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Acoustic Emission Techniques in Wear Monitoring

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2020)

Message from the Guest Editor

Dear Colleagues,

Acoustic emission (AE) is the emission of elastic stress waves resulting from the deformation and fracture of materials. During tribological processes, AE waves are generated by the deformation and fractures of material surfaces, and considerable information can be obtained by measuring them.

AE techniques have tremendous potential for in situ measurements of tribological characteristics. Furthermore, it is expected to be widely used as a tool to diagnose and evaluate wear phenomena that are very complex and changeable. However, to apply AE techniques to identify and evaluate tribological phenomena and their characteristics, relationships between AE signals and tribological phenomena must be fully understood.

In the Special Issue entitled "Acoustic Emission Techniques in Wear Monitoring", original papers focusing on wear monitoring by AE techniques for various tribo-materials and friction systems are welcomed. We hope that this Special Issue will be utilized to make breakthroughs in the evaluation and in situ measurement in the tribology field. We are looking forward to receiving your submission.

Prof. Dr. Alan Hase

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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Journal Rank: JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Mechanical Engineering)

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