You should select from the following keyword when submitting a manuscript to Tribology Letters. If you have any questions or comments about the keywords, please contact Nic Spencer (nicholas.spencer@mat.ethz.ch).

Tribology Letters Keywords

Additives, Chemistry and Performance

- Additive Decomposition
- Additive Degradation
- Additive Depletion
- Additive Deposition
- Additive Interaction
- Additive Solubility
- Antifatigue Additives
- Antioxidants
- Antiwear Additives
- Biocides
- Corrosion/Rust Inhibitors
- Detergents
- Demulsifiers
- Dispersants
- Emulsifiers
- Extreme Pressure Additives
- Foam Control Additives
- Friction Modifiers
- Grease Thickeners
- Magnetic Particles
- Metal Passivators
- Pour Point Depressants
- Solid Lubricant Additives
- VI Improvers

Applied Tribology, by Type of Industry

- Aviation
- Agriculture
- Aluminum Industry
- Automotive
- Biotribology
- Cement Industry
- Economics
- Food Processing
- Forestry
- History of Tribology
- Magnetic Data Storage
- Marine
- Mining
- Oil Production
- Paper Manufacturing
- Petrochemical Industry

Power Generation
Railroad
Space
Steel Industry
Textile Manufacturing
Tribology Education

Base Stocks, Chemistry and Performance

Biodegradable Base Stocks
Cryogenic Fluids
Fire-Resistant Base Stocks
Fluorocarbons
Food-Grade Base Stocks
Liquid Crystals
Mineral Base Stock Refining
Mineral Base Stocks
Organic Esters
Phosphate Esters
Phosphazenes
Polyethers
Polyglycols
Silicate Esters
Silicones
Synthetic Base Stocks
Synthetic Hydrocarbons
Vegetable Oils

Boundary Lubrication and Nanotribology

Boundary Lubrication Friction (see also, Friction)
Boundary Lubrication Chemistry
Boundary Lubrication (General)
Boundary Lubrication Test Methods
Boundary Lubrication Thermal Effects
Boundary Lubrication Wear (see also, Wear)
Nanotribology

Component and Machine Tribology

Centrifugal Gas Compressors
Centrifugal Hydraulic Pumps
Compressors (General)
Couplings - see Gears, Couplings, Etc.
Electrical Equipment
Engines - see Engine Tribology
Gas Turbines - see Engine Tribology
Gear Hydraulic Pumps
Gears - see Gears, Couplings, etc.
Human Joints, Replacements
Hydraulic Drives
Hydraulic Systems (General)
Hydraulic Valves
Hydrodynamic Bearings - See Hydrodynamic, etc.
Machine Tools

Magnetic Bearings
Magnetic Data Disks (Hard, Floppy)
Magnetic Data Tapes
Magnetic Data Recording Heads
MEMS Devices
Paper Machines
Piston Gas Compressors
Piston Hydraulic Pumps
Refrigerant Compressors
Rolling Bearings - see Rolling Element Bearings
Screw Gas Compressors
Slideways
Steam Turbines
Torque Converters
Valvetrains, Cams and Lifters
Vane Pumps

Computational and Math Methods for Tribology

Data Acquisition
Dynamic Modelling
Expert Systems
Fluid Mechanics Methods
Statistical Analysis
Tribology Databases

Contact Mechanics and Fatigue

Contact Mechanics
Fatigue Analysis
Fatigue Crack Propagation
Non-Contact Fatigue
Stress Analysis
Thermal Analysis

Elastohydrodynamic Lubrication (EHL)

Compliant Surface EHL
EHL Film Geometry
EHL (General)
EHL with Greases
EHL with Non-Newtonian Lubricants
Low Elastic Modulus EHL
Micro-EHL
Partial-EHL, Roughness Effects
Starvation in EHL
Thermal Effects in EHL
Traction

Engine Tribology

Diesel Engines
Gasoline Engines
Gas/Jet Turbines
Rocket Engines
Marine Diesel Engines

Natural Gas Engines

Friction and Energy Conservation

Adhesion, Stiction
Brakes
EHL Friction (Traction) - see EHL
Energy Conservation
Friction Mechanisms
Friction Test Methods
Hydrodynamic Friction
Rolling Friction
Self Lubrication Friction
Solid Lubrication Friction
Static Friction
Stick-Slip
Unlubricated Friction

Gears, Couplings, Transmissions

Automatic Transmissions
Belt Drives
Bevel Gears
Chain Drives
Clutches
Constant Velocity Joints
Continuously Variable Transmissions (CVT)
Epicyclic (Planetary) Gears
Friction Drives
Gear Couplings
Gears (General)
Helical Gears
Hypoid Gears
Open Gears
Rack and Pinion Gears
Splines
Spur Gears
Traction Drives (IVT)
Worm Gears

Hydrodynamic and Hydrostatic Lubrication and Bearings

Air Bearings
Air, Gas and Vapor in Hydrodynamics
Cavitation in Hydrodynamics
Compliant Surface Bearings
Compressibility in Hydrodynamics
Film Geometry in Hydrodynamics
Flow Rate in Hydrodynamics
Foil Bearings
Human Joint Hydrodynamics
Hydrodynamic Bearings (General)
Hydrodynamic Friction - see Friction
Hydrodynamic Lubrication (General)
Hydrostatic Bearings

Hydrostatic Lubrication
Inertia Effects in Hydrodynamics
Journal Bearings
Load-Carrying Capacity
Multi-Lobe Bearings
Non-Newtonian Effects in Hydrodynamics
Porous Metal Bearings
Roughness Effects in Hydrodynamics
Slideway Bearings
Squeeze-Film Dampers
Squeeze-Film Lubrication
Stability in Hydrodynamics
Starvation in Hydrodynamics
Thermal Effects in Hydrodynamics
Tilting-Pad Bearings
Turbulent Flow in Hydrodynamics
Vapor Phase Lubrication
Viscoelasticity in Hydrodynamics

Lubricant Application and Disposal Methods

Aerosol Lubrication
Grease Application
Lubricant Circulation Systems
Lubricant Cleanup, Solvents
Lubricant Conservation
Lubricant Disposal
Lubricant Reclamation
Lubricant Recycling
Lubricant Rerefining
Lubricant Storage
Lubricant Waste
Lubrication Scheduling
Mist Lubrication
Oil Bath Lubrication
Pollution
Splash Lubrication
Spray Lubrication
Vapor Phase Lubrication
Wick, Ring, Disc Lubrication

Lubricant and Grease Formulation and Performance

Automatic Transmission Fluids
Biodegradable Oils
Circulating Oils
Compressor Oils
Coupling Lubricants
Cryogenic Lubricants
Diesel Engine Oils
Ferrofluids
Fire-Resistant Fluids
Food-Grade Lubricants
Gas Turbine Oils

Gasoline Engine Oils
Gear Lubricants
Greases
Hydraulic Fluids
Internal Combustion Engine Oils
Jet Engine Oils
Lubricant Blending and Manufacture
Lubricant Marketing
Metalworking Fluids - see Metalworking, etc.
Natural Gas Engine Oils
Paper Machine Oils
Process Fluids
Radiation Resistant Lubricants
Refrigeration Oils
Screw Thread Lubricants
Spindle Oils
Steam Turbine Oils
Traction Fluids
Vapor Phase Lubricants
Water, Water-Based
Way Oils

Lubricant Properties, Chemical Analysis

Acidity
Basicity
DSC
Ferrography
Fluorescence
Fuel Dilution
Gas Chromatography
Hydrolytic Stability
Infra Red
Liquid Chromatography
NMR
Oxidation Resistance
Radiation Resistance
Spectroscopy
TGA
Thermal Stability
Voltametric

Lubricant Properties, Physical Analysis

Air Release
Bulk Modulus
Demulsibility
Density
Electrical and Magnetic Properties
Electrorheological Behavior
Emulsivity
Flash and Fire Point
Foaming
Gas Solubility

Heat Capacity
Low Temperature
Non-Newtonian Behavior
Pour Point
Rheology
Surface Tension
Thermal Conductivity
Traction, Shear Strength
Vapor Pressure, Volatility
Viscoelasticity
Viscosity
Viscosity-Pressure
Viscosity-Temperature

Maintenance, Monitoring and Lubricant Problems

Chemical Contamination
Cleanliness
Computer Use in Maintenance
Equipment Monitoring
Failure Analysis
Filtration
Humidity
Hydrolysis
Incompatible Fluids
Life Prediction Methods
Lubricant Degradation
Maintenance
Oil Condition Monitoring
Oxidative Degradation
Particulates
Water Contamination

Materials in Tribology (Solids)

Aluminum
Beryllium
Borides
Carbon, Graphite
Carbides
Ceramic Composite
Ceramics
Chromium
Cobalt
Copper
Diamond
Elastomers
Ferrous Alloys, Steel
Gallium
Glass
Gold
Iron
Lead
Molybdenum

Nickel
Nitrides
Non-Ferrous Alloys
Oxides
Polymers (solid)
Powder Metals
Self-Lubricating Composites
Silicon
Silver
Tin
Titanium
Tungsten

Metalworking and Metalworking Fluids

Boring
Casting
Cutting
Cutting Fluids
Drawing Fluids
Drawing, Extruding
Finishing
Forging
Forging Fluids
Forming
Grinding
Grinding Fluids
Honing
Jet Cutting
Lapping
Milling
Polishing
Quenching Fluids
Rolling
Rolling Fluids
Tapping
Turning

Rolling Element Bearings

Ball Bearings
Ball Screw
Cylindrical Roller Bearings
Linear Rolling Bearings
Needle Roller Bearings
Precision Rolling Bearings
Rolling Element Bearings, General
Rolling Element Bearing Noise
Spherical Roller Bearings
Tapered Roller Bearings

Seals and Sealing Technology

Bellows
Brush Seals

Elastomeric Seals
Elastomeric Static Seals
Face Seals
Gaskets
Labyrinth Seals
Lip Seals
Magnetic Seals
Mechanical Seals
O-Rings
Packing Seals
Piston Rings
Reciprocating Seals
Rod Seals
Rotary Seals
Sealants
Static Seals
Two-Phase Seals
Viscoseals

Solid and Self Lubrication

Graphite
Jewel Bearings
Molybdenum Disulfide
PTFE
Self Lubrication
Self Lubrication Friction - see Friction
Self Lubricating Bearings
Solid Lubricants
Solid Lubricated Bearings
Solid Lubrication
Solid Lubrication Film Thickness
Solid Lubrication Friction--see Friction
Solid Lubrication Mechanisms
Solid Lubrication Wear--see Wear
Spherical (pivot) Bearings

Surface Technology and Analysis

Additive-Deposited Films
AES(Auger)
AFM
Annealing
Barrier Films
Carburizing
Chemical Analytical Techniques
Coatings, Friction-Reducing
Coatings, Wear-Resistant
Corrosion
Dynamic Light Scattering
EDS
EDXRF
EELS
EPMA

ESCA
EXAFS
FTIR
Hardening
Hardness
Hydrodynamics, Roughness Effects - see Hydrodynamics
Ion Implantation
Metallurgical Analysis
Mossbauer
Nitriding
Optical Microscopy
Partial-EHL, Roughness Effects - see EHL
Raman
RBS
Running-In
SEM
SIMS
STM
Surface Energy
Surface Modification
Surface Roughness
Surface Roughness Analysis and Models
Surface Roughness Measurement Methods
TDS
TEM
XANES
XPS
XRD

Toxicology and Hygiene

Food Contact
Hygiene
Lubricant Microbial Degradation
Safety
Toxicology

Wear and Failure

Abrasive Wear
Adhesive Wear
Bench Wear Tests
Cavitation Erosion
Corrosive Wear
Delamination Wear
Electrical Erosive Wear
Equipment Wear Tests
Erosive Wear
Fatigue
Fretting
Galling
Impact Wear
Oxidative Wear
Rolling-Contact Fatigue

Scoring, Scuffing
Self-Lubricated Wear
Solid Lubricated Wear
Triboemission
Unlubricated Wear
Wear Mechanisms
Wear Particle Analysis
Wear/Failure Testing Devices

Other

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