materials Characterization</i> , 2005, 55, 50-65. | 1.9 | 90 |

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|----|---|------|-----------|
| 37 | Biocompatibility and mechanical behaviour of three-dimensional scaffolds for biomedical devices: processâ€“structureâ€“property paradigm. <i>International Materials Reviews</i> , 2016, 61, 20-45. | 9.4 | 90 |
| 38 | 3D metal droplet printing development and advanced materials additive manufacturing. <i>Journal of Materials Research and Technology</i> , 2017, 6, 77-89. | 2.6 | 85 |
| 39 | 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> , 1995, 35, 99-112. | 1.9 | 81 |
| 40 | Plant Growth Response in a Simulated Electric Field-environment. <i>Nature</i> , 1963, 200, 490-491. | 13.7 | 74 |
| 41 | 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> , 1972, 6, 203-208. | 1.2 | 74 |
| 42 | Kinetic study of sulfide leaching by galvanic interaction between chalcopyrite, pyrite, and sphalerite in the presence of <i>T. ferrooxidans</i> (30Å°C) and a thermophilic microorganism (55Å°C). <i>Biotechnology and Bioengineering</i> , 1982, 24, 919-940. | 1.7 | 74 |
| 43 | Direct observations of selective attachment of bacteria on low-grade sulfide ores and other mineral surfaces. <i>Hydrometallurgy</i> , 1976, 2, 11-24. | 1.8 | 68 |
| 44 | Twin boundary energetics in pure aluminium. <i>Acta Metallurgica</i> , 1973, 21, 791-797. | 2.1 | 65 |
| 45 | Chemistry and nanoparticulate compositions of a 10,000 year-old ice core melt water. <i>Water Research</i> , 2004, 38, 4282-4296. | 5.3 | 65 |
| 46 | Multi-material metallic structure fabrication using electron beam melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 71, 33-45. | 1.5 | 64 |
| 47 | Measurement of interfacial free energies and associated temperature coefficients in 304 stainless steel. <i>Acta Metallurgica</i> , 1973, 21, 595-604. | 2.1 | 63 |
| 48 | Effect of shock pressure, pulse duration, and grain size on shock-deformation twinning in molybdenum. <i>Materials Science and Engineering</i> , 1978, 35, 273-285. | 0.1 | 63 |
| 49 | Friction-stir welding of aluminum alloy 2024 to silver. <i>Journal of Materials Science Letters</i> , 2000, 19, 1047-1051. | 0.5 | 62 |
| 50 | Microstructures and Hardness Properties for Î²-Phase Tiâ€“24Nbâ€“4Zrâ€“7.9Sn Alloy Fabricated by Electron Beam Melting. <i>Journal of Materials Science and Technology</i> , 2013, 29, 1011-1017. | 5.6 | 57 |
| 51 | Interplay between selfâ€“assembled structure of bone morphogenetic proteinâ€“2 (<scp>BMP</scp>â€“2) and osteoblast functions in threeâ€“dimensional titanium alloy scaffolds: <scp>S</scp>-stimulation of osteogenic activity. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 517-532. | 2.1 | 57 |
| 52 | Interplay between cellular activity and threeâ€“dimensional scaffoldâ€“cell constructs with different foam structure processed by electron beam melting. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1677-1692. | 2.1 | 56 |
| 53 | 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> , 1975, 20, 35-46. | 0.1 | 55 |
| 54 | 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> , 1979, 39, 81-93. | 0.1 | 55 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Work hardening and the pressure dependence of dislocation density and arrangements in shock loaded nickel and copper. <i>Scripta Metallurgica</i> , 1978, 12, 201-206. | 1.2 | 52 |
| 56 | 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> , 1981, 12, 255-267. | 0.5 | 52 |
| 57 | Evaluation of mechanical and corrosion biocompatibility of TiTa alloys. <i>Journal of Materials Science: Materials in Medicine</i> , 2001, 12, 283-292. | 1.7 | 52 |
| 58 | Relationship of grain size and deformation mechanism to the fracture behavior in high strength high ductility nanostructured austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 626, 41-50. | 2.6 | 51 |
| 59 | Microstructural and Process Characterization of Conductive Traces Printed from Ag Particulate Inks. <i>Materials</i> , 2011, 4, 963-979. | 1.3 | 50 |
| 60 | Defect microstructure and mechanical properties in shock-hardened metals. <i>Experimental Mechanics</i> , 1969, 9, 145-155. | 1.1 | 49 |
| 61 | A TEM analysis of nanoparticulates in a Polar ice core. <i>Materials Characterization</i> , 2004, 52, 15-25. | 1.9 | 48 |
| 62 | Comparison of tungsten heavy-alloy rod penetration into ductile and hard metal targets: microstructural analysis and computer simulations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 325, 131-143. | 2.6 | 46 |
| 63 | Carbon Nanotubes and Other Fullerene Nanocrystals in Domestic Propane and Natural Gas Combustion Streams. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 716-718. | 0.9 | 46 |
| 64 | Direct observations of vacancies and vacancy-type defects in molybdenum following uniaxial shock-wave compression. <i>Acta Metallurgica</i> , 1976, 24, 261-270. | 2.1 | 45 |
| 65 | Influence of deposit morphology on the kinetics of copper cementation on pure iron. <i>Hydrometallurgy</i> , 1979, 4, 57-82. | 1.8 | 45 |
| 66 | Biological effects of nanoparticulate materials. <i>Materials Science and Engineering C</i> , 2006, 26, 1421-1427. | 3.8 | 45 |
| 67 | Study of Erbium Thin Film Oxidation in the Electron Microscope. <i>Physica Status Solidi (B): Basic Research</i> , 1967, 24, 135-148. | 0.7 | 44 |
| 68 | Effect of environmental parameters on the efficiency of biodegradation of basalt rock by fungi. <i>Biotechnology and Bioengineering</i> , 1979, 21, 875-885. | 1.7 | 43 |
| 69 | Interactive effects of shock loading parameters on the substructure and mechanical properties of nickel and stainless steel. <i>Materials Science and Engineering</i> , 1979, 37, 249-269. | 0.1 | 43 |
| 70 | Strain-induced dislocation emission from grain boundaries in stainless steel. <i>Materials Science and Engineering</i> , 1981, 51, 71-79. | 0.1 | 43 |
| 71 | 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> , 2002, 50, 121-131. | 3.8 | 43 |
| 72 | Carbon nanotubes in wood soot. <i>Atmospheric Science Letters</i> , 2006, 7, 93-95. | 0.8 | 43 |

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|----|---|-----|-----------|
| 73 | 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> , 2006, 3, 48-66. | 1.2 | 42 |
| 74 | Experimental observations and computer simulations for metallic projectile fragmentation and impact crater development in thick metal targets. <i>International Journal of Impact Engineering</i> , 2006, 32, 1981-1999. | 2.4 | 41 |
| 75 | Evidence of low-temperature superparamagnetism in Mn ₃ O ₄ nanoparticle ensembles. <i>Nanotechnology</i> , 2010, 21, 365703. | 1.3 | 41 |
| 76 | The effects of kinetic variables on the structure of copper deposits cemented on pure aluminum discs: A scanning electron microscopic study. <i>Hydrometallurgy</i> , 1978, 3, 163-180. | 1.8 | 40 |
| 77 | Acid-bacterial and ferric sulfate leaching of pyrite single crystals. <i>Biotechnology and Bioengineering</i> , 1982, 24, 83-96. | 1.7 | 40 |
| 78 | End cap nucleation of carbon nanotubes. <i>Carbon</i> , 2006, 44, 447-455. | 5.4 | 40 |
| 79 | 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> , 2008, 5, 12-25. | 1.2 | 39 |
| 80 | Optimization of the shear strengths of ultrasonically consolidated Ti/Al 3003 dual-material structures. <i>Journal of Materials Processing Technology</i> , 2011, 211, 988-995. | 3.1 | 39 |
| 81 | Large strain plastic deformation of commercially pure nickel. <i>Metal Science</i> , 1983, 17, 198-208. | 0.7 | 38 |
| 82 | Characterization of nanostructure phenomena in airborne particulate aggregates and their potential for respiratory health effects. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 237-247. | 1.7 | 38 |
| 83 | Characterization and comparison of microstructures in the shaped-charge regime: copper and tantalum. <i>Materials Characterization</i> , 1993, 30, 201-216. | 1.9 | 37 |
| 84 | Explosive consolidation of an amorphous iron-base powder. <i>Scripta Metallurgica</i> , 1983, 17, 1353-1357. | 1.2 | 35 |
| 85 | In vivo corrosion, tumor outcome, and microarray gene expression for two types of muscle-implanted tungsten alloys. <i>Toxicology and Applied Pharmacology</i> , 2012, 265, 128-138. | 1.3 | 35 |
| 86 | 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> , 1985, 33, 677-684. | 2.1 | 34 |
| 87 | Dynamic recrystallization in detonating tantalum shaped charges: A mechanism for extreme plastic deformation. <i>Materials Characterization</i> , 1994, 33, 65-74. | 1.9 | 34 |
| 88 | 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> , 2014, 4, 755-771. | 0.0 | 34 |
| 89 | Effects of deformation (strain) and heat treatment on grain boundary sensitization and precipitation in austenitic stainless steels. <i>Materials Characterization</i> , 1990, 24, 135-158. | 1.9 | 33 |
| 90 | Novel deformation processes and microstructures involving ballistic penetrator formation and hypervelocity impact and penetration phenomena. <i>Materials Characterization</i> , 1996, 37, 245-276. | 1.9 | 33 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Effect of prestrain and stacking-fault energy on the application of the Hall-Petch relation in fcc metals and alloys. <i>Metallography</i> , 1980, 13, 203-224. | 0.4 | 32 |
| 92 | Microbands and shear-related microstructural phenomena associated with impact craters in 6061-T6 aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996, 216, 69-79. | 2.6 | 32 |
| 93 | Transmission electron microscope study of crystal defects in natural fluorite. <i>Physica Status Solidi A</i> , 1974, 22, 239-251. | 1.7 | 30 |
| 94 | The effect of prior deformation on the residual microstructure of explosively deformed stainless steels. <i>Materials Science and Engineering</i> , 1980, 44, 97-113. | 0.1 | 30 |
| 95 | Microstructures of Niobium Components Fabricated by Electron Beam Melting. <i>Metallography, Microstructure, and Analysis</i> , 2013, 2, 183-189. | 0.5 | 29 |
| 96 | Measurement of interfacial energy of adhesion by scanning electron microscopy. <i>Materials Science and Engineering</i> , 1973, 12, 277-283. | 0.1 | 28 |
| 97 | Effect of shock-stress duration on the residual structure and hardness of nickel, chromel and inconel. <i>Materials Science and Engineering</i> , 1975, 19, 115-122. | 0.1 | 28 |
| 98 | Microstructures in Friction-Stir Welded Metals. <i>Journal of Materials Processings and Manufacturing Science</i> , 1998, 7, 145-161. | 0.1 | 27 |
| 99 | Yielding and grain-boundary ledges: Some comments on the Hall-Petch relation. <i>Applied Physics Letters</i> , 1974, 24, 533-536. | 1.5 | 26 |
| 100 | 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> , 1978, 49, 2427. | 1.1 | 26 |
| 101 | Shock Deformation of Inconel 600 Alloy: Effect of Fine Coherent Precipitates on Explosive Shock Hardening. <i>Journal of Applied Physics</i> , 1969, 40, 3796-3802. | 1.1 | 25 |
| 102 | Shock wave induced changes in superconductivity in YBa ₂ Cu ₃ O _{7-δ} . <i>Applied Physics Letters</i> , 1989, 55, 1575-1577. | 1.5 | 25 |
| 103 | Dynamic recrystallization-induced flow phenomena in tungsten-tantalum (4%) [001] single-crystal rod ballistic penetrators. <i>Materials Characterization</i> , 2002, 48, 407-421. | 1.9 | 25 |
| 104 | Grain boundary contributions to deformation and solid-state flow in severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 409, 13-23. | 2.6 | 25 |
| 105 | Microbands and microtwins associated with impact craters in copper and brass targets: the role of stacking fault energy. <i>Materials Characterization</i> , 2002, 49, 359-366. | 1.9 | 24 |
| 106 | Variations in grain boundary ledge structure with thermo-mechanical treatment in high-purity aluminum. <i>Scripta Metallurgica</i> , 1976, 10, 477-480. | 1.2 | 23 |
| 107 | Microstructures for Two-Phase Gamma Titanium Aluminide Fabricated by Electron Beam Melting. <i>Metallography, Microstructure, and Analysis</i> , 2012, 1, 14-27. | 0.5 | 23 |
| 108 | Energetics of Grain-Boundary Triple Junctions and Corner-Twinned Junctions: Transmission Electron Microscope Studies. <i>Journal of Applied Physics</i> , 1968, 39, 5557-5566. | 1.1 | 22 |

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|-----|---|-----|-----------|
| 109 | Title is missing!. Journal of Materials Science Letters, 2002, 21, 361-366. | 0.5 | 22 |
| 110 | Contributions of Light Microscopy to Contemporary Materials Characterization: The New Directional Solidification. Metallography, Microstructure, and Analysis, 2012, 1, 45-58. | 0.5 | 22 |
| 111 | Field Ion Microscopy of Graphite Fibers. Journal of Applied Physics, 1971, 42, 3487-3493. | 1.1 | 21 |
| 112 | Dynamic recrystallization in the shaped charge regime. Scripta Metallurgica Et Materialia, 1993, 29, 567-572. | 1.0 | 21 |
| 113 | Microstructures and Nanostructures for Environmental Carbon Nanotubes and Nanoparticulate Soots. International Journal of Environmental Research and Public Health, 2008, 5, 321-336. | 1.2 | 21 |
| 114 | Nanoparticulate materials in antiquity: The good, the bad and the ugly. Materials Characterization, 2009, 60, 261-270. | 1.9 | 21 |
| 115 | Effects of the source of chloride ion and surface corrosion patterns on the kinetics of the copper-aluminum cementation system. Hydrometallurgy, 1978, 3, 249-263. | 1.8 | 20 |
| 116 | Residual microstructures in explosively formed tantalum penetrators. Scripta Metallurgica Et Materialia, 1994, 31, 297-302. | 1.0 | 20 |
| 117 | Deformation effects in shocked metals and alloys. Materials Science and Technology, 2006, 22, 438-452. | 0.8 | 20 |
| 118 | Open-Cellular Co-Base and Ni-Base Superalloys Fabricated by Electron Beam Melting. Materials, 2011, 4, 782-790. | 1.3 | 20 |
| 119 | Contrast phenomena and the identification of grain boundary ledges. Metallography, 1978, 11, 61-79. | 0.4 | 19 |
| 120 | Characterization of micro and nano two-phase regimes created by explosive shock-wave consolidation of powder mixtures. Materials Characterization, 2008, 59, 1152-1160. | 1.9 | 19 |
| 121 | Microstructures and properties of solid and reticulated mesh components of pure iron fabricated by electron beam melting. Journal of Materials Research and Technology, 2013, 2, 376-385. | 2.6 | 19 |
| 122 | A continuously pumped ultra-high vacuum-sorption system for the preparation of highly ordered single-crystal metal foils. British Journal of Applied Physics, 1964, 15, 1511-1515. | 0.7 | 18 |
| 123 | Microstructural and mechanical property evaluation of black-chrome coated solar collectors " II. Solar Energy Materials and Solar Cells, 1981, 4, 333-358. | 0.4 | 18 |
| 124 | Calibration and Use of an Electron Microscope for Precision Micrommeasurements in Thin Film Materials. Physica Status Solidi (B): Basic Research, 1967, 19, 7-34. | 0.7 | 17 |
| 125 | Structure and hardness of explosively consolidated molybdenum. Materials Science and Engineering, 1983, 57, 107-111. | 0.1 | 17 |
| 126 | Torque-related lamellar carbide growth associated with annealing twins in 304 stainless steel. Acta Metallurgica Et Materialia, 1995, 43, 461-469. | 1.9 | 17 |

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|-----|--|-----|-----------|
| 127 | Carbon nanotubes and other fullerenes produced from tire powder injected into an electric arc. <i>Materials Characterization</i> , 2005, 55, 371-377. | 1.9 | 17 |
| 128 | The role of point defects in the thermal recovery of shock-loaded metals and alloys. <i>Scripta Metallurgica</i> , 1970, 4, 183-187. | 1.2 | 16 |
| 129 | The influence of grain boundary ledge density on the flow stress in nickel. <i>Materials Science and Engineering</i> , 1978, 33, 69-80. | 0.1 | 16 |
| 130 | Microstructural and mechanical property evaluation of black-chrome coated solar collectors. <i>Solar Energy Materials and Solar Cells</i> , 1979, 2, 177-199. | 0.4 | 16 |
| 131 | Explosive shock deformation of metallic glasses. <i>Materials Science and Engineering</i> , 1981, 49, 57-64. | 0.1 | 16 |
| 132 | CHARACTERIZATION AND COMPARISON OF SPECIATED ATMOSPHERIC CARBONACEOUS PARTICULATES AND THEIR POLYCYCLIC AROMATIC HYDROCARBON CONTENTS IN THE CONTEXT OF THE PASO DEL NORTE AIRSHED ALONG THE U.S.-MEXICO BORDER. <i>Polycyclic Aromatic Compounds</i> , 2007, 27, 361-400. | 1.4 | 16 |
| 133 | Thermal recovery of explosive shock-loaded Ni, TD-Ni, Chromel-A, Inconel 600 and TD-NiCr. <i>Acta Metallurgica</i> , 1970, 18, 1047-1052. | 2.1 | 15 |
| 134 | Relative interfacial free energy measurements in Cu and Cu-Al alloys. <i>Physica Status Solidi A</i> , 1970, 3, 447-455. | 1.7 | 15 |
| 135 | Measurement of absolute interfacial free energies in a NiCr alloy. <i>Surface Science</i> , 1971, 26, 184-196. | 0.8 | 15 |
| 136 | Effects of substrate temperature, pressure, and high evaporation rates on nucleation, epitaxy, and structure of palladium thin films. <i>Thin Solid Films</i> , 1971, 7, 101-115. | 0.8 | 15 |
| 137 | Microstructural characterization of TiB ₂ armor targets. <i>Journal of Materials Science Letters</i> , 2002, 21, 1661-1666. | 0.5 | 15 |
| 138 | Solid-state flow, mechanical alloying, and melt-related phenomena for [001] single-crystal W ballistic rod penetrators interacting with steel targets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 428, 301-313. | 2.6 | 15 |
| 139 | Stability comparison of simulated double-walled carbon nanotube structures. <i>Carbon</i> , 2008, 46, 2083-2095. | 5.4 | 15 |
| 140 | A field-ion microscope study of vapour-deposited platinum. <i>Thin Solid Films</i> , 1972, 9, 241-256. | 0.8 | 14 |
| 141 | Vacancies and vacancy clusters in shock-loaded molybdenum: Direct observations by transmission electron and field-ion microscopy. <i>Applied Physics Letters</i> , 1976, 28, 432-434. | 1.5 | 14 |
| 142 | Observations of solution transport, permeability, and leaching reactions in large, controlled, copper-bearing waste bodies. <i>Hydrometallurgy</i> , 1979, 5, 67-93. | 1.8 | 14 |
| 143 | Deformation-induced microstructure and martensite effects on transgranular carbide precipitation in type 304 stainless steels. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 2589-2600. | 1.9 | 14 |
| 144 | Scanning electron microscope study of laser-damaged beryllium thin films. <i>Journal of Applied Physics</i> , 1973, 44, 1722-1726. | 1.1 | 13 |

| # | ARTICLE | IF | CITATIONS |
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