Julie M Schoenung

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

210
papers7,249
citations46
h-index78
g-index217
ext. papers8,804
ext. citations5.5
avg, IF6.31
L-index

| # | Paper | IF | Citations |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 210 | Mechanical behavior and strengthening mechanisms in ultrafine grain precipitation-strengthened aluminum alloy. <i>Acta Materialia</i> , 2014 , 62, 141-155 | 8.4 | 658 |
| 209 | Electronic waste recycling: A review of U.S. infrastructure and technology options. <i>Resources, Conservation and Recycling,</i> 2005 , 45, 368-400 | 11.9 | 347 |
| 208 | On the limitations of Volumetric Energy Density as a design parameter for Selective Laser Melting. <i>Materials and Design</i> , 2017 , 113, 331-340 | 8.1 | 290 |
| 207 | Cold spray deposition of nanocrystalline aluminum alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 657-666 | 2.3 | 175 |
| 206 | Science and regulation. The electronics revolution: from e-wonderland to e-wasteland. <i>Science</i> , 2009 , 326, 670-1 | 33.3 | 168 |
| 205 | In-situ characterization of laser-powder interaction and cooling rates through high-speed imaging of powder bed fusion additive manufacturing. <i>Materials and Design</i> , 2017 , 135, 385-396 | 8.1 | 167 |
| 204 | A tri-modal aluminum based composite with super-high strength. <i>Scripta Materialia</i> , 2005 , 53, 481-486 | 5.6 | 161 |
| 203 | Mechanical behavior of ultrafine-grained Al composites reinforced with B4C nanoparticles. <i>Scripta Materialia</i> , 2011 , 65, 652-655 | 5.6 | 152 |
| 202 | Nanostructured coatings. <i>Materials Science & Discourse ing A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 336, 274-319 | 5.3 | 147 |
| 201 | Oxidation behavior of HVOF sprayed nanocrystalline NiCrAlY powder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 338, 33-43 | 5.3 | 144 |
| 200 | Toughening of aluminum matrix nanocomposites via spatial arrays of boron carbide spherical nanoparticles. <i>Acta Materialia</i> , 2016 , 103, 128-140 | 8.4 | 136 |
| 199 | Coupling of dislocations and precipitates: Impact on the mechanical behavior of ultrafine grained Alaning alloys. <i>Acta Materialia</i> , 2016 , 103, 153-164 | 8.4 | 130 |
| 198 | Human health and ecological toxicity potentials due to heavy metal content in waste electronic devices with flat panel displays. <i>Journal of Hazardous Materials</i> , 2010 , 177, 251-9 | 12.8 | 125 |
| 197 | Dry sliding friction and wear properties of B4C particulate-reinforced Al-5083 matrix composites. <i>Wear</i> , 2008 , 264, 555-561 | 3.5 | 120 |
| 196 | Potential environmental impacts of light-emitting diodes (LEDs): metallic resources, toxicity, and hazardous waste classification. <i>Environmental Science & Emp; Technology</i> , 2011 , 45, 320-7 | 10.3 | 100 |
| 195 | Strengthening mechanisms in directed energy deposited austenitic stainless steel. <i>Acta Materialia</i> , 2019 , 164, 728-740 | 8.4 | 100 |
| 194 | A review on nanostructured WCto coatings. Surface and Coatings Technology, 2002, 157, 72-79 | 4.4 | 94 |

(2006-2013)

| 193 | Potential environmental impacts from the metals in incandescent, compact fluorescent lamp (CFL), and light-emitting diode (LED) bulbs. <i>Environmental Science & Environmental & Enviro</i> | 10.3 | 89 |
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| 192 | Microstructure and tensile properties of bulk nanostructured Al-5083/SiCp composites prepared by cryomilling. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 407, 306-314 | 5.3 | 88 |
| 191 | Influence of length-scales on spatial distribution and interfacial characteristics of B4C in a nanostructured Al matrix. <i>Acta Materialia</i> , 2015 , 89, 327-343 | 8.4 | 80 |
| 190 | Yield symmetry and reduced strength differential in Mg-2.5Y alloy. <i>Acta Materialia</i> , 2016 , 120, 75-85 | 8.4 | 77 |
| 189 | Bulk nanocrystalline aluminum 5083 alloy fabricated by a novel technique: Cryomilling and spark plasma sintering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 2569-2579 | 2.3 | 77 |
| 188 | Influence of particle size and spatial distribution of B4C reinforcement on the microstructure and mechanical behavior of precipitation strengthened Al alloy matrix composites. <i>Materials Science & Materials Properties, Microstructure and Processing</i> , 2016 , 675, 421-430 | 5.3 | 72 |
| 187 | Economic analysis of electronic waste recycling: modeling the cost and revenue of a materials recovery facility in California. <i>Environmental Science & Environmental Science </i> | 10.3 | 72 |
| 186 | Aluminum with dispersed nanoparticles by laser additive manufacturing. <i>Nature Communications</i> , 2019 , 10, 4124 | 17.4 | 70 |
| 185 | 3D Microstructure-based finite element modeling of deformation and fracture of SiCp/Al composites. <i>Composites Science and Technology</i> , 2016 , 123, 1-9 | 8.6 | 69 |
| 184 | Isothermal oxidation behavior of cryomilled NiCrAlY bond coat: Homogeneity and growth rate of TGO. <i>Surface and Coatings Technology</i> , 2011 , 205, 5178-5185 | 4.4 | 69 |
| 183 | Evolution of Young modulus of air plasma sprayed yttria-stabilized zirconia in thermally cycled thermal barrier coatings. <i>Scripta Materialia</i> , 2006 , 54, 1587-1592 | 5.6 | 67 |
| 182 | Fabrication of WCITo cermets by laser engineered net shaping. <i>Materials Science & Discourse amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 261-266 | 5.3 | 61 |
| 181 | Synthesis and oxidation behavior of nanocrystalline MCrAlY bond coatings. <i>Journal of Thermal Spray Technology</i> , 2005 , 14, 23-30 | 2.5 | 60 |
| 180 | In situ oxide dispersion strengthened tungsten alloys with high compressive strength and high strain-to-failure. <i>Acta Materialia</i> , 2017 , 122, 19-31 | 8.4 | 58 |
| 179 | Effects of surface oxidation during HVOF processing on the primary stage oxidation of a CoNiCrAlY coating. <i>Surface and Coatings Technology</i> , 2004 , 185, 228-233 | 4.4 | 58 |
| 178 | Tensile behavior and strengthening mechanisms in a submicron B4C-reinforced Al trimodal composite. <i>Materials Science & Discounting A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 616, 35-43 | 5.3 | 57 |
| 177 | Stability of cellular microstructure in laser powder bed fusion of 316L stainless steel. <i>Materials Science & Microstructure and Processing</i> , 2019 , 739, 109-117 | 5.3 | 57 |
| 176 | Estimation of future outflows and infrastructure needed to recycle personal computer systems in California. <i>Journal of Hazardous Materials</i> , 2006 , 137, 1165-74 | 12.8 | 55 |

| 175 | Toxicity potentials from waste cellular phones, and a waste management policy integrating consumer, corporate, and government responsibilities. <i>Waste Management</i> , 2010 , 30, 1653-60 | 8.6 | 54 |
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| 174 | Mechanisms of microstructure evolution during cryomilling in the presence of hard particles. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 356, 23-31 | 5.3 | 53 |
| 173 | Reinforcement size effects on the abrasive wear of boron carbide reinforced aluminum composites. <i>Wear</i> , 2017 , 390-391, 228-235 | 3.5 | 52 |
| 172 | Synthesis and mechanical behavior of nanostructured Al 5083/n-TiB 2 metal matrix composites. Materials Science & Science & Structural Materials: Properties, Microstructure and Processing, 2016, 656, 241-248 | 5.3 | 50 |
| 171 | Grain size dependence of fracture toughness for fine grained alumina. <i>Scripta Materialia</i> , 2011 , 65, 143- | 1546 | 50 |
| 170 | Sintering behavior of spark plasma sintered alumina with graphene nanoplatelet reinforcement. <i>Ceramics International</i> , 2015 , 41, 5926-5936 | 5.1 | 49 |
| 169 | Directed energy deposition (DED) additive manufacturing: Physical characteristics, defects, challenges and applications. <i>Materials Today</i> , 2021 , 49, 271-271 | 21.8 | 49 |
| 168 | Influence of interfaces on the mechanical behavior of SiC particulate-reinforced AlInMgIu composites. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 644, 79-84 | 5.3 | 48 |
| 167 | On the thermal stability of ultrafine-grained Al stabilized by in-situ amorphous Al2O3 network. Materials Science & Science & Structural Materials: Properties, Microstructure and Processing, 2015, 648, 61-71 | 5.3 | 48 |
| 166 | Waste management of printed wiring boards: a life cycle assessment of the metals recycling chain from liberation through refining. <i>Environmental Science & Environmental Scie</i> | 10.3 | 48 |
| 165 | Metal/ceramic interface structures and segregation behavior in aluminum-based composites. <i>Acta Materialia</i> , 2015 , 95, 254-263 | 8.4 | 47 |
| 164 | Characterization of oxide scales formed on HVOF NiCrAlY coatings with various oxygen contents introduced during thermal spraying. <i>Scripta Materialia</i> , 2004 , 51, 25-29 | 5.6 | 44 |
| 163 | Formation of coarse-grained inter-particle regions during hot isostatic pressing of nanocrystalline powder. <i>Scripta Materialia</i> , 2005 , 53, 619-624 | 5.6 | 44 |
| 162 | Effects of variations in coating materials and process conditions on the thermal cycle properties of NiCrAlY/YSZ thermal barrier coatings. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2006 , 425, 94-106 | 5.3 | 43 |
| 161 | Process-Structure-Property Relationships for 316L Stainless Steel Fabricated by Additive Manufacturing and Its Implication for Component Engineering. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 610-626 | 2.5 | 40 |
| 160 | Reuse of powder feedstock for directed energy deposition. <i>Powder Technology</i> , 2018 , 338, 819-829 | 5.2 | 40 |
| 159 | Field assisted sintering of graphene reinforced zirconia ceramics. Ceramics International, 2015, 41, 6113 | - 6 .1 <u>1</u> 16 | 40 |
| 158 | Investigation into the microstructure evolution caused by nanoscratch-induced room temperature deformation in M-plane sapphire. <i>Acta Materialia</i> , 2011 , 59, 5181-5193 | 8.4 | 40 |

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| 157 | In situ thermal imaging and three-dimensional finite element modeling of tungsten carbidellobalt during laser deposition. <i>Acta Materialia</i> , 2009 , 57, 5419-5429 | 8.4 | 40 | |
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| 156 | An integrated impact assessment and weighting methodology: evaluation of the environmental consequences of computer display technology substitution. <i>Journal of Environmental Management</i> , 2007 , 83, 1-24 | 7.9 | 40 | |
| 155 | Strain softening in nanocrystalline or ultrafine-grained metals: A mechanistic explanation. <i>Materials Science & Microstructure and Processing</i> , 2008 , 493, 101-103 | 5.3 | 40 | |
| 154 | Thermal stability of nanostructured Cr3C2-NiCr coatings. <i>Journal of Thermal Spray Technology</i> , 2001 , 10, 293-300 | 2.5 | 40 | |
| 153 | Entropic phase transformation in nanocrystalline high entropy oxides. <i>Materials Research Letters</i> , 2019 , 7, 60-67 | 7.4 | 40 | |
| 152 | Microstructure and Strengthening Mechanisms in an Ultrafine Grained Al-Mg-Sc Alloy Produced by Powder Metallurgy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 6329-6343 | 2.3 | 38 | |
| 151 | The Microstructural Design of Trimodal Aluminum Composites. <i>Jom</i> , 2014 , 66, 898-908 | 2.1 | 37 | |
| 150 | Spark Plasma Sintering of Cryomilled Nanocrystalline Al Alloy - Part II: Influence of Processing Conditions on Densification and Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 340-350 | 2.3 | 36 | |
| 149 | The influence of working distance on laser deposited WCLO. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 4935-4941 | 5.3 | 34 | |
| 148 | Strengthening mechanisms and deformation behavior of cryomilled AltuMgAg alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 632, 591-603 | 5.7 | 33 | |
| 147 | Observations of particle-melt pool impact events in directed energy deposition. <i>Additive Manufacturing</i> , 2018 , 22, 368-374 | 6.1 | 32 | |
| 146 | Environmental and economic evaluation of cathode ray tube (CRT) funnel glass waste management options in the United States. <i>Resources, Conservation and Recycling</i> , 2013 , 78, 92-104 | 11.9 | 32 | |
| 145 | Degassing Behavior of Nanostructured Al and Its Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 532-541 | 2.3 | 32 | |
| 144 | Working distance passive stability in laser directed energy deposition additive manufacturing. <i>Materials and Design</i> , 2019 , 161, 86-94 | 8.1 | 32 | |
| 143 | Bulk ultrafine grained/nanocrystalline metals via slow cooling. <i>Science Advances</i> , 2019 , 5, eaaw2398 | 14.3 | 30 | |
| 142 | Environmental and risk screening for prioritizing pollution prevention opportunities in the U.S. printed wiring board manufacturing industry. <i>Journal of Hazardous Materials</i> , 2011 , 189, 315-22 | 12.8 | 30 | |
| 141 | Adopting Lead-Free Electronics: Policy Differences and Knowledge Gaps. <i>Journal of Industrial Ecology</i> , 2004 , 8, 59-85 | 7.2 | 30 | |
| 140 | Investigation into the effects of Fe additions on the equilibrium phase compositions, phase fractions and phase stabilities in the Nitral system. <i>Acta Materialia</i> , 2010 , 58, 1518-1529 | 8.4 | 29 | |

| 139 | Cryomilling for the fabrication of a particulate B4C reinforced Al nanocomposite: Part II. Mechanisms for microstructural evolution. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 3111-3117 | 2.3 | 29 |
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| 138 | Elevated temperature wear behavior of thermally sprayed WC-Co/nanodiamond composite coatings. <i>Surface and Coatings Technology</i> , 2017 , 315, 283-293 | 4.4 | 28 |
| 137 | Influence of phase decomposition on mechanical behavior of an equiatomic CoCuFeMnNi high entropy alloy. <i>Acta Materialia</i> , 2019 , 181, 25-35 | 8.4 | 28 |
| 136 | Spark Plasma Sintering of Cryomilled Nanocrystalline Al Alloy - Part I: Microstructure Evolution. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 327-339 | 2.3 | 27 |
| 135 | Synthesis of Bilicon nitride single-crystalline nanowires by nitriding cryomilled nanocrystalline silicon powder. <i>Scripta Materialia</i> , 2009 , 60, 737-740 | 5.6 | 27 |
| 134 | Creep deformation mechanism of cryomilled NiCrAlY bond coat material. <i>Surface and Coatings Technology</i> , 2007 , 201, 9462-9467 | 4.4 | 27 |
| 133 | Stabilized plasticity in ultrahigh strength, submicron Al crystals. <i>Acta Materialia</i> , 2015 , 94, 46-58 | 8.4 | 26 |
| 132 | Reinforcement Size Dependence of Load Bearing Capacity in Ultrafine-Grained Metal Matrix Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 4385-4392 | 2.3 | 25 |
| 131 | Linking Material Flow Analysis with Environmental Impact Potential. <i>Journal of Industrial Ecology</i> , 2013 , 17, 299-309 | 7.2 | 24 |
| 130 | Quasi-static and high-rate mechanical behavior of aluminum-based MMC reinforced with boron carbide of various length scales. <i>Materials Science & Dispersion A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 650, 305-316 | 5.3 | 23 |
| 129 | Influence of cryomilling on the microstructural features in HVOF-sprayed NiCrAlY bond coats for thermal barrier coatings: Creation of a homogeneous distribution of nanoscale dispersoids. <i>Philosophical Magazine Letters</i> , 2010 , 90, 739-751 | 1 | 23 |
| 128 | Quantity-based and toxicity-based evaluation of the U.S. Toxics Release Inventory. <i>Journal of Hazardous Materials</i> , 2010 , 178, 49-56 | 12.8 | 23 |
| 127 | Two-stage ball milling of recycled machining chips to create an alternative feedstock powder for metal additive manufacturing. <i>Powder Technology</i> , 2019 , 342, 562-571 | 5.2 | 23 |
| 126 | Two-Step SPD Processing of a Trimodal Al-Based Nano-Composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 5877-5886 | 2.3 | 22 |
| 125 | Directed energy deposition of Al 5xxx alloy using Laser Engineered Net Shaping (LENS[]). <i>Materials and Design</i> , 2020 , 192, 108763 | 8.1 | 22 |
| 124 | Flow battery production: Materials selection and environmental impact. <i>Journal of Cleaner Production</i> , 2020 , 269, 121740 | 10.3 | 22 |
| 123 | Relationship between manufacturing defects and fatigue properties of additive manufactured austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 765, 138268 | 5.3 | 22 |
| 122 | Scratch-induced deformation in fine- and ultrafine-grained bulk alumina. <i>Scripta Materialia</i> , 2010 , 63, 528-531 | 5.6 | 22 |

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| 121 | Influence of grain boundaries with dispersed nanoscale Al2O3 particles on the strength of Al for a wide range of homologous temperatures. <i>Journal of Alloys and Compounds</i> , 2019 , 772, 472-481 | 5.7 | 22 | |
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| 120 | Microscale tribological behavior and in vitro biocompatibility of graphene nanoplatelet reinforced alumina. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 61, 122-134 | 4.1 | 21 | |
| 119 | Reversed compressive yield anisotropy in magnesium with microlaminated structure. <i>Acta Materialia</i> , 2018 , 146, 12-24 | 8.4 | 20 | |
| 118 | Spark plasma sintering and mechanical behavior of magnesialltria (50:50 vol.%) nanocomposites. <i>Scripta Materialia</i> , 2014 , 75, 18-21 | 5.6 | 20 | |
| 117 | Comparative alternative materials assessment to screen toxicity hazards in the life cycle of CIGS thin film photovoltaics. <i>Journal of Hazardous Materials</i> , 2013 , 260, 534-42 | 12.8 | 20 | |
| 116 | Modelling particle impact on the melt pool and wettability effects in laser directed energy deposition additive manufacturing. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 138052 | 5.3 | 19 | |
| 115 | Exceptional combination of soft magnetic and mechanical properties in a heterostructured high-entropy composite. <i>Applied Materials Today</i> , 2019 , 15, 590-598 | 6.6 | 19 | |
| 114 | Spark Plasma Sintering and Densification Mechanisms of Conductive Ceramics under Coupled Thermal/Electric Fields. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 732-740 | 3.8 | 19 | |
| 113 | A Statistical Analysis of Powder Flowability in Metal Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000022 | 3.5 | 19 | |
| 112 | Effect of post-annealing on the electrical conductivity of spark plasma sintered antimony-doped tin oxide (ATO) ceramics. <i>Scripta Materialia</i> , 2013 , 68, 297-300 | 5.6 | 19 | |
| 111 | Simultaneous synthesis by spark plasma sintering of a thermal barrier coating system with a NiCrAlY bond coat. <i>Surface and Coatings Technology</i> , 2010 , 205, 1241-1244 | 4.4 | 19 | |
| 110 | Thermodynamic investigation into the equilibrium phases in the NiCoCrAl system at elevated temperatures. <i>Surface and Coatings Technology</i> , 2010 , 205, 2273-2280 | 4.4 | 19 | |
| 109 | A streamlined life cycle assessment on the fabrication of WCITo cermets. <i>Journal of Cleaner Production</i> , 2008 , 16, 1118-1126 | 10.3 | 19 | |
| 108 | Advancing Alternative Analysis: Integration of Decision Science. <i>Environmental Health Perspectives</i> , 2017 , 125, 066001 | 8.4 | 18 | |
| 107 | TEM study on relationship between stacking faults and non-basal dislocations in Mg. <i>Philosophical Magazine</i> , 2015 , 95, 3823-3844 | 1.6 | 18 | |
| 106 | Human health and ecotoxicological considerations in materials selection for sustainable product development. <i>MRS Bulletin</i> , 2012 , 37, 356-363 | 3.2 | 17 | |
| 105 | An integrated approach for probing the structure and mechanical properties of diatoms: Toward engineered nanotemplates. <i>Acta Biomaterialia</i> , 2015 , 25, 313-24 | 10.8 | 16 | |
| 104 | A comparative analysis of solubility, segregation, and phase formation in atomized and cryomilled Al B e alloy powders. <i>Journal of Materials Science</i> , 2015 , 50, 4683-4697 | 4.3 | 16 | |

| 103 | Anomalous Annealing Response of Directed Energy Deposited Type 304L Austenitic Stainless Steel. Jom, 2018 , 70, 358-363 | 2.1 | 16 |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 102 | Metal/ceramic Interface Structures and Segregation Behavior in Aluminum-based Composites. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1053-1054 | 0.5 | 16 |
| 101 | Improving build quality in Directed Energy Deposition by cross-hatching. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 765, 138269 | 5.3 | 15 |
| 100 | Distinct Hardening Behavior of Ultrafine-Grained Al-Zn-Mg-Cu Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4762-4765 | 2.3 | 15 |
| 99 | Micro-strain Evolution and Toughening Mechanisms in a Trimodal Al-Based Metal Matrix Composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 1196-1204 | 2.3 | 15 |
| 98 | Combining U.Sbased prioritization tools to improve screening level accountability for environmental impact: the case of the chemical manufacturing industry. <i>Journal of Hazardous Materials</i> , 2009 , 172, 423-31 | 12.8 | 15 |
| 97 | Improved Mechanical Behavior and Plastic Deformation Capability of Ultrafine Grain Alumina Ceramics. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 379-385 | 3.8 | 14 |
| 96 | Priority screening of toxic chemicals and industry sectors in the U.S. toxics release inventory: a comparison of the life cycle impact-based and risk-based assessment tools developed by U.S. EPA. <i>Journal of Environmental Management</i> , 2011 , 92, 2235-40 | 7.9 | 14 |
| 95 | Nanocrystalline Ni coatings strengthened with ultrafine particles. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 673-683 | 2.3 | 14 |
| 94 | Synthesis and Pressureless Sintering of Zirconium Phosphate Ceramics. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3173-3180 | 3.8 | 13 |
| 93 | Directed energy deposition of AlSi10Mg: Single track nonscalability and bulk properties. <i>Materials and Design</i> , 2020 , 194, 108847 | 8.1 | 12 |
| 92 | Multiple and extended shear band formation in MgCuGd metallic glass during high-pressure torsion. <i>Scripta Materialia</i> , 2014 , 86, 24-27 | 5.6 | 12 |
| 91 | The Influence of Grain Size Determination Method on Grain Growth Kinetics Analysis. <i>Advanced Engineering Materials</i> , 2015 , 17, 1598-1607 | 3.5 | 12 |
| 90 | High temperature microstructure and microhardness evolution in dense NiCrAlY bulk material fabricated by spark plasma sintering. <i>Materials Science & Dispersing A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3210-3217 | 5.3 | 12 |
| 89 | Environmental Sustainability of Laser Metal Deposition: The Role of Feedstock Powder and Feedstock Utilization Factor. <i>Procedia Manufacturing</i> , 2017 , 7, 198-204 | 1.5 | 11 |
| 88 | Twin formation from a twin boundary in Mg during in-situ nanomechanical testing. <i>Materials Science & Microstructure and Processing</i> , 2019 , 759, 142-153 | 5.3 | 11 |
| 87 | Disconnection-mediated twin embryo growth in Mg. Acta Materialia, 2020, 194, 437-451 | 8.4 | 11 |
| 86 | Stress-enhanced grain growth in a nanostructured aluminium alloy during spark plasma sintering. Philosophical Magazine Letters, 2014 , 94, 741-748 | 1 | 11 |

(2020-2012)

| 85 | Strain Energy During Mechanical Milling: Part I. Mathematical Modeling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 4247-4257 | 2.3 | 11 |
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| 84 | Microstructure and mechanical behavior of NS/UFG aluminum prepared by cryomilling and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2016 , 679, 426-435 | 5.7 | 11 |
| 83 | Spark Plasma Sintering of Nanostructured Aluminum: Influence of Tooling Material on Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 1908-1916 | 2.3 | 9 |
| 82 | Absorption of Nitrogen at Al/Al2O3 Interfaces in Al Nanocomposites: A Computational Analysis. <i>Advanced Engineering Materials</i> , 2012 , 14, 77-84 | 3.5 | 8 |
| 81 | Spark Plasma Sintering and Densification Mechanisms of Antimony-Doped Tin Oxide Nanoceramics. Journal of Nanomaterials, 2013 , 2013, 1-7 | 3.2 | 8 |
| 80 | Sintering behavior in zirconium phosphate bonded silicon nitride porous ceramics. <i>Materials Science</i> & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 497, 495-500 | 5.3 | 8 |
| 79 | From Recycled Machining Waste to Useful Powders for Metal Additive Manufacturing. <i>Minerals, Metals and Materials Series</i> , 2019 , 3-7 | 0.3 | 8 |
| 78 | Synthesis and Multi Scale Tribological Behavior of WC-Co/Nanodiamond Nanocomposites. <i>Scientific Reports</i> , 2017 , 7, 7060 | 4.9 | 7 |
| 77 | Orientation Effects on Fatigue Behavior of Additively Manufactured Stainless Steel 2017, | | 7 |
| 76 | Measurement and analysis of product energy efficiency to assist energy star criteria development: An example for desktop computers. <i>Energy Policy</i> , 2011 , 39, 8003-8010 | 7.2 | 7 |
| 75 | Investigation of atypical molten pool dynamics in tungsten carbide-cobalt during laser deposition using in-situ thermal imaging. <i>Applied Physics Letters</i> , 2012 , 100, 034101 | 3.4 | 7 |
| 74 | A comparative hierarchical decision framework on toxics use reduction effectiveness for electronic and electrical industries. <i>Environmental Science & Environmental Science &</i> | 10.3 | 7 |
| 73 | Deformation of a ceramic/metal interface at the nanoscale. <i>Nanoscale</i> , 2016 , 8, 10541-7 | 7.7 | 7 |
| 72 | Accommodation and formation of {1[012} twins in Mg-Y alloys. <i>Acta Materialia</i> , 2021 , 204, 116514 | 8.4 | 7 |
| 71 | Microstructural development in DED stainless steels: applying welding models to elucidate the impact of processing and alloy composition. <i>Journal of Materials Science</i> , 2021 , 56, 762-780 | 4.3 | 7 |
| 70 | Iron in solution with aluminum matrix after non-equilibrium processing: an atom probe tomography study. <i>Philosophical Magazine Letters</i> , 2017 , 97, 118-124 | 1 | 6 |
| 69 | Toughening magnesium with gradient twin meshes. Acta Materialia, 2020, 195, 468-481 | 8.4 | 6 |
| 68 | High temperature compressive properties and microstructure of WC-Ni3Al cermets prepared by spark plasma sintering. <i>Vacuum</i> , 2020 , 175, 109281 | 3.7 | 6 |

| 67 | Nanoscratch-induced deformation behaviour in B4C particle reinforced ultrafine grained Al alloy composites: a novel diagnostic approach. <i>Philosophical Magazine</i> , 2014 , 94, 1754-1763 | 1.6 | 6 |
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