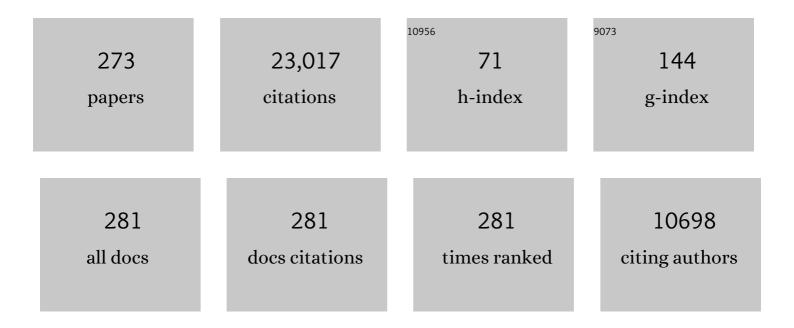
List of Publications by Year in descending order

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Δι Δ° Ερηεμά^ορ

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Effect of different irrigation activation techniques on irrigation penetration into the simulated lateral canals. Odontology / the Society of the Nippon Dental University, 2023, 111, 132-141. | 0.9 | 5 |
| 2 | Editorial: 2D-Layered Nanomaterials: Chemical Functionalization, Advanced Characterization, and Tribological Properties. Frontiers in Chemistry, 2022, 10, 840213. | 1.8 | 3 |
| 3 | Diamond-like carbon films and their superlubricity. , 2021, , 215-230. | | 4 |
| 4 | Robust Interfacial Tribofilms by Borate- and Polymer-Coated ZnO Nanoparticles Leading to Improved Wear Protection under a Boundary Lubrication Regime. Langmuir, 2021, 37, 1743-1759. | 1.6 | 15 |
| 5 | Tribological Interaction of Plasma-Functionalized CaCO3 Nanoparticles with Zinc and Ashless Dithiophosphate Additives. Tribology Letters, 2021, 69, 1. | 1.2 | 5 |
| 6 | XANES Study of Tribofilm Formation With Low Phosphorus Additive Mixtures of Phosphonium Ionic Liquid and Borate Ester. Frontiers in Mechanical Engineering, 2021, 7, . | 0.8 | 3 |
| 7 | Synthetic Lubricants Derived from Plastic Waste and their Tribological Performance. ChemSusChem, 2021, 14, 4181-4189. | 3.6 | 25 |
| 8 | Tribochemistry of fluorinated ZnO nanoparticles and ZDDP lubricated interface and implications for enhanced anti-wear performance at boundary lubricated contacts. Wear, 2021, 474-475, 203717. | 1.5 | 15 |
| 9 | The effect of different irrigation solutions and activation techniques on the expression of growth factors from dentine of extracted premolar teeth. International Endodontic Journal, 2021, 54, 1915-1924. | 2.3 | 12 |
| 10 | Achieving Ultralow Friction and Wear by Tribocatalysis: Enabled by <i>In-Operando</i> Formation of Nanocarbon Films. ACS Nano, 2021, 15, 18865-18879. | 7.3 | 42 |
| 11 | Effect of solvent use on postoperative pain in root canal retreatment: a randomized, controlled clinical trial. Clinical Oral Investigations, 2020, 24, 257-263. | 1.4 | 8 |
| 12 | Catalytically Active Oil-Based Lubricant Additives Enabled by Calcining Ni–Al Layered Double Hydroxides. Journal of Physical Chemistry Letters, 2020, 11, 113-120. | 2.1 | 31 |
| 13 | Tribochemical Conversion of Methane to Graphene and Other Carbon Nanostructures: Implications for Friction and Wear. ACS Applied Nano Materials, 2020, 3, 8060-8067. | 2.4 | 32 |
| 14 | Comparison of dentin penetration ability of different root canal sealers used with different obturation methods. Microscopy Research and Technique, 2020, 83, 1544-1551. | 1.2 | 5 |
| 15 | Comparison of Neurokinin A, Substance P, Interleukin 8, and Matrix Metalloproteinase-8 Changes in Pulp tissue and Gingival Crevicular Fluid Samples of Healthy and Symptomatic Irreversible Pulpitis Teeth. Journal of Endodontics, 2020, 46, 1428-1437. | 1.4 | 19 |
| 16 | Mechanism of Superlubricity Conversion with Polyalkylene Glycol Aqueous Solutions. Langmuir, 2019, 35, 11784-11790. | 1.6 | 22 |
| 17 | Ironâ€Nanoparticle Driven Tribochemistry Leading to Superlubric Sliding Interfaces. Advanced Materials Interfaces, 2019, 6, 1901416. | 1.9 | 41 |
| 18 | Interaction of plasma functionalized TiO2 nanoparticles and ZDDP on friction and wear under boundary lubrication. Applied Surface Science, 2019, 489, 372-383. | 3.1 | 24 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Superlubricity of Polyalkylene Glycol Aqueous Solutions Enabled by Ultrathin Layered Double Hydroxide Nanosheets. ACS Applied Materials & Interfaces, 2019, 11, 20249-20256. | 4.0 | 62 |
| 20 | Antiwear Properties of Binary Ashless Blend of Phosphonium Ionic Liquids and Borate Esters in Partially Formulated Oil (No Zn). Tribology Letters, 2019, 67, 1. | 1.2 | 13 |
| 21 | The impact of tribology on energy use and CO2 emission globally and in combustion engine and electric cars. Tribology International, 2019, 135, 389-396. | 3.0 | 335 |
| 22 | Graphene - MoS2 ensembles to reduce friction and wear in DLC-Steel contacts. Carbon, 2019, 146, 524-527. | 5.4 | 108 |
| 23 | Tribology of two-dimensional materials: From mechanisms to modulating strategies. Materials Today, 2019, 26, 67-86. | 8.3 | 250 |
| 24 | Approaches for Achieving Superlubricity in Two-Dimensional Materials. ACS Nano, 2018, 12, 2122-2137. | 7.3 | 364 |
| 25 | Superlubricity: Friction's vanishing act. Physics Today, 2018, 71, 40-46. | 0.3 | 73 |
| 26 | Friction and Wear Reduction Mechanism of Polyalkylene Glycol-Based Engine Oils. Tribology Transactions, 2018, 61, 621-631. | 1.1 | 10 |
| 27 | High-Performance Heterocyclic Friction Modifiers for Boundary Lubrication. Tribology Letters, 2018, 66, 1. | 1.2 | 14 |
| 28 | Operando tribochemical formation of onion-like-carbon leads to macroscale superlubricity. Nature Communications, 2018, 9, 1164. | 5.8 | 199 |
| 29 | Superior wear resistance of diamond and DLC coatings. Current Opinion in Solid State and Materials Science, 2018, 22, 243-254. | 5.6 | 105 |
| 30 | Effect of several laser systems on removal of smear layer with a variety of irrigation solutions. Microscopy Research and Technique, 2018, 81, 1214-1222. | 1.2 | 18 |
| 31 | Acid Treatment of Diamond-Like Carbon Surfaces for Enhanced Adsorption of Friction Modifiers and Friction Performance. Tribology Letters, 2018, 66, 1. | 1.2 | 8 |
| 32 | Effect of the addition of Si into V2O5 coatings: Structure and tribo-mechanical properties. Surface and Coatings Technology, 2018, 349, 111-118. | 2.2 | 10 |
| 33 | Operando formation of an ultra-low friction boundary film from synthetic magnesium silicon hydroxide additive. Tribology International, 2017, 110, 35-40. | 3.0 | 53 |
| 34 | Investigation of Shear-Thinning Behavior on Film Thickness and Friction Coefficient of Polyalphaolefin Base Fluids With Varying Olefin Copolymer Content. Journal of Tribology, 2017, 139, . | 1.0 | 5 |
| 35 | Tribological performance of quaternary CrSiCN coatings under dry and lubricated conditions. Wear, 2017, 376-377, 1682-1690. | 1.5 | 9 |
| 36 | Global energy consumption due to friction and wear in the mining industry. Tribology International, 2017, 115, 116-139. | 3.0 | 294 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Investigation of Nano-Mechanical and- Tribological Properties of Hydrogenated Diamond Like Carbon (DLC) Coatings. Journal of Mechanics, 2017, 33, 769-776. | 0.7 | 14 |
| 38 | Influence of tribology on global energy consumption, costs and emissions. Friction, 2017, 5, 263-284. | 3.4 | 1,114 |
| 39 | Tribological Behavior of NiAl-Layered Double Hydroxide Nanoplatelets as Oil-Based Lubricant Additives. ACS Applied Materials & Interfaces, 2017, 9, 30891-30899. | 4.0 | 59 |
| 40 | Plasma-Functionalized Polytetrafluoroethylene Nanoparticles for Improved Wear in Lubricated Contact. ACS Applied Materials & Interfaces, 2017, 9, 25631-25641. | 4.0 | 28 |
| 41 | Ultralow Friction of ZrO2 Ball Sliding against DLC Films under Various Environments. Applied Sciences (Switzerland), 2017, 7, 938. | 1.3 | 15 |
| 42 | Tribological Behavior of Oil-Lubricated Laser Textured Steel Surfaces in Conformal Flat and Non-Conformal Contacts. Materials Performance and Characterization, 2017, 6, MPC20160013. | 0.2 | 7 |
| 43 | Tribochemistry of Carbon Films in Oxygen and Humid Environments: Oxidative Wear and Galvanic Corrosion. Langmuir, 2016, 32, 1996-2004. | 1.6 | 39 |
| 44 | Influence of tribofilm on superlubricity of highly-hydrogenated amorphous carbon films in inert gaseous environments. Science China Technological Sciences, 2016, 59, 1795-1803. | 2.0 | 20 |
| 45 | Carbon-based tribofilms from lubricating oils. Nature, 2016, 536, 67-71. | 13.7 | 370 |
| 46 | Silane Treatment of Diamond-Like Carbon: Improvement of Hydrophobicity, Oleophobicity, and Humidity Tolerance of Friction. Tribology Letters, 2016, 63, 1. | 1.2 | 2 |
| 47 | Interaction of phosphonium ionic liquids with borate esters at tribological interfaces. RSC Advances, 2016, 6, 53148-53161. | 1.7 | 21 |
| 48 | Fatigue resistant carbon coatings for rolling/sliding contacts. Tribology International, 2016, 98, 172-178. | 3.0 | 29 |
| 49 | Energy Consumption Due to Friction in Motored Vehicles and Low-Friction Coatings to Reduce It. , 2015, , 1-23. | | 6 |
| 50 | Effect of different irrigant activation protocols on push-out bond strength. Lasers in Medical Science, 2015, 30, 2143-2149. | 1.0 | 31 |
| 51 | Compositionally graded SiCu thin film anode by magnetron sputtering for lithium ion battery. Thin Solid Films, 2015, 596, 190-197. | 0.8 | 15 |
| 52 | Electrochemical boriding of molybdenum in molten borax. Surface Engineering, 2015, 31, 575-580. | 1.1 | 9 |
| 53 | Comparison of different irrigation activation techniques on smear layer removal: An in vitro study. Microscopy Research and Technique, 2015, 78, 230-239. | 1.2 | 37 |
| 54 | Surface Structure of Hydrogenated Diamond-like Carbon: Origin of Run-In Behavior Prior to Superlubricious Interfacial Shear. Langmuir, 2015, 31, 1711-1721. | 1.6 | 61 |

| 155Macroscale superlubricity enabled by graphene nanoscroll formation. Science, 2015, 348, 1118-1122.6.06.65156Synthesis and Tribology of Micro-Carbon Sphere Additives for Enhanced Lubrication. Tribology1.122167Nanoscale friction properties of graphene and graphene oxide. Diamond and Related Materials, 2015, 58, 474-480.1.81.03158Superlubricity of the DLC films-related friction system at elevated temperature. RSC Advances, 2015, 51, 1.71.51.755159An analytical study of tribofilms generated by the interaction of ashless antiwear additives with tetters, 2014, 105.3.03.8160Graphene as a protective coating and superior lubricant for electrical contacts. Applied Physics1.51.5161Structured SiCu thin films in LIB as anodes. Thin Solid Films, 2014, 572, 134-141.0.81.11162Nano-texture for a wear-resistant and near-frictionless diamond-like carbon. Carbon, 2014, 73, 403-412.5.43.70163Graphene: a new emerging lubricant. Materials Today, 2014, 17, 31-42.8.31.11164Schehene: a new emerging lubricant. Materials Today, 2014, 17, 31-42.3.00340165Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer. Advanced Functional Materials, 2014, 24, 6640-6646.7.82.61165Bipolar Tribocharging Signal During Friction Force Fluctuations at Metal&Cinsulator Interfaces.7.23.0166Bipolar Tribocharging Signal During Friction Force Fluctuations at Metal&Cinsulator Interfaces.7.23.0167Structured Frinche-Internation | # | Article | IF | CITATIONS |
|---|----|---|-------------|---------------|
| 30 Transactions, 2015, 58, 474480. 11 22 57 Nanoscale friction properties of graphene and graphene oxide. Diamond and Related Materials, 2015, 54, 91-96. 1.8 108 58 Superlubricity of the DLC films-related friction system at elevated temperature. RSC Advances, 2015, 5, 93147-93154. 1.7 55 59 An analytical study of tribofilms generated by the interaction of ashless antiwear additives with 2DDP using XANES and nano-indentation. Tribology International, 2015, 82, 43-57. 3.0 38 60 Graphene as a protective coating and superior lubricant for electrical contacts. Applied Physics 1.5 75 61 Structured SiCu thin films in LIB as anodes. Thin Solid Films, 2014, 572, 134-141. 0.8 11 62 Nano-texture for a wear-resistant and near-frictionless diamond-like carbon. Carbon, 2014, 73, 403-412. 5.4 38 63 Graphene: a new emerging lubricant. Materials Today, 2014, 17, 31-42. 8.3 1.115 64 Schole energy consumption due to friction in trucks and buses. Tribology International, 2014, 78, 94-114. 3.0 340 65 Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer. Advanced Functional Materials, 2014, 24, 6640-6646. 7.8 251 66 Bipolar Tribocharging Signal During Friction Force Fluctuations at Metal&E ⁴ | 55 | Macroscale superlubricity enabled by graphene nanoscroll formation. Science, 2015, 348, 1118-1122. | 6.0 | 665 |
| 54, 91-96. 118 108 58 Superlubricity of the DLC films-related friction system at elevated temperature. RSC Advances, 2015, 5, 93147-93154. 1.7 55 59 An analytical study of tribofilms generated by the interaction of ashless antiwear additives with 20DP using XANES and nano-indentation. Tribology International, 2015, 82, 43-57. 3.0 38 60 Craphene as a protective coating and superior lubricant for electrical contacts. Applied Physics 1.5 75 61 Structured SiCu thin films in LiB as anodes. Thin Solid Films, 2014, 572, 134-141. 0.8 11 62 Nano-texture for a wear-resistant and near-frictionless diamond-like carbon. Carbon, 2014, 73, 403-412. 5.4 38 63 Graphene: a new emerging lubricant. Materials Today, 2014, 17, 31-42. 8.3 1,115 64 Global energy consumption due to friction in trucks and buses. Tribology International, 2014, 78, 94-114. 3.0 340 65 Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer. Advanced Functional 7.8 251 66 Bipolar Tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246. 7.2 30 67 Effect of tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246. 5.4 | 56 | Synthesis and Tribology of Micro-Carbon Sphere Additives for Enhanced Lubrication. Tribology Transactions, 2015, 58, 474-480. | 1.1 | 22 |
| 38 93147-93154. 1.7 53 59 An analytical study of tribofilms generated by the interaction of ashless antiwear additives with 3.0 38 50 An analytical study of tribofilms generated by the interaction of ashless antiwear additives with 3.0 38 60 Craphene as a protective coating and superior lubricant for electrical contacts. Applied Physics 1.5 75 61 Structured SICu thin films in LIB as anodes. Thin Solid Films, 2014, 572, 134-141. 0.8 11 62 Nano-texture for a wear-resistant and near-frictionless diamond-like carbon. Carbon, 2014, 73, 403-412. 5.4 38 63 Graphene: a new emerging lubricant. Materials Today, 2014, 17, 31-42. 8.3 1,115 64 Global energy consumption due to friction in trucks and buses. Tribology International, 2014, 78, 94-114. 3.0 340 65 Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer. Advanced Functional 7.8 251 66 Bipolar Tribocharging Signal During Friction Force Fluctuations at MetaläC ^{en} Insulator Interfaces. 7.2 30 67 Effect of tibochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2.2 52 68 Achieving superlubricity in DLC films by controlling bulk, surface, | 57 | Nanoscale friction properties of graphene and graphene oxide. Diamond and Related Materials, 2015, 54, 91-96. | 1.8 | 108 |
| 30ZDDP using XANES and nano-indentation. Tribology International, 2015, 82, 43-57.303860Graphene as a protective coating and superior lubricant for electrical contacts. Applied Physics1.57561Structured SiCu thin films in LiB as anodes. Thin Solid Films, 2014, 572, 134-141.0.81162Nano-texture for a wear-resistant and near-frictionless diamond-like carbon. Carbon, 2014, 73, 403-412.5.43863Graphene: a new emerging lubricant. Materials Today, 2014, 17, 31-42.8.31,11564Global energy consumption due to friction in trucks and buses. Tribology International, 2014, 78, 94-114.3.034065Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer. Advanced Functional Materials, 2014, 24, 6640-6646.7.825166Bipolar Tribocharging Signal During Friction Force Fluctuations at Metalä6 ^{cr} Insulator Interfaces. Angewandte Chemie - International Edition, 2014, 53, 12101-12105.7.23067Effect of tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246.2.25268Achieving superlubricity in DLC films by controlling bulk, surface, and tribochemistry. Friction, 2014, 2014, 2424143 | 58 | | 1.7 | 55 |
| 60Letters, 2014, 105, .1.37.361Structured SiCu thin films in LIB as anodes. Thin Solid Films, 2014, 572, 134-141.0.81162Nano-texture for a wear-resistant and near-frictionless diamond-like carbon. Carbon, 2014, 73, 403-412.5.43863Graphene: a new emerging lubricant. Materials Today, 2014, 17, 31-42.8.31,11564Global energy consumption due to friction in trucks and buses. Tribology International, 2014, 78, 94-114.3.034065Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer. Advanced Functional Materials, 2014, 24, 6640-6646.7.825166Bipolar Tribocharging Signal During Friction Force Fluctuations at Metal&C"Insulator Interfaces. Angewandte Chemie - International Edition, 2014, 53, 12101-12105.7.23067Effect of tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246.2.25268Achieving superlubricity in DLC films by controlling bulk, surface, and tribochemistry. Friction, 2014, | 59 | | 3.0 | 38 |
| 62Nano-texture for a wear-resistant and near-frictionless diamond-like carbon. Carbon, 2014, 73, 403-412.5.43863Graphene: a new emerging lubricant. Materials Today, 2014, 17, 31-42.8.31,11564Global energy consumption due to friction in trucks and buses. Tribology International, 2014, 78, 94-114.3.034065Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer. Advanced Functional Materials, 2014, 24, 6640-6646.7.825166Bipolar Tribocharging Signal During Friction Force Fluctuations at Metal–Insulator Interfaces. Angewandte Chemie - International Edition, 2014, 53, 12101-12105.7.23067Effect of tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246.2.25268Achieving superlubricity in DLC films by controlling bulk, surface, and tribochemistry. Friction, 2014, 1423.4142 | 60 | | 1.5 | 75 |
| 63Graphene: a new emerging lubricant. Materials Today, 2014, 17, 31-42.8.31,11564Global energy consumption due to friction in trucks and buses. Tribology International, 2014, 78, 94-114.3.034065Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer. Advanced Functional Materials, 2014, 24, 6640-6646.7.825166Bipolar Tribocharging Signal During Friction Force Fluctuations at Metala€"Insulator Interfaces. Angewandte Chemie - International Edition, 2014, 53, 12101-12105.7.23067Effect of tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246.2.25268Achieving superlubricity in DLC films by controlling bulk, surface, and tribochemistry. Friction, 2014, 4, 843.4142 | 61 | Structured SiCu thin films in LiB as anodes. Thin Solid Films, 2014, 572, 134-141. | 0.8 | 11 |
| 64Global energy consumption due to friction in trucks and buses. Tribology International, 2014, 78, 94-114.3.034065Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer. Advanced Functional Materials, 2014, 24, 6640-6646.7.825166Bipolar Tribocharging Signal During Friction Force Fluctuations at Metal–Insulator Interfaces. Angewandte Chemie - International Edition, 2014, 53, 12101-12105.7.23067Effect of tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246.2.25268Achieving superlubricity in DLC films by controlling bulk, surface, and tribochemistry. Friction, 2014, 3.43.4142 | 62 | Nano-texture for a wear-resistant and near-frictionless diamond-like carbon. Carbon, 2014, 73, 403-412. | 5.4 | 38 |
| 6494-114.3.034065Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer. Advanced Functional Materials, 2014, 24, 6640-6646.7.825166Bipolar Tribocharging Signal During Friction Force Fluctuations at Metal–Insulator Interfaces. Angewandte Chemie - International Edition, 2014, 53, 12101-12105.7.23067Effect of tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246.2.25268Achieving superlubricity in DLC films by controlling bulk, surface, and tribochemistry. Friction, 2014, 3.43.4143 | 63 | Graphene: a new emerging lubricant. Materials Today, 2014, 17, 31-42. | 8.3 | 1,115 |
| 65Materials, 2014, 24, 6640-6646.7.825166Bipolar Tribocharging Signal During Friction Force Fluctuations at Metal–Insulator Interfaces. Angewandte Chemie - International Edition, 2014, 53, 12101-12105.7.23067Effect of tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246.2.25268Achieving superlubricity in DLC films by controlling bulk, surface, and tribochemistry. Friction, 2014, 3.43.4142 | 64 | Global energy consumption due to friction in trucks and buses. Tribology International, 2014, 78, 94-114. | 3.0 | 340 |
| 66 Angewandte Chemie - International Edition, 2014, 53, 12101-12105. 7.2 30 67 Effect of tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246. 2.2 52 68 Achieving superlubricity in DLC films by controlling bulk, surface, and tribochemistry. Friction, 2014, 34 142 | 65 | | 7.8 | 251 |
| 67 2014, 257, 241-246. 2.2 52 68 Achieving superlubricity in DLC films by controlling bulk, surface, and tribochemistry. Friction, 2014, 3.4 142 | 66 | Bipolar Tribocharging Signal During Friction Force Fluctuations at Metal–Insulator Interfaces. Angewandte Chemie - International Edition, 2014, 53, 12101-12105. | 7.2 | 30 |
| | 67 | Effect of tribochemistry on lubricity of DLC films in hydrogen. Surface and Coatings Technology, 2014, 257, 241-246. | 2.2 | 52 |
| | 68 | | 3.4 | 142 |
| 69Guest editorial: Special issue on superlubricity. Friction, 2014, 2, 93-94.3.44 | 69 | Guest editorial: Special issue on superlubricity. Friction, 2014, 2, 93-94. | 3.4 | 4 |
| Graphene: Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlocl | 70 | Graphene: Extraordinary Macroscale Wear Resistance of One Atom Thick Graphene Layer (Adv. Funct.) Tj ETQqO | 0 0 rgBT // | Overlock 10 1 |

| 71 | Effect of microstructure and thickness on the friction and wear behavior of CrN coatings. Wear, 2013, 302, 963-971. | 1.5 | 66 |
|----|---|-----|----|
| 72 | Evaluation of electrochemical boriding of Inconel 600. Surface and Coatings Technology, 2013, 215, 452-459. | 2.2 | 60 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Effects of Nanoscale Surface Texture and Lubricant Molecular Structure on Boundary Lubrication in Liquid. Langmuir, 2013, 29, 13419-13426. | 1.6 | 35 |
| 74 | Extreme Pressure Lubricant Additives Interacting on the Surface of Steel- and Tungsten Carbide–Doped Diamond-Like Carbon. Tribology Transactions, 2013, 56, 623-629. | 1.1 | 18 |
| 75 | Tribological Performance of EP Lubricants with Phosphorus-Based Additives. Tribology Transactions, 2013, 56, 645-651. | 1.1 | 23 |
| 76 | Direct Observation of Tribochemically Assisted Wear on Diamond-Like Carbon Thin Films. Tribology Letters, 2013, 49, 351-356. | 1.2 | 19 |
| 77 | Material wear and fatigue in wind turbine Systems. Wear, 2013, 302, 1583-1591. | 1.5 | 139 |
| 78 | Reduced wear and friction enabled by graphene layers on sliding steel surfaces in dry nitrogen. Carbon, 2013, 59, 167-175. | 5.4 | 417 |
| 79 | Few layer graphene to reduce wear and friction on sliding steel surfaces. Carbon, 2013, 54, 454-459. | 5.4 | 607 |
| 80 | A Three-Dimensional Inverse Finite Element Analysis of the Heel Pad. Journal of Biomechanical Engineering, 2012, 134, 031002. | 0.6 | 22 |
| 81 | Friction reducing properties of onion-like carbon based lubricant under high contact pressure. Tribology - Materials, Surfaces and Interfaces, 2012, 6, 116-120. | 0.6 | 19 |
| 82 | Effect of surfactant on tribological performance and tribochemistry of boric acid based colloidal lubricants. Tribology - Materials, Surfaces and Interfaces, 2012, 6, 134-141. | 0.6 | 14 |
| 83 | Tribological Properties of Nanodiamond-Epoxy Composites. Tribology Letters, 2012, 47, 195-202. | 1.2 | 72 |
| 84 | Global energy consumption due to friction in passenger cars. Tribology International, 2012, 47, 221-234. | 3.0 | 1,156 |
| 85 | Fundamental understanding of the tribological and thermal behavior of Ag–MoS2 nanoparticle-based multi-component lubricating system. Wear, 2012, 288, 9-16. | 1.5 | 77 |
| 86 | Mandibular second premolar with four roots. European Journal of General Dentistry, 2012, 1, 54-57. | 0.1 | 1 |
| 87 | Quantification of sliding-induced phase transformation in N3FC diamond-like carbon films. Diamond and Related Materials, 2011, 20, 1143-1148. | 1.8 | 19 |
| 88 | Does chlorhexidine affect the shear bond strengths of orthodontic brackets?. Journal of Dental Sciences, 2011, 6, 76-81. | 1.2 | 3 |
| 89 | Understanding Run-In Behavior of Diamond-Like Carbon Friction and Preventing Diamond-Like Carbon Wear in Humid Air. Langmuir, 2011, 27, 12702-12708. | 1.6 | 82 |
| 90 | Comparison of hexahedral and tetrahedral elements in finite element analysis of the foot and footwear. Journal of Biomechanics, 2011, 44, 2337-2343. | 0.9 | 132 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Effect of different light sources in combination with a light-transmitting post on the degree of conversion of resin composite at different depths of simulated root canals. Dental Traumatology, 2011, 27, 195-198. | 0.8 | 8 |
| 92 | The growth of single Fe2B phase on low carbon steel via phase homogenization in electrochemical boriding (PHEB). Surface and Coatings Technology, 2011, 206, 2005-2011. | 2.2 | 70 |
| 93 | Electrochemical boriding and characterization of AISI D2 tool steel. Thin Solid Films, 2011, 520, 1582-1588. | 0.8 | 37 |
| 94 | Ultra-fast boriding of nickel aluminide. Thin Solid Films, 2011, 520, 1575-1581. | 0.8 | 25 |
| 95 | Friction and wear behaviour of boron based surface treatment and nano-particle lubricant additives for wind turbine gearbox applications. Wear, 2011, 271, 1754-1760. | 1.5 | 101 |
| 96 | Friction and wear behavior of laser textured surface under lubricated initial point contact. Wear, 2011, 271, 1719-1725. | 1.5 | 194 |
| 97 | Is Ultra-Low Friction Needed to Prevent Wear of Diamond-Like Carbon (DLC)? An Alcohol Vapor Lubrication Study for Stainless Steel/DLC Interface. Tribology Letters, 2011, 42, 285-291. | 1.2 | 32 |
| 98 | Kinetics of electrochemical boriding of low carbon steel. Applied Surface Science, 2011, 257, 6928-6934. | 3.1 | 88 |
| 99 | Quantification of oxygenated species on a diamond-like carbon (DLC) surface. Applied Surface Science, 2011, 257, 7633-7638. | 3.1 | 42 |
| 100 | Development of ultrananocrystalline diamond (UNCD) coatings for multipurpose mechanical pump seals. Wear, 2011, 270, 325-331. | 1.5 | 41 |
| 101 | Analysis of plastic deformation in diamond like carbon films–steel substrate system with tribological tests. Thin Solid Films, 2011, 519, 3203-3212. | 0.8 | 35 |
| 102 | MEMS lubrication with alcohol vapour. Tribology - Materials, Surfaces and Interfaces, 2010, 4, 109-114. | 0.6 | 0 |
| 103 | Electrochemical boriding of titanium for improved mechanical properties. Surface and Coatings Technology, 2010, 204, 3935-3939. | 2.2 | 74 |
| 104 | The effects of three different desensitizing agents on the shear bond strength of composite resin bonding agents. Journal of the Mechanical Behavior of Biomedical Materials, 2010, 3, 399-404. | 1.5 | 11 |
| 105 | Concurrent musculoskeletal dynamics and finite element analysis predicts altered gait patterns to reduce foot tissue loading. Journal of Biomechanics, 2010, 43, 2810-2815. | 0.9 | 65 |
| 106 | Influence of process duration on structure and chemistry of borided low carbon steel. Surface and Coatings Technology, 2010, 205, 1578-1583. | 2.2 | 32 |
| 107 | In situ TEM studies of tribo-induced bonding modifications in near-frictionless carbon films. Carbon, 2010, 48, 587-591. | 5.4 | 82 |
| 108 | Effects of Different Curing Units and Luting Agents on Push-out Bond Strength of Translucent Posts. Journal of Endodontics, 2010, 36, 1521-1525. | 1.4 | 42 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Nanocomposite Coatings for Severe Applications. , 2010, , 679-715. | | 11 |
| 110 | On the possible role of triboplasma in friction and wear of diamond-like carbon films in hydrogen-containing environments. Journal Physics D: Applied Physics, 2009, 42, 075307. | 1.3 | 47 |
| 111 | Temperature and Water Vapor Pressure Effects on the Friction Coefficient of Hydrogenated Diamondlike Carbon Films. Journal of Tribology, 2009, 131, . | 1.0 | 17 |
| 112 | Micro-to-nano triboactivity of hydrogenated DLC films. Journal Physics D: Applied Physics, 2009, 42, 085307. | 1.3 | 14 |
| 113 | Effects of Different Chlorhexidine Formulations on Shear Bond Strengths of Orthodontic Brackets. Angle Orthodontist, 2009, 79, 312-316. | 1.1 | 11 |
| 114 | 2008 ICMCTF preface. Thin Solid Films, 2008, 517, 1009-1010. | 0.8 | 0 |
| 115 | Effect of temporary filling materials on repair bond strengths of composite resins. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 86B, 303-309. | 1.6 | 6 |
| 116 | On the hydrogen lubrication mechanism(s) of DLC films: An imaging TOF-SIMS study. Surface and Coatings Technology, 2008, 203, 750-755. | 2.2 | 57 |
| 117 | TOF-SIMS and XPS characterization of diamond-like carbon films after tests in inert and oxidizing environments. Wear, 2008, 265, 244-254. | 1.5 | 57 |
| 118 | Comparative tribological behaviors of TiN, CrN and MoNCu nanocomposite coatings. Tribology International, 2008, 41, 49-59. | 3.0 | 155 |
| 119 | Tribological analysis of TiN and DLC coated contacts by 3D FEM modelling and stress simulation. Wear, 2008, 264, 877-884. | 1.5 | 56 |
| 120 | Accuracy of two electronic apex locators in primary teeth with and without apical resorption: a laboratory study. International Endodontic Journal, 2008, 41, 436-441. | 2.3 | 32 |
| 121 | New horizon in the tribology of diamondlike carbon films. Surface Engineering, 2008, 24, 399-401. | 1.1 | 15 |
| 122 | Carbon-hydrogen bonding in near-frictionless carbon. Applied Physics Letters, 2008, 93, . | 1.5 | 11 |
| 123 | Tribochemistry of Multiply Alkylated Cyclopentane Oils on Diamond-like Carbon (DLC) Coated Thrust Bearings. Journal of ASTM International, 2008, 5, 1-13. | 0.2 | 1 |
| 124 | Finite Element Modeling of the First Ray of the Foot: A Tool for the Design of Interventions. Journal of Biomechanical Engineering, 2007, 129, 750-756. | 0.6 | 42 |
| 125 | Complementary neutron and x-ray reflectivity studies of "near-frictionless―carbon films. Journal of Applied Physics, 2007, 101, 103538. | 1.1 | 6 |
| 126 | Complementary neutron and x-ray reflectivity studies of "near-frictionless―carbon films. Journal of Applied Physics, 2007, 101, 123516. | 1.1 | 0 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Superlubricity in Diamondlike Carbon Films. , 2007, , 253-271. | | 19 |
| 128 | Structural order in near-frictionless hydrogenated diamondlike carbon films probed at three length scales via transmission electron microscopy. Physical Review B, 2007, 75, . | 1.1 | 44 |
| 129 | Evaluation of DLC Coatings for Foil Bearing Applications. , 2007, , 5. | | 2 |
| 130 | Evaluation of pH and calcium ion release of Acroseal sealer in comparison with Apexit and Sealapex sealers. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2007, 103, e86-e91. | 1.6 | 36 |
| 131 | Top-surface characterization of a near frictionless carbon film. Diamond and Related Materials, 2007, 16, 209-215. | 1.8 | 39 |
| 132 | Microfabrication issues in constructing freestanding membranes of near-frictionless carbon and diamond-like films. Diamond and Related Materials, 2007, 16, 342-349. | 1.8 | 6 |
| 133 | Surface analytical investigation of nearly-frictionless carbon films after tests in dry and humid nitrogen. Surface and Coatings Technology, 2007, 201, 7401-7407. | 2.2 | 50 |
| 134 | Effect of copper addition on the temperature dependent reciprocating wear behaviour of CrN coatings. Surface and Coatings Technology, 2007, 202, 866-870. | 2.2 | 35 |
| 135 | Mechanical and tribological properties of CrAlN-Ag self-lubricating films. Surface and Coatings Technology, 2007, 202, 1011-1016. | 2.2 | 84 |
| 136 | Investigation of Initial and Steady-State Sliding Behavior of a Nearly Frictionless Carbon Film by Imaging 2- and 3-D TOF-SIMS. Tribology Letters, 2007, 28, 241-249. | 1.2 | 29 |
| 137 | Performance Evaluation of Half-Wetted Hydrodynamic Bearings With DLC Coated Surfaces. , 2007, , . | | 1 |
| 138 | Annealing effects on the mechanical properties of near-frictionless carbon thin films. Diamond and Related Materials, 2006, 15, 2051-2054. | 1.8 | 13 |
| 139 | The mechanical properties of freestanding near-frictionless carbon films relevant to MEMS. Journal of Micromechanics and Microengineering, 2006, 16, 1374-1381. | 1.5 | 15 |
| 140 | The Detection of Salivary Minerals in Smokers and Non-Smokers With Chronic Periodontitis by the Inductively Coupled Plasma-Atomic Emission Spectrophotometry Technique. Journal of Periodontology, 2006, 77, 990-995. | 1.7 | 26 |
| 141 | Assessment of antibacterial activity of EndoREZ. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2006, 102, 119-126. | 1.6 | 39 |
| 142 | Synthesis and Tribology of Carbide-Derived Carbon Films. International Journal of Applied Ceramic Technology, 2006, 3, 236-244. | 1.1 | 20 |
| 143 | Reinforcement effect of polyethylene fibre in root-filled teeth: comparison of two restoration techniques. International Endodontic Journal, 2006, 39, 136-142. | 2.3 | 90 |
| 144 | Title is missing!. Surface and Coatings Technology, 2006, 201, xv. | 2.2 | 0 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Tribology of diamond-like carbon films: recent progress and future prospects. Journal Physics D: Applied Physics, 2006, 39, R311-R327. | 1.3 | 1,003 |
| 146 | Environmental effects on the friction of hydrogenated DLC films. Tribology Letters, 2006, 21, 51-56. | 1.2 | 131 |
| 147 | Friction Mechanisms and Fundamental Aspects in Solid Lubricant Coatings. , 2006, , 573-593. | | 5 |
| 148 | Comparing the Young's Modulus of Near-Frictionless Carbon Films Obtained From Different Methods. Materials Research Society Symposia Proceedings, 2006, 956, 1. | 0.1 | 0 |
| 149 | Depth-dependent defect and residual stress distribution in magnetron sputtered MoN:Cu nanocomposite films by x-ray microdiffraction. Materials Research Society Symposia Proceedings, 2006, 977, 1. | 0.1 | 1 |
| 150 | Deposition, characterization, and tribological applications of near-frictionless carbon films on glass and ceramic substrates. Journal of Physics Condensed Matter, 2006, 18, S1751-S1762. | 0.7 | 15 |
| 151 | Tribology of Nanostructured and Composite Coatings. , 2006, , . | | 5 |
| 152 | Si3N4/BN fibrous monoliths: Mechanical properties and tribological responses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 412, 146-152. | 2.6 | 7 |
| 153 | Review of engineered tribological interfaces for improved boundary lubrication. Tribology International, 2005, 38, 249-256. | 3.0 | 456 |
| 154 | Transfer of 319 Al alloy to titanium diboride and titanium nitride based (TiAlN, TiCN, TiN) coatings: effects of sliding speed, temperature and environment. Surface and Coatings Technology, 2005, 200, 2260-2270. | 2.2 | 45 |
| 155 | A crystal chemical approach to the formulation of self-lubricating nanocomposite coatings. Surface and Coatings Technology, 2005, 200, 1792-1796. | 2.2 | 192 |
| 156 | Orthodontic movement of a horizontally fractured tooth: a case report. Dental Traumatology, 2005, 21, 160-164. | 0.8 | 20 |
| 157 | Dry and oil-lubricated sliding wear of Si3N4 and Si3N4/BN fibrous monoliths. Tribology Letters, 2005, 18, 231-237. | 1.2 | 15 |
| 158 | The Tribological Properties of Low-friction Hydrogenated Diamond-like Carbon Measured in Ultrahigh Vacuum. Tribology Letters, 2005, 20, 221-227. | 1.2 | 77 |
| 159 | Nano-structured carbide-derived carbon films and their tribology. Tsinghua Science and Technology, 2005, 10, 699-703. | 4.1 | 28 |
| 160 | Relation of Certain Quantum Chemical Parameters to Lubrication Behavior of Solid Oxides. International Journal of Molecular Sciences, 2005, 6, 203-218. | 1.8 | 47 |
| 161 | A Gas-Surface Interaction Model for Spatial and Time-Dependent Friction Coefficient in Reciprocating Contacts: Applications to Near-Frictionless Carbon. Journal of Tribology, 2005, 127, 82-88. | 1.0 | 26 |
| 162 | The effect of laser surface texturing on transitions in lubrication regimes during unidirectional sliding contact. Tribology International, 2005, 38, 219-225. | 3.0 | 497 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | Effect of EDTA and Citric Acid Solutions on the Microhardness and the Roughness of Human Root Canal Dentin. Journal of Endodontics, 2005, 31, 107-110. | 1.4 | 80 |
| 164 | Effects of Endodontic Irrigation Solutions on Mineral Content of Root Canal Dentin Using ICP-AES Technique. Journal of Endodontics, 2005, 31, 187-189. | 1.4 | 89 |
| 165 | Shear Bond Strength of Three Resin Based Sealers to Dentin With and Without the Smear Layer. Journal of Endodontics, 2005, 31, 293-296. | 1.4 | 80 |
| 166 | Ultrananocrystalline Diamond Film as a Wear-Resistant and Protective Coating for Mechanical Seal Applications. Tribology Transactions, 2005, 48, 24-31. | 1.1 | 82 |
| 167 | Assessment of Amorphous Carbon Coating for Artificial Joints Application. Tribology Transactions, 2005, 48, 190-198. | 1.1 | 7 |
| 168 | Insights into "near-frictionless carbon films― Journal of Applied Physics, 2004, 95, 7765-7771. | 1.1 | 40 |
| 169 | Tribological Characterization of Carbide-Derived Carbon Layers on Silicon Carbide for Dry Friction Applications. Key Engineering Materials, 2004, 264-268, 465-468. | 0.4 | 2 |
| 170 | X-Ray Studies of Near-Frictionless Carbon Films Materials Research Society Symposia Proceedings, 2004, 843, 271. | 0.1 | 3 |
| 171 | Effect of the gutta-percha solvents on the microhardness and the roughness of human root dentine. Journal of Oral Rehabilitation, 2004, 31, 1145-1148. | 1.3 | 9 |
| 172 | Structure and tribological behaviour of nanoscale multilayer C/Cr coatings deposited by the combined steered cathodic arc/unbalanced magnetron sputtering technique. Thin Solid Films, 2004, 447-448, 7-13. | 0.8 | 33 |
| 173 | Solid Lubricant Coatings: Recent Developments and Future Trends. Tribology Letters, 2004, 17, 389-397. | 1.2 | 311 |
| 174 | Evaluation of DLC coatings for spark-ignited, direct-injected fuel systems. Surface and Coatings Technology, 2004, 179, 237-244. | 2.2 | 23 |
| 175 | Design criteria for superlubricity in carbon films and related microstructures. Tribology International, 2004, 37, 577-583. | 3.0 | 86 |
| 176 | Genesis of superlow friction and wear in diamondlike carbon films. Tribology International, 2004, 37, 1005-1012. | 3.0 | 267 |
| 177 | Friction and wear behavior of near-frictionless carbon coatings in formulated gasolines. Surface and Coatings Technology, 2004, 183, 111-117. | 2.2 | 4 |
| 178 | Effects of high-temperature hydrogenation treatment on sliding friction and wear behavior of carbide-derived carbon films. Surface and Coatings Technology, 2004, 188-189, 588-593. | 2.2 | 46 |
| 179 | The Effect of Laser Texturing of Steel Surfaces and Speed-Load Parameters on the Transition of Lubrication Regime from Boundary to Hydrodynamic. Tribology Transactions, 2004, 47, 299-307. | 1.1 | 193 |
| 180 | Effect of Gutta-percha Solvents on Mineral Contents of Human Root Dentin Using ICP-AES Technique. Journal of Endodontics, 2004, 30, 54-56. | 1.4 | 22 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | Effect of Medications for Root Canal Treatment on Bonding to Root Canal Dentin. Journal of Endodontics, 2004, 30, 113-116. | 1.4 | 162 |
| 182 | Effect of Solvents on Bonding to Root Canal Dentin. Journal of Endodontics, 2004, 30, 589-592. | 1.4 | 41 |
| 183 | Evaluation of the Effect of Endodontic Irrigation Solutions on the Microhardness and the Roughness of Root Canal Dentin. Journal of Endodontics, 2004, 30, 792-795. | 1.4 | 141 |
| 184 | Fractional Coverage Model for the Adsorption and Removal of Gas Species and Application to Superlow Friction Diamond-Like Carbon. Journal of Tribology, 2004, 126, 615-619. | 1.0 | 34 |
| 185 | Title is missing!. Tribology Letters, 2003, 15, 51-55. | 1.2 | 51 |
| 186 | Tribological behavior of hard carbon coatings on steel substrates. Wear, 2003, 255, 854-858. | 1.5 | 31 |
| 187 | Tribological performance of some alternative bearing materials for artificial joints. Wear, 2003, 255, 1015-1021. | 1.5 | 52 |
| 188 | Friction of diamond-like carbon films in different atmospheres. Wear, 2003, 254, 1070-1075. | 1.5 | 264 |
| 189 | Frictional behavior of diamondlike carbon films in vacuum and under varying water vapor pressure. Surface and Coatings Technology, 2003, 163-164, 535-540. | 2.2 | 177 |
| 190 | Friction-induced structural transformations of diamondlike carbon coatings under various atmospheres. Surface and Coatings Technology, 2003, 163-164, 444-450. | 2.2 | 211 |
| 191 | Near-surface characterization of amorphous carbon films by neutron reflectivity. Applied Physics Letters, 2003, 83, 452-454. | 1.5 | 21 |
| 192 | Surface Damage and Wear Mechanisms of Amorphous Carbon Coatings under Boundary Lubrication Conditions. Surface Engineering, 2003, 19, 447-453. | 1.1 | 5 |
| 193 | In vitro evaluation of the dissolving effect of solvents on root canal sealers. Journal of Oral Science, 2003, 45, 123-126. | 0.7 | 15 |
| 194 | Raman Chemical Imaging of Tribological Surfaces. Tribology Transactions, 2002, 45, 239-245. | 1.1 | 2 |
| 195 | Friction and wear of diamond and diamond-like carbon films. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2002, 216, 387-400. | 1.0 | 48 |
| 196 | Phase Transformations in Silicon Under Dry and Lubricated Sliding. Tribology Transactions, 2002, 45, 372-380. | 1.1 | 54 |
| 197 | Ultrananocrystalline diamond thin films for MEMS and moving mechanical assembly devices. Diamond and Related Materials, 2001, 10, 1952-1961. | 1.8 | 349 |
| 198 | Hysteresis and related error mechanisms in the NIST watt balance experiment. Journal of Research of the National Institute of Standards and Technology, 2001, 106, 627. | 0.4 | 18 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | Superlubricity and Wearless Sliding in Diamondlike Carbon Films. Materials Research Society Symposia Proceedings, 2001, 697, 911. | 0.1 | 5 |
| 200 | Scuffing Performance of Amorphous Carbon During Dry-Sliding Contact. Tribology Transactions, 2001, 44, 591-596. | 1.1 | 10 |
| 201 | <title>Science and technology of ultrananocrystalline diamond (UNCD) thin films for multifunctional devices</title> . , 2001, 4235, 10. | | Ο |
| 202 | The role of hydrogen in tribological properties of diamond-like carbon films. Surface and Coatings Technology, 2001, 146-147, 292-297. | 2.2 | 477 |
| 203 | Effect of Carbon Coating on Scuffing Performance in Diesel Fuels. Tribology Transactions, 2001, 44, 298-304. | 1.1 | 13 |
| 204 | Superlow friction behavior of diamond-like carbon coatings: Time and speed effects. Applied Physics Letters, 2001, 78, 2449-2451. | 1.5 | 230 |
| 205 | Solid Lubricants and Self-Lubricating Films. Mechanics & Materials Science, 2000, , . | 0.1 | 20 |
| 206 | Tribology of Diamond, Diamond-like Carbon and Related Films. Mechanics & Materials Science, 2000, , . | 0.1 | 19 |
| 207 | Synthesis of superlow-friction carbon films from highly hydrogenated methane plasmas. Surface and Coatings Technology, 2000, 133-134, 448-454. | 2.2 | 166 |
| 208 | A crystal-chemical approach to lubrication by solid oxides. Tribology Letters, 2000, 8, 97-102. | 1.2 | 292 |
| 209 | Near-Frictionless Carbon Coatings for Use in Fuel Injectors and Pump Systems Operating with Low-Sulfur Diesel Fuels. , 2000, , . | | 8 |
| 210 | Tribological Properties of Carbon Coatings Produced by High Temperature Chlorination of Silicon Carbide. Tribology Transactions, 2000, 43, 809-815. | 1.1 | 41 |
| 211 | Periodic ab initio calculations of orthoboric acid. Journal of Chemical Physics, 2000, 113, 3338-3343. | 1.2 | 23 |
| 212 | Effect of source gas chemistry on tribological performance of diamond-like carbon films. Diamond and Related Materials, 2000, 9, 632-637. | 1.8 | 126 |
| 213 | Synthesis of diamondlike carbon films with superlow friction and wear properties. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 1987-1992. | 0.9 | 312 |
| 214 | Dry Lubricant Films for Aluminum Forming. Tribology Transactions, 2000, 43, 535-541. | 1.1 | 29 |
| 215 | The boron oxide–boric acid system: Nanoscale mechanical and wear properties. Journal of Materials Research, 1999, 14, 3455-3466. | 1.2 | 26 |
| 216 | Nano-Tribological and Wear Behavior of Boric Acid Solid Lubricant©. Tribology Transactions, 1999, 42, 180-185. | 1.1 | 8 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 217 | Tribological properties of nanocrystalline diamond films. Surface and Coatings Technology, 1999, 120-121, 565-572. | 2.2 | 161 |
| 218 | Friction and wear performance of diamond-like carbon films grown in various source gas plasmas. Surface and Coatings Technology, 1999, 120-121, 589-593. | 2.2 | 68 |
| 219 | Self-replenishing solid lubricant films on boron carbide. Surface Engineering, 1999, 15, 291-295. | 1.1 | 49 |
| 220 | Friction and Wear Mechanisms of Smooth Diamond Films During Sliding in Air and Dry Nitrogen. Tribology Transactions, 1997, 40, 667-675. | 1.1 | 60 |
| 221 | Influence of environmental parameters on the frictional behavior of DLC coatings. Surface and Coatings Technology, 1997, 94-95, 463-468. | 2.2 | 149 |
| 222 | Effect of source gas and deposition method on friction and wear performance of diamondlike carbon films. Surface and Coatings Technology, 1997, 94-95, 525-530. | 2.2 | 63 |
| 223 | Durability and tribological performance of smooth diamond films produced by Ar-C60 microwave plasmas and by laser polishing. Surface and Coatings Technology, 1997, 94-95, 537-542. | 2.2 | 57 |
| 224 | Solid/liquid lubrication of ceramics at elevated temperatures. Wear, 1997, 203-204, 588-595. | 1.5 | 41 |
| 225 | Preparation of ultralow-friction surface films on vanadium diboride. Wear, 1997, 205, 236-239. | 1.5 | 95 |
| 226 | High-Temperature Durability and Tribological Performance of Diamond and Diamondlike Carbon Films. , 1997, , 169-184. | | 2 |
| 227 | Formation of ultralow friction surface films on boron carbide. Applied Physics Letters, 1996, 68, 1637-1639. | 1.5 | 121 |
| 228 | Friction and wear properties of smooth diamond films grown in fullerene + argon plasmas. Diamond and Related Materials, 1996, 5, 923-931. | 1.8 | 64 |
| 229 | Energy and wear analysis in lubricated sliding contact. Wear, 1996, 191, 261-264. | 1.5 | 13 |
| 230 | Tribology and surface engineering at Argonne National Laboratory. Tribology International, 1996, 29, 263-264. | 3.0 | 0 |
| 231 | A study of the wear mechanism of diamond-like carbon films. Surface and Coatings Technology, 1996, 82, 48-56. | 2.2 | 514 |
| 232 | Tribology of naturally occurring boric acid films on boron carbide. Surface and Coatings Technology, 1996, 86-87, 507-510. | 2.2 | 110 |
| 233 | An investigation of the relationship between graphitization and frictional behavior of DLC coatings. Surface and Coatings Technology, 1996, 86-87, 564-568. | 2.2 | 326 |
| 234 | Characterization of transfer layers forming on surfaces sliding against diamond-like carbon. Surface and Coatings Technology, 1996, 86-87, 692-697. | 2.2 | 97 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | Effect of niobium interlayer on high-temperature sliding friction and wear of silver films on alumina. Tribology Letters, 1996, 2, 23. | 1.2 | 11 |
| 236 | Tribological Properties of Hard Carbon Films on Zirconia Ceramics. Tribology Transactions, 1996, 39, 735-744. | 1.1 | 42 |
| 237 | Ultralow friction behavior of borided steel surfaces after flash annealing. Applied Physics Letters, 1996, 68, 923-925. | 1.5 | 62 |
| 238 | Tribological Performance of Diamond and Diamondlike Carbon Films at Elevated Temperatures. Tribology Transactions, 1996, 39, 787-794. | 1.1 | 68 |
| 239 | Physical and tribological properties of diamond films grown in argoncarbon plasmas. Thin Solid Films, 1995, 270, 154-159. | 0.8 | 96 |
| 240 | Tribological characteristics of DLC films and duplex plasma nitriding/DLC coating treatments. Surface and Coatings Technology, 1995, 73, 39-45. | 2.2 | 140 |
| 241 | Characterization of transfer layers on steel surfaces sliding against diamond-like hydrocarbon films in dry nitrogen. Surface and Coatings Technology, 1995, 76-77, 559-563. | 2.2 | 87 |
| 242 | Crystal Chemistry and Solid Lubricating Properties of the Monochalcogenides Gallium Selenide and Tin Selenide. Tribology Transactions, 1994, 37, 471-478. | 1.1 | 25 |
| 243 | Effect of Metallic-Coating Properties on the Tribology of Coated and Oil-Lubricated Ceramics. Tribology Transactions, 1994, 37, 656-660. | 1.1 | 8 |
| 244 | Friction and wear performance of ion-beam-deposited diamond-like carbon films on steel substrates. Diamond and Related Materials, 1994, 3, 119-125. | 1.8 | 90 |
| 245 | Boundary film for structural ceramic materials. Wear, 1993, 162-164, 1150-1155. | 1.5 | 6 |
| 246 | Sliding Wear of Silicon Carbide-Titanium Boride Ceramic-Matrix Composite. Journal of the American Ceramic Society, 1993, 76, 511-517. | 1.9 | 33 |
| 247 | High Energy (MeV) Ion Beam Modifications of Sputtered MoS ₂ Coatings on Ceramics. Tribology Transactions, 1993, 36, 621-626. | 1.1 | 5 |
| 248 | The Synergistic Effects of Solid and Liquid Lubrication on the Tribological Behavior of Transformation-Toughened ZrO2Ceramics. Tribology Transactions, 1992, 35, 287-297. | 1.1 | 19 |
| 249 | Rolling-contact fatigue and wear resistance of hard coatings on bearing-steel substrates. Surface and Coatings Technology, 1992, 54-55, 482-489. | 2.2 | 53 |
| 250 | Tribological behavior of oil-lubricated TiN-coated steel. Surface and Coatings Technology, 1992, 54-55, 496-501. | 2.2 | 22 |
| 251 | The effects of beam energy and substrate temperature on the tribological properties of hard-carbon films on aluminum. Surface and Coatings Technology, 1992, 51, 139-145. | 2.2 | 47 |
| 252 | The role of soft (metallic) films in the tribological behavior of ceramic materials. Wear, 1991, 149, 221-232. | 1.5 | 7 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 253 | Cross-sectional transmission electron microscopy study of phase transformations at TiN film/steel substrate interfaces. Ultramicroscopy, 1991, 37, 286-293. | 0.8 | 3 |
| 254 | Relationship of hertzian contact pressure to friction behavior of self-lubricating boric acid films. Surface and Coatings Technology, 1991, 49, 435-438. | 2.2 | 63 |
| 255 | High energy (MeV) ion beam modifications of sputtered MoS2 coatings on sapphire. Nuclear Instruments & Methods in Physics Research B, 1991, 59-60, 788-792. | 0.6 | 13 |
| 256 | A tribological investigation of the graphite-to-diamond-like behavior of amorphous carbon films ion beam deposited on ceramic substrates. Surface and Coatings Technology, 1991, 50, 17-23. | 2.2 | 162 |
| 257 | Effect of postâ€deposition annealing on structure and chemistry of the TiN film/steel substrate interfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 439-443. | 0.9 | 3 |
| 258 | Sliding Friction and Wear of Ceramics With and Without Soft Metallic Films. MRS Bulletin, 1991, 16, 49-53. | 1.7 | 8 |
| 259 | Tribological performance of ion-beam-mixed Fe/B multilayers on M50 steel. Surface and Coatings Technology, 1990, 42, 283-297. | 2.2 | 18 |
| 260 | Effect of film adhesion on tribological properties of silver-coated alumina. Surface and Coatings Technology, 1990, 43-44, 577-587. | 2.2 | 17 |
| 261 | A study of the formation and self-lubrication mechanisms of boric acid films on boric oxide coatings. Surface and Coatings Technology, 1990, 43-44, 588-596. | 2.2 | 90 |
| 262 | Nucleation and growth mechanisms in ion-plated TiN films on steel substrates. Surface and Coatings Technology, 1990, 41, 285-293. | 2.2 | 17 |
| 263 | Solid Lubrication of Ceramic Surfaces by IAD-Silver Coatings for Heat Engine Applications. Tribology Transactions, 1990, 33, 511-518. | 1.1 | 27 |
| 264 | Correlation of interface structure with adhesive strength of ion-plated TiN hard coatings. Surface and Coatings Technology, 1989, 39-40, 365-376. | 2.2 | 45 |
| 265 | Characterization of ceramic films and interfaces by electron microscopic and spectroscopic techniques. Ultramicroscopy, 1989, 29, 266-276. | 0.8 | 15 |
| 266 | Crossâ€sectional transmission electron microscopy of the interfaces between physical vapor deposited TiNx coatings and steel substrates. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 2486-2490. | 0.9 | 16 |
| 267 | Surface metallurgical and tribological characteristics of TiN-coated bearing steels. Surface and Coatings Technology, 1988, 36, 755-763. | 2.2 | 42 |
| 268 | A study of the corrosion behavior of TiN films. Materials Science and Engineering, 1985, 69, 89-93. | 0.1 | 67 |
| 269 | Rolling contact fatigue behavior of Cu and TiN coatings on bearing steel substrates. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 2348-2353. | 0.9 | 29 |
| | | | |

270 Clean and Cost-effective Dry Boundary Lubricants for Aluminum Forming. , 0, , .

3

| # | Article | IF | CITATIONS |
|-----|--|----|-----------|
| 271 | Boron-Based Solid Nanolubricants and Lubrication Additives. , 0, , 203-223. | | 15 |
| 272 | Engine Friction and Wear Performances with Polyalkylene Glycol Engine Oils. , 0, , . | | 5 |
| 273 | GLOBAL IMPACT OF FRICTION ON ENERGY USE IN TRANSPORTATION AND INDUSTRY. , 0, , . | | 0 |