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Special Issue on Recent Developments of Orthopedic and Dental Implants

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[*ASME Journal of Engineering and Science in Medical Diagnostics and Therapy*](#)

Special Issue on Recent Developments of Orthopedic and Dental Implants

The goal of this Special Issue is to present an intriguing overview of current research in the field of orthopedic and dental biomechanics. Orthopedic and dental implants have been used and studied for many years for the replacement of missing functions due to traumas and age-related deficiencies. It has been well known that the success of orthopedic and dental implants is heavily dependent on biomechanical stability and long-term osseointegration due to optimal stress distribution in the surrounding bones. For this reason, the development of orthopedic and dental implants by searching for rational solutions to reduce these stresses has become an important issue in this field. Therefore, recent developments of implant design, materials development, manufacturing technology, and computational techniques can play a vital role in orthopedic and dental implantology.

Topic Areas

- Implants design
- Surface treatment on implants
- Fatigue failure of implants
- Bone resorption
- Corrosion and wear resistance of implants
- Stress shielding
- Bone cements

Publication Target Dates

Paper submission deadline	March 1, 2023
Initial review completed	June 1, 2023
Special Issue publication date	August 2023

Submission Instructions

Papers should be submitted electronically to the journal at journaltool.asme.org. If you already have an account, log in as an author to your ASME account. If you do not have an account, sign up for an account. In either case, at the **Paper Submittal** page, select the [*ASME Journal of Engineering and Science in Medical Diagnostics and Therapy*](#) and then select the Special Issue **Recent Developments of Orthopedic and Dental Implants**.

Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue.

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