DAVID C. DUNAND: PUBLICATION LIST (JULY 2013)

EDITED BOOKS

1. Y.W. Chung, D.C. Dunand, P.K. Liaw, G.B. Olson
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   TMS (Warrendale PA), 586 pages (1999)
   ISBN 0-87339-455-0

2. D.G. Sanders, D.C. Dunand
   “First and Second International Symposia on Superplasticity and Superplastic Forming Technology”
   ISBN 0-87170-758-6

3. L.P. Lefebvre, J. Banhart, D.C. Dunand
   “Porous Metals and Metallic Foams – Proceedings of the 5th International Conference, Metfoam 2007”
   DEStech Publications (Lancaster, PA), 530 pages (2008)

BOOK CHAPTERS

1. D.C. Dunand, B. Derby
   "Creep and Thermal Cycling"
   Fundamentals of Metal Matrix Composites
   (edited by S. Suresh, A. Mortensen and A. Needleman)

2. D.C. Dunand
   "Metal Matrix Composites: High-Temperature Behavior"
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3. R.B. Calhoun, D.C. Dunand
   “Dislocations in Metal Matrix Composites”
   Comprehensive Composite Materials: Vol. 3 - Metal Matrix Composites
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4. A. Bansiddhi, D.C. Dunand
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   Bone Substitute Biomaterials
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2. D.C. Dunand, A. Mortensen
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6. Q. Li, D.C. Dunand, A. Mortensen, J.A. Cornie
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8. D.C. Dunand, A. Mortensen
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9. N. Taylor, D.C. Dunand, A. Mortensen
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10. M.B. Srichai, D.C. Dunand, A. Mortensen
    "Calorimetry of Deformed Aluminum Reinforced with Alumina Particles"

11. D.C. Dunand, J.L. Sommer, A. Mortensen
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12. D.C. Dunand
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13. P.A. Noël, D.C. Dunand, A. Mortensen
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14. C.F. Pezzee, D.C. Dunand  
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15. C.M. Neubauer, D. Mari, D.C. Dunand  
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16. S.H. Thomin, P.A. Noël, D.C. Dunand  
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27. M.A.M. Bourke, R. Vaidyanathan, D.C. Dunand  
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28. D.C. Dunand, C.M. Bedell
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29. R.K. Shelton, D.C. Dunand
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32. D.C. Dunand, A.M. Jansen
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35. P. Zwigl, D.C. Dunand
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37. C. Schuh, D.C. Dunand
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40. D.C. Dunand, B.Q. Han, A.M. Jansen
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41. J.M. Lefeuvre, D.C. Dunand
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42. C. Fuller, D.N. Seidman, D.C. Dunand
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44. C. Schuh, D.C. Dunand
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45. M.R. Daymond, C. Lund, M.A.M. Bourke, D.C. Dunand
"Elastic phase-strain distribution in a particulate-reinforced metal-matrix composite deforming by slip or creep"

46. R. Vaidyanathan, M.A.M. Bourke, D.C. Dunand
“Phase Fraction, Texture and Strain Evolution in Superelastic NiTi and NiTi-TiC Composites Investigated by Neutron Diffraction”

47. T.A. Venkatesh, D.C. Dunand
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48. R. Vaidyanathan, M.A.M. Bourke, D.C. Dunand
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52. C. Schuh, D.C. Dunand, A. Wanner, H. Clemens
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53. R. Vaidyanathan, D.C. Dunand, U. Ramamurty
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“Enhanced Densification of Cavitated Dispersion-Strengthened Aluminum by Thermal Cycling”

59. A. Wanner, D.C. Dunand
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61. C. Schuh, D.C. Dunand
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62. M. Frary, C. Schuh, D.C. Dunand
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71. N.G. Davis, J. Teisen, C. Schuh, D.C. Dunand,
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72. A.M. Hodge, D.C. Dunand,
“Synthesis of Nickel Aluminide Foams by Pack Aluminization of Nickel Foams”

73. C. Schuh, D.C. Dunand
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76. D.C. Dunand
“Synthesis of Superconducting Mg/MgB2 Composites”

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“Enhanced Densification of Zinc Powders through Thermal Cycling”
83. C.B. Fuller, A.R. Krause, D.C. Dunand, D.N. Seidman
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   “Transformation Superplasticity of Water Ice and Ice Containing SiO$_2$ Particulates”

85. E.A. Marquis, D.C. Dunand
   “Model for Creep Threshold Stress in Precipitation-Strengthened Alloys with Coherent Particles”

86. M.A.M. Bourke, D.C. Dunand, E. Ustundag
   “SMARTS – A Spectrometer for Strain Measurement in Engineering Materials”

87. D.N. Seidman, E.A. Marquis, D.C. Dunand
   “Precipitation Strengthening at Ambient and Elevated Temperatures of Heat-Treatable Al(Sc) Alloys”

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   [Acta Materialia 50(16), pp. 4021-4035]”
   (erratum for publication #87, swapping names of first and second authors, and reprinting a poor-quality micrograph)

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90. Y. Harada, D.C. Dunand
   “Thermal Expansion of Al$_3$Sc and Al$_3$(Sc$_{0.75}$X$_{0.25}$)”

91. J.D. DeFouw, D.C. Dunand
   “In-situ Synthesis of Superconducting MgB$_2$ Fibers within a Magnesium Matrix”

92. C. San Marchi, M. Kouzeli, R. Rao, J.A. Lewis, D.C. Dunand
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93. N.G.D. Murray, C.A. Schuh, D.C. Dunand
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94. N.G.D. Murray, D.C. Dunand
   “Microstructure Evolution during Solid-State Foaming of Titanium”

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98. A.M. Hodge, D.C. Dunand
“Measurement and Modeling of Creep in Open-Cell NiAl Foams”

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“Copper-Zirconium Tungstate Composites Exhibiting Low and Negative Thermal Expansion Influenced by Reinforcement Phase Transformations”

105. H. Choe, D.C. Dunand
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106. N.G.D. Murray, D.C. Dunand

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“Effects of Pore Morphology and Bone Ingrowth on Mechanical Properties of Microporous Titanium as an Orthopaedic Implant Material”
109. S. Yilmaz and D.C. Dunand
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124. D.K. Balch, D.C. Dunand
   “Load Partitioning in Aluminum Syntactic Foams Containing Ceramic Microspheres”

125. K.E. Knipling, D.C. Dunand, D.N. Seidman
   “Criteria for Developing Castable, Creep-Resistant Aluminum Alloys – A Review”

126. J.D. Marvin, D.C. Dunand
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128. H. Shen, S.M. Oppenheimer, D.C. Dunand, L.C. Brinson
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130. M.L. Young, F. Casadio, S. Schneppe, J. Almer, D.R. Haeffner, D.C. Dunand
“Synchrotron X-ray Diffraction and Imaging of Ancient Chinese Bronzes”

131. A.H. Brothers, D.C. Dunand
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132. R.A. Karnesky, M.E. van Dalen, D.C. Dunand, D.N. Seidman
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133. M.E. Van Dalen, D.C. Dunand, D.N. Seidman
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137. R.A. Karnesky, L. Meng, D.C. Dunand
“Strengthening Mechanisms in Aluminum Containing Coherent Al3Sc Precipitates and incoherent Al2O3 Dispersoids”

138. M.L. Young, J.D. Almer, M.R. Daymond, D.R. Haeffner, D.C. Dunand
“Load Partitioning between Ferrite and Cementite during Elasto-Plastic Deformation of an Ultrahigh-Carbon Steel”

139. S.M. Oppenheimer, D.C. Dunand
“Finite-Element Modeling of Creep Deformation in Cellular Metals”

140. M.R. Daymond, M.L. Young, J.D. Almer, D.C. Dunand
“Strain and Texture Evolution during Mechanical Loading of a Crack Tip in Martensitic Shape-Memory NiTi”

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155. M.E. Krug, D.C. Dunand, D.N. Seidman
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157. J.D. DeFouw, J. Quintana, D.C. Dunand
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158. H. Choe, S. Abkowitz, S.M. Abkowitz, D.C. Dunand
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“Creep Resistance of Cast and Aged Al-0.1Zr and Al-0.1Zr-0.1Ti (at.%) Alloys at 300–400°C”

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