

# Oscar A Ruano

## List of Publications by Year in Descending Order

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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.

193  
papers

5,950  
citations

40  
h-index

71  
g-index

194  
ext. papers

6,424  
ext. citations

3.8  
avg, IF

5.69  
L-index

| #   | Paper                                                                                                                                                                                                                                                                         | IF  | Citations |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 193 | Critical Analysis of Threshold Stresses in the Creep Mechanisms of a Powder Metallurgy Magnesium Alloy AZ31. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 2344-2358                                       | 2.3 | 2         |
| 192 | Hot forming behavior of a modified NiCr superalloy. <i>International Journal of Materials Research</i> , <b>2020</b> , 111, 968-975                                                                                                                                           | 0.5 | 3         |
| 191 | Processing Maps for the Hot Forming of Polycrystalline Metallic Materials Using the Garofalo Equation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 5836-5847                                             | 2.3 |           |
| 190 | Microstructure and stability conditions for hot deformation of a modified iron-based superalloy. <i>Materials Science and Technology</i> , <b>2019</b> , 35, 2217-2224                                                                                                        | 1.5 | 1         |
| 189 | Optimum hot forming temperature of AZ61 magnesium alloy. <i>Materials Science and Technology</i> , <b>2018</b> , 34, 1425-1432                                                                                                                                                | 1.5 | 1         |
| 188 | Comparison of efficiency and stability maps obtained by various methods. <i>Advances in Materials and Processing Technologies</i> , <b>2018</b> , 4, 132-141                                                                                                                  | 0.8 |           |
| 187 | Severe friction stir processing of an Al-Zn-Mg-Cu alloy: Misorientation and its influence on superplasticity. <i>Materials and Design</i> , <b>2018</b> , 137, 128-139                                                                                                        | 8.1 | 18        |
| 186 | Superplasticity of Aerospace 7075 (Al-Zn-Mg-Cu) Aluminium Alloy Obtained by Severe Plastic Deformation. <i>Defect and Diffusion Forum</i> , <b>2018</b> , 385, 39-44                                                                                                          | 0.7 | 2         |
| 185 | Ductility and Stability in Metallic Materials. <i>Materials Science Forum</i> , <b>2018</b> , 941, 2319-2324                                                                                                                                                                  | 0.4 |           |
| 184 | Hot Forming Optimization of ZK30 Magnesium Alloy. <i>Materials Science Forum</i> , <b>2018</b> , 941, 2325-2330                                                                                                                                                               | 0.4 | 1         |
| 183 | Modelling the optimum hot workability of TiB reinforced Ti-6Al-4 V alloy by stability maps. <i>International Journal of Material Forming</i> , <b>2017</b> , 10, 379-387                                                                                                      | 2   | 2         |
| 182 | A New Stability Criterion for the Hot Deformation Behavior of Materials: Application to the AZ31 Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 3445-3460                                  | 2.3 | 10        |
| 181 | Influence of Grain Coarsening on the Creep Parameters During the Superplastic Deformation of a Severely Friction Stir Processed Al-Zn-Mg-Cu Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 3980-3984 | 2.3 | 5         |
| 180 | Mechanical properties of ultra-fine grained AZ91 magnesium alloy processed by friction stir processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 628, 198-206                            | 5.3 | 54        |
| 179 | Origin of the reversed yield asymmetry in Mg-rare earth alloys at high temperature. <i>Acta Materialia</i> , <b>2015</b> , 92, 265-277                                                                                                                                        | 8.4 | 29        |
| 178 | Evolution of the microstructure, texture and creep properties of the 7075 aluminium alloy during hot accumulative roll bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 606, 434-442    | 5.3 | 27        |
| 177 | Comparative Analysis by the Newton Method of New Constitutive Strain Dependent Creep Equations Based on the Garofalo Equation. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 2136-2141                                                                              | 0.4 |           |

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| 176 | The effect of heterogeneous deformation on the hot deformation of WE54 magnesium alloy. <i>Materials &amp; Design</i> , <b>2014</b> , 58, 30-35                                                                                                                                                  |     | 6  |
| 175 | Assessment of homogeneity of the shear-strain pattern in Al $\square$ wt%Si casting alloy processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 597, 102-110                         | 5.3 | 8  |
| 174 | Influence of microstructural stability on the creep mechanism of Al $\square$ wt% Si alloy processed by equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 612, 162-171               | 5.3 | 15 |
| 173 | Role of particles on microstructure and mechanical properties of the severely processed 7075 aluminium alloy. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 833-841                                                                                                                    | 4.3 | 7  |
| 172 | Effect of Processing Temperature on the Texture and Shear Mechanical Properties of Diffusion Bonded Ti-6Al-4V Multilayer Laminates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 4743-4753                                   | 2.3 | 9  |
| 171 | Achieving microstructures prone to superplastic deformation in an Al $\square$ Zn $\square$ Mg $\square$ Cu alloy by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 546, 253-259                                                                         | 5.7 | 24 |
| 170 | Lowering the temperature for high strain rate superplasticity in an Al $\square$ Mg $\square$ Zn $\square$ Cu alloy via cooled friction stir processing. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 142, 182-185                                                                     | 4.4 | 35 |
| 169 | High temperature deformation and microstructural instability in AZ31 magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 570, 135-148                                                                 | 5.3 | 32 |
| 168 | Influence of interfacial defects on the impact toughness of solid state diffusion bonded Ti $\square$ Al $\square$ V alloy based multilayer composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 563, 28-35 | 5.3 | 34 |
| 167 | El m3todo de Newton para la optimizaci3n de una nueva ecuaci3n constitutiva para la fluencia pl3stica dependiente de la deformaci3n. Aplicaci3n a las aleaciones de magnesio AZ80 y AZ61. <i>Revista De Metalurgia</i> , <b>2013</b> , 49, 378-396                                               | 0.4 | 4  |
| 166 | Influence of Processing Severity During Equal-Channel Angular Pressing on the Microstructure of an Al-Zn-Mg-Cu Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 4224-4236                                                 | 2.3 | 22 |
| 165 | Study of hot deformation of an Al $\square$ Cu $\square$ Mg alloy using processing maps and microstructural characterization. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 552, 530-539                         | 5.3 | 43 |
| 164 | Effect of warm accumulative roll bonding on the evolution of microstructure, texture and creep properties in the 7075 aluminium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 556, 287-294                | 5.3 | 21 |
| 163 | Simulation of Hot Rolling Processing of an Al-Cu-Mg Alloy by Torsion Tests. <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 277-282                                                                                                                                                      | 0.4 | 2  |
| 162 | Friction Stir Processing of the Magnesium Alloy AZ61: Grain Size Refinement and Mechanical Properties. <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 1823-1828                                                                                                                         | 0.4 | 5  |
| 161 | Fine and Ultra-Fine Grained AZ61 and AZ91 Magnesium Alloys Obtained by Friction Stir Processing. <i>Materials Science Forum</i> , <b>2012</b> , 706-709, 1002-1007                                                                                                                               | 0.4 | 5  |
| 160 | Microstructure and Texture Evolution in Metals and Alloys during Intense Plastic Deformation. <i>Materials Science Forum</i> , <b>2012</b> , 715-716, 51-60                                                                                                                                      | 0.4 | 1  |
| 159 | Determinaci3n de los mecanismos de fractura de un material multicapa de aluminio de alta resistencia y excelente tenacidad a impacto basado en la aleaci3n aeroespacial Al 7075. <i>Revista De Metalurgia</i> , <b>2012</b> , 48, 290-302                                                        | 0.4 | 1  |

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| 158 | Un nuevo modelo fenomenológico y diferencial para predecir la respuesta mecánica de materiales metálicos policristalinos sometidos a deformación en caliente. <i>Revista De Metalurgia</i> , <b>2012</b> , 48, 367-376                                                                                         | 0.4 |    |
| 157 | Influence of the thermal treatment on the deformation-induced precipitation of a hypoeutectic Al-7wt% Si casting alloy deformed by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 636-643                                                                                  | 5.7 | 56 |
| 156 | Mechanical properties at room temperature of an Al-20Mg-2Cu alloy processed by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 8649-8656                                                                                                                           | 5.7 | 57 |
| 155 | High strain rate superplasticity at intermediate temperatures of the Al 7075 alloy severely processed by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 9589-9597                                                                                                 | 5.7 | 45 |
| 154 | Influence of the supersaturated silicon solid solution concentration on the effectiveness of severe plastic deformation processing in Al-7 wt.% Si casting alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 7938-7947 | 5.3 | 32 |
| 153 | Microstructural characterization by electron backscatter diffraction of a hot worked Al-Cu-Mg alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 3161-3168                                                              | 5.3 | 8  |
| 152 | High temperature workability behaviour of a modified P92 steel. <i>International Journal of Materials Research</i> , <b>2011</b> , 102, 1378-1383                                                                                                                                                              | 0.5 | 8  |
| 151 | Comparative Study of Various Data Conversion Methods for Torsion Tests Applied to a HSLA Steel. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 3164-3169                                                                                                                                              | 0.4 |    |
| 150 | Mechanical Properties and Forming Behavior of a Type 9%Cr Steel Containing 2%W. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 3128-3133                                                                                                                                                              | 0.4 | 2  |
| 149 | Accumulative Roll Bonding of 7075 Aluminium Alloy at High Temperature. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 1929-1933                                                                                                                                                                       | 0.4 | 2  |
| 148 | Effect of Annealing Treatments on Strain Rate Sensitivity and Anisotropy in a Magnesium Alloy Processed by Severe Rolling. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 1524-1529                                                                                                                   | 0.4 | 1  |
| 147 | Influence of data conversion methods from torsion tests on the Garofalo equation parameters for a high nitrogen steel. <i>International Journal of Materials Research</i> , <b>2010</b> , 101, 787-793                                                                                                         | 0.5 | 10 |
| 146 | Effect of thermal treatment on the interfacial shear toughness of an aluminium composite laminate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 2579-2587                                                                | 5.3 | 9  |
| 145 | Influence of Constituent Materials on the Impact Toughness and Fracture Mechanisms of Hot-Roll-Bonded Aluminum Multilayer Laminates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2010</b> , 41, 61-72                                                    | 2.3 | 23 |
| 144 | Influence of the Processing Temperature on the Microstructure, Texture, and Hardness of the 7075 Aluminum Alloy Fabricated by Accumulative Roll Bonding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2010</b> , 41, 758-767                              | 2.3 | 30 |
| 143 | A New Constitutive Strain-Dependent Garofalo Equation to Describe the High-Temperature Processing of Materials—Application to the AZ31 Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2010</b> , 41, 2396-2407                             | 2.3 | 24 |
| 142 | Strain path and microstructure evolution during severe deformation processing of an as-cast hypoeutectic Al-Si alloy. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4613-4620                                                                                                                        | 4.3 | 26 |
| 141 | Analysis of Garofalo equation parameters for an ultrahigh carbon steel. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 5522-5527                                                                                                                                                                      | 4.3 | 14 |

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| 140 | Corrosion behaviour of AZ31 magnesium alloy with different grain sizes in simulated biological fluids. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 1763-71                                                                                                                     | 10.8 | 349 |
| 139 | Corrosion inhibition of powder metallurgy Mg by fluoride treatments. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 1772-82.8                                                                                                                                                     | 8.8  | 104 |
| 138 | Nuevo modelo para la predicción de la microestructura final y los parámetros de recristalización dinámica de materiales metálicos policristalinos. Aplicación a la aleación de magnesio AZ31. <i>Revista De Metalurgia</i> , <b>2010</b> , 46, 115-127                          | 0.4  | 1   |
| 137 | La tensión umbral para la fluencia, en un material de base magnesio procesado por pulvimetalurgia. <i>Revista De Metalurgia</i> , <b>2010</b> , 46, 78-84                                                                                                                       | 0.4  |     |
| 136 | Influencia del tratamiento térmico en las intercaras y propiedades mecánicas de un laminado multicapa de aluminio. <i>Revista De Metalurgia</i> , <b>2010</b> , 46, 85-94                                                                                                       | 0.4  |     |
| 135 | Fracture toughness for interfacial delamination of Cr/Mo steel multilayer laminate. <i>Materials Science and Technology</i> , <b>2009</b> , 25, 632-635                                                                                                                         | 1.5  | 3   |
| 134 | Impact toughness improvement of high-strength aluminium alloy by intrinsic and extrinsic fracture mechanisms via hot roll bonding. <i>Scripta Materialia</i> , <b>2009</b> , 61, 407-410                                                                                        | 5.6  | 31  |
| 133 | Effect of annealing treatments on the anisotropy of a magnesium alloy sheet processed by severe rolling. <i>Materials Letters</i> , <b>2009</b> , 63, 1551-1554                                                                                                                 | 3.3  | 37  |
| 132 | Analysis of adiabatic heating and its influence on the Garofalo equation parameters of a high nitrogen steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 517, 191-196                        | 5.3  | 30  |
| 131 | Interface Effects on the Fracture Mechanism of a High-Toughness Aluminum-Composite Laminate. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2009</b> , 40, 69-79                                                             | 2.3  | 32  |
| 130 | Effect of testing temperature and strain rate on the transformation behaviour of retained austenite in low-alloyed multiphase steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 508, 195-199 | 5.3  | 34  |
| 129 | Damage tolerance assessment by bend and shear tests of two multilayer composites: Glass fibre reinforced metal laminate and aluminium roll-bonded laminate. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 343-348                                                | 8.6  | 33  |
| 128 | New numerical method for the fit of Garofalo equation and its application for predicting hot workability of a (V/N) microalloyed steel. <i>Materials Science and Technology</i> , <b>2009</b> , 25, 995-1002                                                                    | 1.5  | 22  |
| 127 | An evidence of high strain rate superplasticity at intermediate homologous temperatures in an Al <sub>70</sub> Ni <sub>10</sub> Mg <sub>10</sub> Ti alloy processed by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 473, 163-168.7             | 5.7  | 46  |
| 126 | Enhanced grain refinement due to deformation-induced precipitation during ambient-temperature severe plastic deformation of an Al <sub>70</sub> %Si alloy. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 139-143                                                  | 5.7  | 26  |
| 125 | Influence of the thermal treatment on the microstructure and hardness evolution of 7075 aluminium layers in a hot-rolled multilayer laminate composite. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 154-162                                                     | 5.7  | 11  |
| 124 | Influencia de la microestructura de partida en la ecuación constitutiva para la fluencia de un acero. <i>Revista De Metalurgia</i> , <b>2009</b> , 45, 70-75                                                                                                                    | 0.4  | 3   |
| 123 | Grain shape and microstructural evolution during equal channel angular pressing. <i>Scripta Materialia</i> , <b>2008</b> , 58, 17-20                                                                                                                                            | 5.6  | 8   |

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| 122 | Effect of the deformation path on the ductility of a hypoeutectic AlSi casting alloy subjected to equal-channel angular pressing by routes A, BA, BC and C. <i>Scripta Materialia</i> , <b>2008</b> , 58, 138-141                                                                           | 5.6 | 52  |
| 121 | Bulk nanocrystalline Zr by high-pressure torsion. <i>Scripta Materialia</i> , <b>2008</b> , 58, 219-222                                                                                                                                                                                     | 5.6 | 109 |
| 120 | Superplasticity in a magnesium alloy prepared with bimodal grain size distributions developed by dynamic recrystallisation. <i>Materials Letters</i> , <b>2008</b> , 62, 3391-3394                                                                                                          | 3.3 | 19  |
| 119 | Influence of grain size fluctuations on ductility of superplastic magnesium alloys processed by severe plastic deformation. <i>Materials Science and Technology</i> , <b>2008</b> , 24, 1238-1244                                                                                           | 1.5 | 7   |
| 118 | New Model for Characterization of Dynamic Recrystallization and Prediction of Grain Size Applied to Two Wrought Magnesium Alloys. <i>Materials Science Forum</i> , <b>2008</b> , 604-605, 87-96                                                                                             | 0.4 | 2   |
| 117 | Bond Strength of Ultrafine Grained Zr Fabricated by Accumulative Roll Bonding. <i>Materials Science Forum</i> , <b>2008</b> , 584-586, 243-248                                                                                                                                              | 0.4 | 2   |
| 116 | Microstructural development during equal channel angular pressing of hypo-eutectic AlSi casting alloy by different processing routes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 485, 160-175            | 5.3 | 33  |
| 115 | Influence of texture on dynamic recrystallization and deformation mechanisms in rolled or ECAPed AZ31 magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 487, 473-480                           | 5.3 | 102 |
| 114 | Severe plastic deformation of an as-cast hypoeutectic AlSi alloy. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 7501-7506                                                                                                                                                         | 4.3 | 8   |
| 113 | Effect of Hot Rolling on Bonding Characteristics and Impact Behavior of a Laminated Composite Material Based on UHCS-1.35 Pct C. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 666-671                                   | 2.3 | 27  |
| 112 | Texture, microstructure and mechanical properties of equiaxed ultrafine-grained Zr fabricated by accumulative roll bonding. <i>Acta Materialia</i> , <b>2008</b> , 56, 1228-1242                                                                                                            | 8.4 | 114 |
| 111 | Influence of the thermomechanical processing on the fracture mechanisms of high strength aluminium/pure aluminium multilayer laminate materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 490, 319-327 | 5.3 | 41  |
| 110 | Influence of the alumina thickness at the interfaces on the fracture mechanisms of aluminium multilayer composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 496, 133-142                              | 5.3 | 33  |
| 109 | The Ultrahigh Ductility of an Ultrahigh Carbon Steel Containing 3%Si. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 4801-4806                                                                                                                                                     | 0.4 |     |
| 108 | Separate contributions of texture and grain size on the creep mechanisms in a fine-grained magnesium alloy. <i>Acta Materialia</i> , <b>2007</b> , 55, 455-466                                                                                                                              | 8.4 | 92  |
| 107 | Optimization of the microstructure for improving superplastic forming in magnesium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 467, 165-171                                                       | 5.3 | 44  |
| 106 | Symbiosis between grain boundary sliding and slip creep to obtain high-strain-rate superplasticity in aluminum alloys. <i>Journal of the European Ceramic Society</i> , <b>2007</b> , 27, 3385-3390                                                                                         | 6   | 15  |
| 105 | Particle and grain growth in an AlSi alloy during high-pressure torsion. <i>Scripta Materialia</i> , <b>2007</b> , 57, 763-766                                                                                                                                                              | 5.6 | 70  |

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| 104 | On the threshold stress for superplasticity in MgAlZn alloys. <i>Scripta Materialia</i> , <b>2007</b> , 57, 829-832                                                                | 5.6 | 24  |
| 103 | The fabrication of bulk ultrafine-grained zirconium by accumulative roll bonding. <i>Jom</i> , <b>2007</b> , 59, 42-45                                                             | 2.1 | 23  |
| 102 | Influence of thermomechanical processing on superplastic forming of MgAl alloys. <i>Materials Science and Technology</i> , <b>2007</b> , 23, 444-450                               | 1.5 | 4   |
| 101 | Influence of interfaces on the mechanical properties of ultrahigh carbon steel multilayer laminates. <i>International Journal of Materials Research</i> , <b>2007</b> , 98, 47-52  | 0.5 | 16  |
| 100 | Mechanical Properties of Composite Materials Consisting of M3/2 High Speed Steel Reinforced with Niobium Carbides. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 756-762 | 0.4 |     |
| 99  | Nanostructuring a Zr-Hf Alloy via Large Strain Rolling. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 2843-2848                                                          | 0.4 | 1   |
| 98  | Bend and Shear Tests: Suitable Methods for Mechanical Characterization of Laminated Composite Materials. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 901-906           | 0.4 | 1   |
| 97  | Thermomechanical Treatments of Ultrahigh Carbon Steels and Optimal Microstructures to Improve Toughness. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 4826-4831         | 0.4 | 1   |
| 96  | Microstructure and creep behaviour of an Osprey processed and extruded AlCuMgTiAg alloy. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 433, 97-107                        | 5.7 | 22  |
| 95  | Influence of the grain size on the strain rate sensitivity in an MgAlZn alloy at moderate temperatures. <i>Scripta Materialia</i> , <b>2006</b> , 55, 775-778                      | 5.6 | 53  |
| 94  | Deformation behavior of an AlCuMgTi alloy obtained by spray forming and extrusion. <i>Materials Letters</i> , <b>2006</b> , 60, 3232-3237                                          | 3.3 | 8   |
| 93  | The fracture toughness of a ultrahigh carbon steel containing 1.5 wt% C. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2006</b> , 29, 817-828           | 3   | 5   |
| 92  | Influence of texture and grain size on work hardening and ductility in magnesium-based alloys processed by ECAP and rolling. <i>Acta Materialia</i> , <b>2006</b> , 54, 4247-4259  | 8.4 | 500 |
| 91  | Delamination effect on the impact toughness of an ultrahigh carbon mild steel laminate composite. <i>Composites Science and Technology</i> , <b>2006</b> , 66, 2671-2676           | 8.6 | 67  |
| 90  | Texture evolution during deformation of an Al-6%Cu-0.4%Zr superplastic alloy. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 5576-5586                                    | 4.3 | 5   |
| 89  | Deformation behaviour of an Al-6%Cu-0.4%Zr superplastic alloy containing a gradient of texture. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 403, 176-185                | 5.7 | 5   |
| 88  | The effect of microstructure on the creep behavior of the Ti <sub>3</sub> Al <sub>2</sub> Mo <sub>0.2</sub> Si alloy. <i>Intermetallics</i> , <b>2005</b> , 13, 1021-1029          | 3.5 | 10  |
| 87  | Superplastic behaviour of two extruded gamma TiAl(Mo,Si) materials. <i>Intermetallics</i> , <b>2005</b> , 13, 749-755                                                              | 3.5 | 12  |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 86 | Achieving high strength in commercial Mg cast alloys through large strain rolling. <i>Materials Letters</i> , <b>2005</b> , 59, 3299-3303                                                                                                                                       | 3.3 | 108 |
| 85 | Microstructural and mechanical characterisation of composite materials consisting of M3/2 high speed steel reinforced with niobium carbides. <i>Powder Metallurgy</i> , <b>2005</b> , 48, 371-376                                                                               | 1.9 | 9   |
| 84 | Comparison of the microstructure and thermal stability of an AZ31 alloy processed by ECAP and large strain hot rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 410-411, 308-311          | 5.3 | 78  |
| 83 | Rate-controlling processes in creep of subgrain containing aluminum materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 410-411, 8-11                                                      | 5.3 | 13  |
| 82 | Accumulative roll bonding of a Mg-based AZ61 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 410-411, 353-357                                                                              | 5.3 | 83  |
| 81 | Superplastic Behavior of a Fine Grained AZ61 Alloy Processed by Large Strain Hot Rolling. <i>Materials Science Forum</i> , <b>2004</b> , 447-448, 221-226                                                                                                                       | 0.4 | 8   |
| 80 | Microstructural evolution during large strain hot rolling of an AM60 Mg alloy. <i>Scripta Materialia</i> , <b>2004</b> , 50, 661-665                                                                                                                                            | 5.6 | 173 |
| 79 | Effect of sheet thickness on the microstructural evolution of an Mg AZ61 alloy during large strain hot rolling. <i>Scripta Materialia</i> , <b>2004</b> , 50, 667-671                                                                                                           | 5.6 | 73  |
| 78 | Grain refinement of MgAlZn alloys via accumulative roll bonding. <i>Scripta Materialia</i> , <b>2004</b> , 51, 1093-1097                                                                                                                                                        | 5.6 | 224 |
| 77 | Solute-diffusion-controlled dislocation creep in pure aluminium containing 0.026 at.% Fe. <i>Philosophical Magazine</i> , <b>2004</b> , 84, 2417-2434                                                                                                                           | 1.6 | 19  |
| 76 | Grain Refinement in a Mg AZ91 Alloy via Large Strain Hot Rolling. <i>Materials Transactions</i> , <b>2003</b> , 44, 2625-2630                                                                                                                                                   | 5.6 | 27  |
| 75 | Texture evolution during grain growth in annealed MG AZ61 alloy. <i>Scripta Materialia</i> , <b>2003</b> , 48, 59-64                                                                                                                                                            | 5.6 | 81  |
| 74 | Microstructure and fracture properties of an ultrahigh carbon steel mild steel laminated composite. <i>Scripta Materialia</i> , <b>2003</b> , 48, 1135-1140                                                                                                                     | 5.6 | 64  |
| 73 | Texture analysis of the transition from slip to grain boundary sliding in a continuously recrystallized superplastic aluminum alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 342, 216-230 | 5.3 | 18  |
| 72 | Texture evolution during large-strain hot rolling of the Mg AZ61 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 355, 68-78                                                                | 5.3 | 245 |
| 71 | Characterization of a thermomechanically processed powder metallurgy Al <sub>85</sub> wt.% Mg <sub>12</sub> wt.% Cr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 361, 36-44             | 5.3 | 7   |
| 70 | Forming stability of an AlTiMo intermetallic compound and its dependence on microstructure. <i>Journal of Materials Processing Technology</i> , <b>2003</b> , 143-144, 416-419                                                                                                  | 5.3 | 3   |
| 69 | Deformation of fine-grained alumina by grain boundary sliding accommodated by slip. <i>Acta Materialia</i> , <b>2003</b> , 51, 3617-3634                                                                                                                                        | 8.4 | 92  |



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| 68 | Superplastic Behavior of Hot Extruded Gamma TiAl (Mo, Si) Alloys. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 1915-1920                                                                                                              | 0.4 | 1   |
| 67 | Microstructural Evolution during Hot Rolling of an AZ31 Mg Alloy. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 637-642                                                                                                                | 0.4 | 1   |
| 66 | Innovative Ultrahigh Carbon Steel Laminates with Outstanding Mechanical Properties. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 883-888                                                                                              | 0.4 | 9   |
| 65 | Mechanical Property - Microstructure Relations in Iron-Carbon Alloys from 1.0 to 5.2% Carbon. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 11-18                                                                                      | 0.4 | 5   |
| 64 | Fracture Behavior of an Ultrahigh Carbon Steel Containing 1.3%C as Influenced by Microstructure and Testing Conditions. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 847-852                                                          | 0.4 |     |
| 63 | Processing of Advanced Shape Memory Materials by Powder Metallurgy. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 4319-4324                                                                                                            | 0.4 | 1   |
| 62 | High Temperature Mechanical Behavior of a 30%Ni-19%Cr Steel. <i>ISIJ International</i> , <b>2003</b> , 43, 2062-2066                                                                                                                             | 1.7 | 3   |
| 61 | Texture evolution during annealing of magnesium AZ31 alloy. <i>Scripta Materialia</i> , <b>2002</b> , 46, 149-155                                                                                                                                | 5.6 | 160 |
| 60 | Denuded zones, diffusional creep, and grain boundary sliding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2002</b> , 33, 219-229                                                           | 2.3 | 66  |
| 59 | Toughness dependence on the microstructural parameters for an ultrahigh carbon steel (1.3 wt.% C). <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 335, 175-185    | 5.3 | 34  |
| 58 | Texture analysis of the transition from slip to grain boundary sliding in a discontinuously recrystallized superplastic aluminum alloy. <i>Acta Materialia</i> , <b>2001</b> , 49, 2259-2268                                                     | 8.4 | 85  |
| 57 | Superplastic properties of a $\gamma$ stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 307, 134-142                                                | 5.3 | 24  |
| 56 | Creep behavior of Fe-Cr alloys at high temperatures and high strain rates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 317, 101-107                            | 5.3 | 20  |
| 55 | Texture, Grain Boundaries and Deformation of Superplastic Aluminum Alloys. <i>Materials Science Forum</i> , <b>2001</b> , 357-359, 255-260                                                                                                       | 0.4 | 1   |
| 54 | Creep behavior of an oxide dispersion strengthened Ni <sub>3</sub> Al ordered intermetallic material. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 278, 272-277 | 5.3 | 0   |
| 53 | Characterization of a $\gamma$ duplex stainless steel. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 907-915                                                                                                                           | 4.3 | 29  |
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| 46 | Texture gradient evolution in Al-5%Ca-5%Zn sheet alloy after tensile deformation at high superplastic strain rate. <i>Scripta Materialia</i> , <b>1996</b> , 35, 1455-1460                                                                             | 5.6 | 17 |
| 45 | Microstructural characterization of an ultrahigh carbon and boron tool steel processed by different routes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1996</b> , 206, 194-200 | 5.3 | 21 |
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| 43 | The strain rate as a factor influencing the hot forming simulation of medium carbon microalloyed steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1996</b> , 216, 155-160    | 5.3 | 12 |
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| 28 | Harper-Dorn and Power-Law Creep in Single-Crystalline Magnesium Oxide. <i>Journal of the American Ceramic Society</i> , <b>1992</b> , 75, 1737-1741                                                                                   | 3.8 | 11 |
| 27 | Development of ultrafine microstructures and superplasticity in Hadfield manganese steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1992</b> , 150, 187-194 | 5.3 | 22 |
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| 20 | Harper-dorn creep in single crystalline NaCl. <i>Scripta Metallurgica Et Materialia</i> , <b>1991</b> , 25, 2065-2070                                                                                                                 |     | 8  |
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