

## ISOTHERMAL MICROCALORIMETRY PUBLICATIONS

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### REFEREED JOURNAL ARTICLES

Lewis G, Daniels AU (2003) (Review) Use of Isothermal Heat-Conduction Microcalorimetry (IHCMC) for the Evaluation of Synthetic Biomaterials, **J. Biomed. Materials Res.** 66B:487-501.

Charlebois SJ, Daniels AU, Lewis G (2003) Isothermal Microcalorimetry: An Analytical Technique for Assessing the Dynamic Chemical Stability of UHMWPE, **Biomaterials** 24: 291-296.

Hardison A, Lewis GW, Daniels AU (2003) Determination of the activation energies of and aggregate rates for exothermic physico-chemical changes in UHMWPE by isothermal heat-conduction microcalorimetry (IHCMC), **Biomaterials** 24(28):5145-5151

Charlebois SJ, Daniels AU, Smith RA (2002) Metabolic Heat Production as a Measure of Macrophage Response to Particles from Orthopaedic Implant Materials, **J. Biomed. Materials Res.** 59: 166-175

Daniels AU, Charlebois SJ, Lewis EA (1998) Isothermal Microcalorimetry: A New Tool for Biomaterials Research, **Medical Plastics & Biomaterials** 5(3):50-52.

### REFEREED ABSTRACTS

Daniels AU, Lewis G, Son Y, Wirz D, Göpfert B, Morscher EW (2003) Possible Differences in Long-Term Stability of Bone Cements, **62. Jahreskongress schweizerischen Gesellsch. Orthopädie**, Hauptprogram, p.54.

Smith RA, Charlebois SJ, Daniels AU, Lewis EA (2000) Isothermal Microcalorimetry Measures Heat of Phagocytosis in Mouse Macrophages, **Trans. 6th World Biomaterials Congr.**, p. 1252.

Daniels AU, Charlebois SJ, Johnson RA, Haggard WG, Jahan MS, Buncick MC (2000) Stability of Shelf-Stored and Clinically-Retrieved UHMWPE Determined by Isothermal Microcalorimetry, **Trans. 6th World Biomaterials Congr.**, p. 43.

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Daniels AU, Charlebois SJ, Grisoni BG, Haggard WO, Parr JE (1998) Predicted Storage Stability of Antibiotic-Loaded Calcium Sulfate Pellets by Isothermal Microcalorimetry. **Trans. Soc. for Biomaterials** 21:348.

Daniels AU, Charlebois SJ, Trieu HH, Haggard WO, Parr JE (1998) Post-Sterilization Dynamic Chemical Stability of UHMWPE by Isothermal Microcalorimetry. **Trans. Soc. for Biomaterials** 21:27.

Daniels AU, Charlebois SJ, Trieu HH, Haggard WO, Parr JE (1998) UHMWPE: Post-Sterilization Stability by Isothermal Microcalorimetry. **Trans. Orthopaedic Research Soc.** 23(1):101.

Daniels AU, Charlebois SJ, Smith RS, Watson WC (1998) Isothermal Microcalorimetry: A Versatile New Tool for Biomaterials Research. **Proc. 17th Annual Southern Biomedical Engineering Conf.**, p. 77.

Charlebois SJ, Daniels AU (1998) Determination of the Metabolic Response of Macrophages to Implant Wear Particles. **Trans. 53rd Ann. Calorimetry Conf.** Abs. #82.

Daniels AU, Smith RA, Lewis EA (1996): Implant Particle / Phagocyte Microcalorimetry: A New In-Vitro Method for Biocompatibility Screening. **Trans. 2nd World Congress on Alternatives & Animal Use in the Life Sciences**, published in *Alternatives to Laboratory Animals* 24:243.