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Title: Preparation and antifrictional properties of surface modified hybrid fluorine-containing silica particles

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## Highlights

- ▶ Amorphous SiO<sub>2</sub> particles were prepared and modified by [(perfluorobutyl)methyl]oxirane and -thiirane.
- ▶ Covalent bonding was established between SiO<sub>2</sub> particles and the organic part.
- ▶ Friction coefficients of base oil with modified SiO<sub>2</sub> additives were estimated.

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