



Advances in Ceramic-Based Lubricants

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Message from the Guest Editors

Ceramic materials have many excellent properties such as high strength, high hardness, high temperature resistance, corrosion resistance and light weight, making them valuable as surface coatings or monolithic components for use as motion components in harsh environments (high temperature, strong corrosion, etc.). However, ceramic materials also have some disadvantages as mechanical moving parts, such as relatively high coefficients of friction and wear rates. This Special Issue will highlight recent advances in ceramic-based lubricants. We invite 10 high-quality research papers about the lubrication methods, tribological properties and mechanisms of ceramic based materials. We expect these studies to provide advanced ceramic-based lubricating materials in the future to solve some of the harsh lubrication challenges.

