



Session information

Technical Session

Technical sessions » Advanced Tribology Material

Polymer 2

Fri. Sep 29, 2023 3:50 PM - 5:10 PM Room I (Room 413)

Yosuke Nishitani, Ruth Elisa Jackowiak

3:50 PM - 4:10 PM

[29-I-11] Structures of Lubricant Additives and Their Adsorption Characteristics That Improve the Frictional Properties of Polymers

*Rui Ogata¹, Yuta Tanaka¹, Akihiro Nagoya¹, Tasuku Onodera¹ (1. ENEOS Corporation, Japan)

Keywords:machine learning, molecular simulation, materials informatics, adsorption, polymer

4:10 PM - 4:30 PM

[29-I-12] Friction Reduction with Star Polymers

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Keywords:star polymers, additives, design, lubrication film, surface adhesion

4:30 PM - 4:50 PM

[29-I-13] Effects of High Purity Hydrogen Gas Environment on Friction and Wear of PTFE Composites under High Temperature and High Sliding Speed

Taisei Oka¹, *Yue He¹, Qian Chen¹, Takehiro Morita¹, Yoshinori Sawae¹
(1. Kyushu University, Japan)

Keywords:PTFE composite, hydrogen, PPS, carbon fiber, tribochemistry

4:50 PM - 5:10 PM

[29-I-14] Operando-Raman Observation for the Frictional Interface

Structure of Concentrated Polymer Brushes

*Hikaru Okubo¹, Daiki Kagiwata², Shinya Sasaki³, Yoshinobu Tsujii³, Ken Nakano¹

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Keywords: polymer brush, Superlubricity, Wear, Operando, Raman