## SelectedWorks of Debbie Chachra



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**EXPERTISE** 

Materials Science

## **ARTICLES**

The Long-Term Effects of Water Fluoridation on the Human Skeleton (with H. Limeback, T. Willett, and M. D. Grynpas), The Journal of Dental Research (2010)

Municipal water fluoridation has notably reduced the incidence of dental caries and is widely considered...

Outcomes of a Longitudinal Administration of the Persistence in Engineering Survey (with Ozgur Eris, Helen Chen, Sheri Sheppard, Larry Ludlow, Camelia Rosca, Tori Bailey, and George Toye), *Journal of Engineering Education* (2010)

BACKGROUND Understanding more about student decisions to leave engineering may lead to higher retention. This...

A New Tool to Assess the Mechanical Properties of Bone due to Collagen Degradation (with C. Wynnyckyj, S. Omelon, K. Savage, M. Damani, and M. D. Grynpas), Bone (2009)

Current clinical tools for evaluating fracture risk focus only on the mineral phase of bone....

Persistence, Engagement, and Migration in Engineering Programs (with Matthew W. Ohland, Sheri D. Sheppard, Gary Lichtenstein, Ozgur Eris, and Richard A. Layton), *Journal of Engineering Education* (2008)

Records from the Multiple-Institution Database for

Investigating Engineering Longitudinal Development indicate that engineering students are typical of...

Fluoride and Mineralized Tissues (with A. Vieira and M. D. Grynpas), Critical Reviews in Biomedical Engineering (2008)

This review focuses on the interaction of fluoride with the material properties of bone and...

Tensional Forces Influence Gene Expression and Sutural State of Rat Calvariae In Vitro (with S. S. Tholpady, T. F. Freyman, and R. C. Ogle), *Plastic and Reconstructive Surgery* (2007)

## **BACKGROUND:**

Theories regarding the cause of cranios ynostosis that are more than 15 years old cite...

**Bone Quality in Animal Models of Osteoporosis** (with M. D. Grynpas and Katheleen Lundon), *Drug Development Research* (2000)

The use of animal models is a very powerful tool for the preclinical assessment of...

Differential Effects of Ovariectomy on the Mechanical Properties of Cortical and Cancellous Bone in Rat Femora and Vertebrae (with J.M. Lee, M. Kasra, and M. D. Grynpas), *Biomedical Sciences Instrumentation* (2000)

The purpose of this study was to evaluate the effects of ovariectomy on the mechanical...

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