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
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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