

PUBLICATIONS

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“Generalized Reliability Methodology Applied to Brittle Anisotropic Single Crystals,” J.A. Salem, Dissertation for degree of Doctor of Philosophy, University of Washington, M. G. Jenkins, advisor, December (1999).

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"Textural Effects on the Fracture Resistance of Polycrystalline Al₂O₃," J.A. Salem, Thesis for the degree of Master of Science in Material Science, University of Washington, R.C. Bradt, advisor, April (1987).

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4. “Effect of Lateral Cracks on Fracture Toughness Determined by the Surface-Crack-in-Flexure Method,” G.D. Quinn and J.A. Salem J. Am. Ceram. Soc., 85 [4] 873-880 (2002).
5. “Elevated Temperature Strength and Room Temperature Toughness of Directionally Solidified Ni-33Al-33Cr-1Mo,” J.D. Whittenberger, S.V. Raj, I.E. Locci and J.A. Salem, Metall. Mater. Trans. A. 33A (2002) 1385-97.
6. “Effect of Directionally Solidified Microstructures on the Room-Temperature Fracture-Toughness Properties of Ni-33(at.%)Al-33Cr-1Mo and Ni-33(at.%)Al-31Cr-3Mo Eutectic Alloys Grown at Different Solidification Rates,” S. V. Raj, I. E. Locci, J. A. Salem, and R. J. Pawlik, Metall. Mater. Trans. A. 33A (2002) 597-612.
7. “Mechanical Properties and Microstructure of Biomimetic Silicon Carbide Ceramics Fabricated From Wood Precursors”, M. Singh and J.A. Salem, J. European Ceram. Soc. 22 [14-15] (2002) 2709-2719.
8. “Evaluation of Ultra-High Temperature Ceramics For Aeropropulsion Use”, S.R. Levine, E.J. Opila, M.C. Halbig, J.D. Kiser, M. Singh and J.A. Salem, J. European Ceram. Soc. 22 [14-15] (2002) 2757-2769.
9. ASTM C 1368-01 “Determination of Slow Crack Growth Parameters of Advanced Ceramics by Constant Stress Rate Testing,” Primary authors S.R. Choi and J.A Salem under jurisdiction of

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10. ASTM C 1499-01 "Determination of Monotonic Biaxial Flexural Strength Advanced Ceramics," primary authors J.A. Salem and L.M. Powers, under jurisdiction of ASTM C28 on Advanced Ceramics, in Annual Book of ASTM Standards, V. 15.01, pp. 779-788, American Society for Testing and Materials, West Conshohocken, Pennsylvania (2002).

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12. "Estimating Standard Deviations of Fatigue Parameters For Ceramics Exhibiting Slow Crack Growth," J. A. Salem, M. J. Jenkins and D. Keller, *Journal Material Science Letters* 19, 2213-2214, (2000).
13. "The Analysis and Application of Back-Face Strain For Monitoring Stable Crack Extension In Flexure Test Specimens, J.A. Salem, L.J. Ghosn and M.G. Jenkins, In review for *J. Test and Eval.*, (2000).
14. ASTM C 1421-99 "Standard Test Method for the Determination of Fracture Toughness of Advanced Ceramics at Ambient Temperatures," Primary authors M.G. Jenkins, J.A. Salem and G.D. Quinn under jurisdiction of ASTM committee C 28 on Advanced Ceramics, in Annual Book of ASTM Standards, V. 15.01, pp. 631-662, American Society for Testing and Materials, West Conshohocken, Pennsylvania (2000).

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