Special Issue

Tribological Properties of Spark Plasma Sintered Materials

Message from the Guest Editor

It has been approximately 60 years since the spark plasma sintering (SPS) process was developed by Inoue et al. and approximately 30 years since its widespread use began. The SPS process allows sintering from around 100 °C to 2000 °C. Moreover, the heating and cooling rates of the SPS process are considerably higher than those of the conventional hot pressing and hot isostatic pressing processes. Therefore, the SPS process can be applied to many types of material, such as ceramics, alloys, intermetallics, resins, and their composite materials, with an extremely short sintering time compared with conventional sintering processes. Therefore, many types of tribomaterial, structural materials and functional materials have been developed using the SPS process. However, the information on the latest SPS-treated tribomaterials and their tribological properties has rarely been summarized and published in Special Issues of journals dealing with tribology. The intention of this Special Issue is to highlight the latest SPS-treated tribomaterials and their tribological properties,

Guest Editor

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Message from the Editor-in-Chief

Friction, wear, and lubrication are tribological phenomena that govern the behavior of interacting surfaces in a wide range of machine components. Understanding the physical and chemical nature of these phenomena is critical to achieving long component lifetime and economical operation. Research in the field of tribology is highly interdisciplinary, and encompasses the fields of physics, chemistry, engineering, and mathematical modeling. *Lubricants* invites contributions on new advances in all areas of tribology for publication as peer-reviewed research articles, reviews of current research, letters, and communications. We are committed to providing timely reviews of all articles submitted. Please consider sharing your work with the scientific community through publication in *Lubricants.*

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