

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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