Mitjan Kalin

List of Publications by Year
in descending order

176 papers	5,829 citations	70961 41 h-index	98622 67 g-index
205 all docs	205 docs citations	205 times ranked	4586 citing authors

#	Article	IF	Citations
1	Differences in nano-topography and tribochemistry of ZDDP tribofilms from variations in contact configuration with steel and DLC surfaces. Friction, 2022, 10, 296-315.	3.4	6
2	Effect of Expanded Graphite on Mechanical and Tribological Properties of Polyamide 6/Glass Fibre Composites. Advances in Polymer Technology, 2022, 2022, 1-8.	0.8	6
3	Wear and Tribology Behavior of Superelastic Ni-Ti Tubes under Fatigue Cycling in Compression. , 2022, , .		0
4	Tribological performance of a<scp>UHMWPE</scp>â€based multiscale composite under different lubrication and loads. Lubrication Science, 2022, 34, 480-492.	0.9	3
5	New strategy for reducing the EHL friction in steel contacts using additive-formed oleophobic boundary films. Friction, 2021, 9, 1346-1360.	3.4	17
6	Effects of slide-to-roll ratio and temperature on the tribological behaviour in polymer-steel contacts and a comparison with the performance of real-scale gears. Wear, 2021, 477, 203789.	1.5	12
7	Improvement of the Tribological Properties of Alumina Coatings by Zirconia Addition. Coatings, 2021, 11, 991.	1.2	5
8	Wear-coefficient analyses for polymer-gear life-time predictions: A critical appraisal of methodologies. Wear, 2021, 480-481, 203944.	1.5	8
9	Elasto-hydrodynamic friction changes on steel surfaces arising from the modified surface energy of the steel due to additive boundary films. Tribology International, 2021, 164, 107203.	3.0	1
10	Reconfigurable Surface Micropatterns Based on the Magnetic Field-Induced Shape Memory Effect in Magnetoactive Elastomers. Polymers, 2021, 13, 4422.	2.0	5
11	Submicron-scale experimental analyses of the multi-asperity contact behaviour of various steels, an aluminium alloy and a polymer. Tribology International, 2020, 141, 105955.	3.0	9
12	Additive chemical structure and its effect on the wetting behaviour of oil at 100â€¯Â°C. Applied Surface Science, 2020, 506, 145020.	3.1	7
13	Local mechanical and frictional properties of Ag/MoS2-doped self-lubricating Ni-based laser claddings and resulting high temperature vacuum performance. Materials and Design, 2020, 186, 108296.	3.3	33
14	Tribology of solid-lubricated liquid carbon dioxide assisted machining. CIRP Annals - Manufacturing Technology, 2020, 69, 69-72.	1.7	19
15	Physicochemical and tribological characterizations of WDLC coatings and ionic-liquid lubricant additives: Potential candidates for low friction under boundary-lubrication conditions. Tribology International, 2020, 151, 106482.	3.0	11
16	Effect of graphite concentration on the tribological performance of alumina coatings. Journal of Alloys and Compounds, 2020, 827, 154135.	2.8	11
17	Synergisms and antagonisms between MoS2 nanotubes and representative oil additives under various contact conditions. Tribology International, 2019, 129, 137-150.	3.0	41
18	Determination of friction coefficient in cutting processes: comparison between open and closed tribometers. Procedia CIRP, 2019, 82, 101-106.	1.0	17

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19	Lubrication performance of graphene-containing oil on steel and DLC-coated surfaces. Tribology International, 2019, 138, 59-67.	3.0	40
20	Effect of polarity and various contact pairing combinations of electrographite, polymer-bonded graphite and copper on the performance of sliding electrical contacts. Wear, 2019, 426-427, 1163-1175.	1.5	13
21	Influence of additives and their molecular structure on the static and dynamic wetting of oil on steel at room temperature. Applied Surface Science, 2019, 490, 420-429.	3.1	16
22	Tribological performance and degradation of 1â€•<i>n</i>â€•butylâ€•1â€•methylpyrrolidinium methylsulfate ionic liquid in glycerol as lubricant for steelâ€•steel sliding contacts. Lubrication Science, 2019, 31, 137-149.	0.9	4
23	Influence of a Diamond-Like Carbon-Coated Mechanical Part on the Operation of an Orbital Hydraulic Motor in Water. Metals, 2019, 9, 466.	1.0	4
24	Additive Adsorption on DLC Coatings in Static and Tribological Conditions Using Neutron Reflectometry. Frontiers in Mechanical Engineering, 2019, 5, .	0.8	6
25	Water-lubricated behaviour of AISI 440C stainless steel and a DLC coating for an orbital hydraulic motor application. Tribology International, 2019, 131, 128-136.	3.0	29
26	Green Tribology for the Sustainable Engineering of the Future. Strojniski Vestnik/Journal of Mechanical Engineering, 2019, 65, 709-727.	0.6	10
27	Galling growth analysis in metal forming. Manufacturing Letters, 2018, 16, 32-35.	1.1	3
28	Influence of contact parameters on the tribological behaviour of various graphite/graphite sliding electrical contacts. Wear, 2018, 406-407, 75-83.	1.5	44
29	Submicron-scale experimental analyses of multi-asperity contacts with different roughnesses. Tribology International, 2018, 119, 667-671.	3.0	20
30	Performance Evaluation of Solid Lubricants Under Machining-Like Conditions. Procedia CIRP, 2018, 77, 401-404.	1.0	22
31	Influence of the contact parameters and several graphite materials on the tribological behaviour of graphite/copper two-disc electrical contacts. Tribology International, 2018, 126, 192-205.	3.0	29
32	Microstructure and tribological properties of plasma sprayed alumina and alumina-graphite coatings. Surface and Coatings Technology, 2018, 350, 401-409.	2.2	13
33	Tribology of the PEEK Polymer Filled with Solid Lubricants. , 2018, , 345-359.		0
34	Interactions between MoS2 nanotubes and conventional additives in model oils. Tribology International, 2017, 110, 140-150.	3.0	35
35	Experimentally derived friction model to evaluate the anti-wear and friction-modifier additives in steel and DLC contacts. Tribology International, 2017, 111, 116-137.	3.0	4
36	Tribological properties of polyamide (PA6) in self-mated contacts and against steel as a stationary and moving body. Wear, 2017, 378-379, 17-26.	1.5	33

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37	Friction and anti-galling properties of hexagonal boron nitride (h-BN) in aluminium forming. Wear, 2017, 388-389, 2-8.	1.5	38
38	Friction and wear performance of functionally graded ductile iron for brake pads. Wear, 2017, 382-383, 85-94.	1.5	33
39	The dominant effect of temperature on the fatigue behaviour of polymer gears. Wear, 2017, 376-377, 1339-1346.	1.5	54
40	Highâ€speed optical imaging of liquid film flow and liquid macroâ€slip over free surfaces with different surface energies. Lubrication Science, 2017, 29, 557-566.	0.9	1
41	Characterisation of food contact non-stick coatings containing TiO₂ nanoparticles and study of their possible release into food. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2017, 34, 421-433.	1.1	30
42	Room and high temperature reciprocated sliding wear behavior of SiC-WC composites. Ceramics International, 2017, 43, 16827-16834.	2.3	22
43	In-situ Observations of a Multi-Asperity Real Contact Area on a Submicron Scale. Strojniski Vestnik/Journal of Mechanical Engineering, 2017, 63, 351-362.	0.6	12
44	Tribological research of different material pairs for water hydraulic seat type of valve. , 2017, , .		0
45	Friction and Wear of Ceramics. , 2017, , 542-549.		0
46	Sliding Evolution of the Mechanical Behaviour of Zinc Dialkyldithiophosphate Tribofilms on Diamond-Like Carbon Coatings. Tribology Letters, 2016, 62, 1.	1.2	2
47	Methodology of a statistical and DOE approach to the prediction of performance in tribology â€“ A DLC boundary-lubrication case study. Tribology International, 2016, 101, 10-24.	3.0	8
48	Effect of ZDDP concentration on the thermal film formation on steel, hydrogenated non-doped and Si-doped DLC. Applied Surface Science, 2016, 383, 191-199.	3.1	19
49	Comparing surface topography parameters of rough surfaces obtained with spectral moments and deterministic methods. Tribology International, 2016, 93, 137-141.	3.0	51
50	Tribological behaviour of a PEEK polymer containing solid MoS₂ lubricants. Lubrication Science, 2016, 28, 27-42.	0.9	41
51	Fully Transparent Nanocomposite Coating with an Amorphous Alumina Matrix and Exceptional Wear and Scratch Resistance. Advanced Functional Materials, 2016, 26, 4362-4369.	7.8	17
52	Effect of the type, size and concentration of solid lubricants on the tribological properties of the polymer PEEK. Wear, 2016, 364-365, 31-39.	1.5	79
53	Evolution of the nano-scale mechanical properties of tribofilms formed from low- and high-SAPS oils and ZDDP on DLC coatings and steel. Tribology International, 2016, 96, 43-56.	3.0	26
54	Mechanical behaviour and constitutive models of ZDDP tribofilms on DLC coatings using nano-indentation data and finite element modelling. Tribology International, 2016, 95, 19-26.	3.0	10

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55	Influence of concentration and anion alkyl chain length on tribological properties of imidazolium sulfate ionic liquids as additives to glycerol in steelâ€“steel contact lubrication. Tribology International, 2016, 97, 234-243.	3.0	65
56	Adsorption of alcohols and fatty acids onto hydrogenated (a-C:H) DLC coatings. Applied Surface Science, 2016, 363, 466-476.	3.1	17
57	Influence of the processing temperature on the tribological and mechanical properties of poly-ether-ether-ketone (PEEK) polymer. Tribology International, 2016, 94, 92-97.	3.0	72
58	Frictional behaviour of imidazolium sulfate ionic liquid additives under mixed slideâ€toâ€roll conditions: Part 1 â€" Variation of mixtures with identical weight ratio of ionic liquid additive. Lubrication Science, 2015, 27, 463-477.	0.9	9
59	Frictional behaviour of imidazolium sulfate ionic liquid additives under mixed slide to roll conditions: part 2 â€" influence of concentration and chemical composition of ionic liquid additive. Lubrication Science, 2015, 27, 489-503.	0.9	12
60	Effect of the Slide-to-Roll Ratio and the Contact Kinematics on the Elastohydrodynamic Friction in Diamond-Like-Carbon Contacts with Different Wetting Behaviours. Tribology Letters, 2015, 60, 1.	1.2	14
61	Wear and friction behaviour of poly-ether-ether-ketone (PEEK) filled with graphene, WS 2 and CNT nanoparticles. Wear, 2015, 332-333, 855-862.	1.5	143
62	The Influence of Surface Modification on Bacterial Adhesion to Titanium-Based Substrates. ACS Applied Materials & Interfaces, 2015, 7, 1644-1651.	4.0	269
63	Aluminium-alloy transfer to a CrN coating and a hot-work tool steel at room and elevated temperatures. Wear, 2015, 340-341, 82-89.	1.5	13
64	The effect of temperature and sliding distance on coated (CrN, TiAlN) and uncoated nitrided hot-work tool steels against an aluminium alloy. Wear, 2015, 330-331, 371-379.	1.5	28
65	Aqueous electrophoretic deposition of bulk polyether ether ketone (PEEK). Journal of Materials Processing Technology, 2015, 223, 58-64.	3.1	21
66	Relationship Between the Nanoscale Topographical and Mechanical Properties of Tribochemical Films on DLC Coatings and Their Macroscopic Friction Behavior. Tribology Letters, 2015, 59, 1.	1.2	12
67	Pyridinium based dicationic ionic liquids as base lubricants or lubricant additives. Tribology International, 2015, 82, 245-254.	3.0	68
68	Characteristics of the stationary behaviour of water- and oil-based power-control hydraulics. Mechanika, 2014, 20, .	0.3	6
69	Aqueous Lubrication of Ceramics. , 2014, , 237-268.		1
70	Miscibility and tribological investigations of ionic liquids in biodegradable esters. Lubrication Science, 2014, 26, 463-487.	0.9	18
71	Ab-initioinvestigation of chemical-bond formation at the diamond-like carbon surface. Lubrication Science, 2014, 26, 440-445.	0.9	3
72	Fatty Acid Adsorption on Several DLC Coatings Studied by Neutron Reflectometry. Tribology Letters, 2014, 53, 199-206.	1.2	21

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73	The wetting of steel, DLC coatings, ceramics and polymers with oils and water: The importance and correlations of surface energy, surface tension, contact angle and spreading. Applied Surface Science, 2014, 293, 97-108.	3.1	181
74	Various MoS2-, WS2- and C-Based Micro- and Nanoparticles in Boundary Lubrication. Tribology Letters, 2014, 53, 585-597.	1.2	99
75	Initiation and evolution of the aluminium-alloy transfer on hot-work tool steel at temperatures from 20 Â°C to 500 Â°C. Wear, 2014, 319, 234-244.	1.5	32
76	The Formation of Tribofilms of MoS2 Nanotubes on Steel and DLC-Coated Surfaces. Tribology Letters, 2014, 55, 381-391.	1.2	38
77	Influence of temperature on tribological behaviour of ionic liquids as lubricants and lubricant additives. Lubrication Science, 2014, 26, 107-115.	0.9	42
78	Neutron-reflectometry study of alcohol adsorption on various DLC coatings. Applied Surface Science, 2014, 288, 405-410.	3.1	22
79	Adsorption mechanisms for fatty acids on DLC and steel studied by AFM and tribological experiments. Applied Surface Science, 2013, 283, 460-470.	3.1	58
80	Influence of cooling speed on the microstructure and wear behaviour of hypereutectic Feâ€“Crâ€“C hardfacings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 576, 243-251.	2.6	39
81	Criteria and properties of the asperity peaks on 3D engineering surfaces. Wear, 2013, 308, 95-104.	1.5	21
82	Influence of surface roughness and running-in on the lubrication of steel surfaces with oil containing MoS2 nanotubes in all lubrication regimes. Tribology International, 2013, 61, 40-47.	3.0	62
83	The Effect of Wetting and Surface Energy on the Friction and Slip in Oil-Lubricated Contacts. Tribology Letters, 2013, 52, 185-194.	1.2	95
84	Non-conventional inverse-Stribeck-curve behaviour and other characteristics of DLC coatings in all lubrication regimes. Wear, 2013, 297, 911-918.	1.5	41
85	Improving the performance of a proportional 4/3 waterâ€“hydraulic valve by using a diamond-like-carbon coating. Wear, 2013, 297, 1016-1024.	1.5	29
86	Atomic force microscopy and tribology study of the adsorption of alcohols on diamond-like carbon coatings and steel. Applied Surface Science, 2013, 271, 317-328.	3.1	21
87	How to determine the number of asperity peaks, their radii and their heights for engineering surfaces: A critical appraisal. Wear, 2013, 300, 143-154.	1.5	32
88	Lubrication of DLC-coated surfaces with MoS2 nanotubes in all lubrication regimes: Surface roughness and running-in effects. Wear, 2013, 303, 361-370.	1.5	44
89	Nanoparticles as novel lubricating additives in a green, physically based lubrication technology for DLC coatings. Wear, 2013, 303, 480-485.	1.5	74
90	The correlation between the surface energy, the contact angle and the spreading parameter, and their relevance for the wetting behaviour of DLC with lubricating oils. Tribology International, 2013, 66, 225-233.	3.0	134

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91	Comparison of Alcohol and Fatty Acid Adsorption on Hydrogenated DLC Coatings Studied by AFM and Tribological Tests. Strojniski Vestnik/Journal of Mechanical Engineering, 2013, 59, 707-718.	0.6	18
92	A Homodyne Quadrature Laser Interferometer for Micro-Asperity Deformation Analysis. Sensors, 2013, 13, 703-720.	2.1	11
93	Traditional problems, yet new challenges, in lubrication science. Lubrication Science, 2013, 25, 249-250.	0.9	1
94	Pyrrolidinium sulfate and ammonium sulfate ionic liquids as lubricant additives for steel/steel contact lubrication. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2012, 226, 923-932.	1.0	43
95	How anion and cation species influence the tribology of a green lubricant based on ionic liquids. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2012, 226, 933-951.	1.0	45
96	Designing Tribological Interface for Efficient and Green DLC Lubrication: The Role of Coatings and Lubricants. Tribology Online, 2012, 7, 112-118.	0.2	7
97	Comparison of the effects of the lubricant-molecule chain length and the viscosity on the friction and wear of diamond-like-carbon coatings and steel. Tribology International, 2012, 50, 57-65.	3.0	35
98	Mechanisms and improvements in the friction and wear behavior using MoS2 nanotubes as potential oil additives. Wear, 2012, 280-281, 36-45.	1.5	226
99	Parameters influencing the running-in and long-term tribological behaviour of polyamide (PA) against polyacetal (POM) and steel. Wear, 2012, 290-291, 140-148.	1.5	55
100	Long-term treatment of invasive sinus, tracheobroncheal, pulmonary and intracerebral aspergillosis in acute lymphoblastic leukaemia. Infection, 2012, 40, 81-85.	2.3	8
101	Effect of base oil lubrication in comparison with non-lubricated sliding in diamond-like carbon contacts. Tribology - Materials, Surfaces and Interfaces, 2011, 5, 53-58.	0.6	3
102	Case Study: Max Phaseâ€"Ti ₃ Sic ₂. , 2011, , 185-196.		0
103	Case Study: Transformationâ€Toughened Zirconia. , 2011, , 142-166.		0
104	Case Study: Sialon Ceramics. , 2011, , 167-184.		0
105	Case Study: Titanium Diboride Ceramics and Composites. , 2011, , 197-210.		0
106	Case Study: Polymerâ€Ceramic Biocomposites. , 2011, , 233-250.		0
107	Case Study: Nanocrystalline Yttriaâ€Stabilized Tetragonal Zirconia Polycrystalline Ceramics. , 2011, , 325-337.		0
108	Case Study: Nanostructured Tungsten Carbideâ€"Zirconia Nanocomposites. , 2011, , 338-350.		0

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109	Case Study: Magnesiumâ€“Silicon Carbide Particulateâ€Reinforced Composites. , 2011, , 362-376.		0
110	Case Study: Titanium Carbonitrideâ€“Nickelâ€Based Cermets. , 2011, , 377-406.		0
111	Case Study: (W,Ti)Câ€“Co Cermets. , 2011, , 407-419.		0
112	Case Study: Sliding Wear of Alumina in a Cryogenic Environment. , 2011, , 439-453.		0
113	Case Study: Sliding Wear of Selfâ€Mated Tetragonal Zirconia Ceramics in Liquid Nitrogen. , 2011, , 454-468.		0
114	Case Study: Sliding Wear of Silicon Carbide in a Cryogenic Environment. , 2011, , 469-484.		0
115	Experimental validation of the lifetime performance of a proportional 4/3 hydraulic valve operating in water. Tribology International, 2011, 44, 2013-2021.	3.0	28
116	Case Study: Glassâ€Infiltrated Alumina. , 2011, , 276-286.		0
117	Case Study: Natural Tooth and Dental Restorative Materials. , 2011, , 251-275.		0
118	Special issue on some current trends in improving boundary lubrication. Lubrication Science, 2010, 22, 207-208.	0.9	0
119	Real contact temperatures as the criteria for the reactivity of diamond-like-carbon coatings with oil additives. Thin Solid Films, 2010, 518, 2029-2036.	0.8	19
120	Metal-doped (Ti, WC) diamond-like-carbon coatings: Reactions with extreme-pressure oil additives under tribological and static conditions. Thin Solid Films, 2010, 518, 4336-4344.	0.8	75
121	The influence of viscosity on the friction in lubricated DLC contacts at various sliding velocities. Tribology International, 2009, 42, 1752-1757.	3.0	21
122	The Stribeck curve and lubrication design for non-fully wetted surfaces. Wear, 2009, 267, 1232-1240.	1.5	137
123	Review of boundary lubrication mechanisms of DLC coatings used in mechanical applications. Meccanica, 2008, 43, 623-637.	1.2	114
124	Analyses of the Long-Term Performance and Tribological Behavior of an Axial Piston Pump Using Diamondlike-Carbon-Coated Piston Shoes and Biodegradable Oil. Journal of Tribology, 2008, 130, .	1.0	22
125	Tribochemistry in sliding wear of TiCNâ€“Ni-based cermets. Journal of Materials Research, 2008, 23, 1214-1227.	1.2	35
126	A Viscosity-Based Study of the Tribo-Physical Effects in Boundary-Lubricated DLC Contacts. , 2008, , .		0

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127	AN ANALYTICAL COMPARISON OF HYDRAULIC SYSTEMS BASED ON WATER AND ON OIL. Proceedings of the JFPS International Symposium on Fluid Power, 2008, 2008, 679-684.	0.1	2
128	The effect of temperature on the tribological mechanisms and reactivity of hydrogenated, amorphous diamond-like carbon coatings under oil-lubricated conditions. Thin Solid Films, 2007, 515, 3644-3652.	0.8	79
129	The effect of residual stresses in functionally graded aluminaâ€“ZTA composites on their wear and friction behaviour. Journal of the European Ceramic Society, 2007, 27, 151-156.	2.8	45
130	Load-Dependent Transition in Sliding Wear Properties of TiCN?WC?Ni Cermets. Journal of the American Ceramic Society, 2007, 90, 1534-1540.	1.9	33
131	Wear Behavior of Deep-Cryogenic Treated High-Speed Steels at Different Loads. Materials and Manufacturing Processes, 2006, 21, 741-746.	2.7	32
132	Wear mechanisms associated with the lubrication of zirconia ceramics in various aqueous solutions. Journal of the European Ceramic Society, 2006, 26, 223-232.	2.8	22
133	The lubrication of DLC coatings with mineral and biodegradable oils having different polar and saturation characteristics. Surface and Coatings Technology, 2006, 200, 4515-4522.	2.2	57
134	Influence of deep-cryogenic treatment on wear resistance of vacuum heat-treated HSS. Vacuum, 2006, 80, 507-518.	1.6	122
135	Tribological performance of titanium doped and pure DLC coatings combined with a synthetic bio-lubricant. Wear, 2006, 261, 9-14.	1.5	41
136	A comparison of the tribological behaviour of steel/steel, steel/DLC and DLC/DLC contacts when lubricated with mineral and biodegradable oils. Wear, 2006, 261, 22-31.	1.5	97
137	The tribological performance of DLC coatings under oil-lubricated fretting conditions. Tribology International, 2006, 39, 1060-1067.	3.0	43
138	Differences in the tribological mechanisms when using non-doped, metal-doped (Ti, WC), and non-metal-doped (Si) diamond-like carbon against steel under boundary lubrication, with and without oil additives. Thin Solid Films, 2006, 515, 2734-2747.	0.8	92
139	Surface charge as a new concept for boundary lubrication of ceramics with water. Journal Physics D: Applied Physics, 2006, 39, 3138-3149.	1.3	31
140	Clonal and Capsular Types Decide Whether Pneumococci Will Act as a Primary or Opportunistic Pathogen. Clinical Infectious Diseases, 2006, 42, 451-459.	2.9	215
141	Rolling and rolling-to-sliding contact behaviour of DLC coatings. Tribology and Interface Engineering Series, 2005, 48, 213-220.	0.0	0
142	Structural changes in ZrO2 ceramics during sliding under various environments. Wear, 2005, 259, 562-568.	1.5	15
143	Wear Mechanisms of Glass-Infiltrated Alumina Sliding Against Alumina in Water. Journal of the American Ceramic Society, 2005, 88, 346-352.	1.9	32
144	Development and use of an apparatus for tribological evaluation of ceramic-based brake materials. Wear, 2005, 259, 1079-1087.	1.5	33

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145	The tribological performance of DLC-coated gears lubricated with biodegradable oil in various pinion/gear material combinations. Wear, 2005, 259, 1270-1280.	1.5	92
146	Boundary Lubrication of DLC Coatings With Conventional Oils. , 2005, , 443.		0
147	A reduced-scale testing machine for tribological evaluation of brake materials. Tribology and Interface Engineering Series, 2005, 48, 799-806.	0.0	6
148	The Effect of Doping Elements and Oil Additives on the Tribological Performance of Boundary-Lubricated DLC/DLC Contacts. Tribology Letters, 2004, 17, 679-688.	1.2	95
149	The Effect of pH on the Wear of Water-Lubricated Alumina and Zirconia Ceramics. Tribology Letters, 2004, 17, 727-732.	1.2	26
150	Advantages of using the ball-on-flat device in rolling-contact testing of ceramics. Journal of the European Ceramic Society, 2004, 24, 11-15.	2.8	5
151	A rolling-contact device that uses the ball-on-flat testing principle. Wear, 2004, 256, 335-341.	1.5	10
152	Influence of flash temperatures on the tribological behaviour in low-speed sliding: a review. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 374, 390-397.	2.6	134
153	Tribological behaviour of DLC coatings in combination with biodegradable lubricants. Tribology International, 2004, 37, 983-989.	3.0	44
154	Influence of roughness on wear transition in glass-infiltrated alumina. Wear, 2003, 255, 669-676.	1.5	32
155	Wear and friction behavior of alumina ceramics in aqueous solutions with different pH. Wear, 2003, 254, 1141-1146.	1.5	44
156	Friction and wear behaviour of SiAlON ceramics under fretting contacts. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 359, 228-236.	2.6	31
157	Wear of hydroxyapatite sliding against glass-infiltrated alumina. Journal of Materials Research, 2003, 18, 27-36.	1.2	13
158	Effect of counterface roughness on abrasive wear of hydroxyapatite. Wear, 2002, 252, 679-685.	1.5	35
159	Microstructural Changes and Contact Temperatures During Fretting in Steel-Steel Contact. Journal of Tribology, 2001, 123, 670-675.	1.0	15
160	Comparison of different theoretical models for flash temperature calculation under fretting conditions. Tribology International, 2001, 34, 831-839.	3.0	76
161	High temperature phase transformations under fretting conditions. Wear, 2001, 249, 172-181.	1.5	46
162	Chemical aspects of wear of alumina ceramics. Wear, 2001, 250, 318-321.	1.5	26

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163	A tentative explanation for the tribochemical effects in fretting wear. Wear, 2001, 250, 681-689.	1.5	21
164	Key governing factors for the tribochemical changes in the interface films. Tribology Series, 2000, 38, 655-666.	0.1	0
165	Effects of the tribological interface properties on the contact temperature calculation. Tribology Series, 2000, , 533-540.	0.1	1
166	Use of equations for wear volume determination in fretting experiments. Wear, 2000, 237, 39-48.	1.5	53
167	Chemical reactivity of silicon nitride with steel and oxidised steel between 500 and 1200Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 281, 28-36.	2.6	22
168	Influence of Mechanical Pressure and Temperature on the Chemical Interaction Between Steel and Silicon Nitride Ceramics. Journal of Materials Research, 2000, 15, 1367-1376.	1.2	7
169	Interactions in silicon nitride ceramics vs. steel contact under fretting conditions. Wear, 1999, 225-229, 1276-1283.	1.5	20
170	Comparison of the fretting wear of 100Cr6/100Cr6, Si3N4/Si3N4 and Si3N4/100Cr6 contacts in lubricated and dry conditions. Lubrication Science, 1997, 9, 391-408.	0.9	0
171	Wear mechanisms in oil-lubricated and dry fretting of silicon nitride against bearing steel contacts. Wear, 1997, 210, 27-38.	1.5	55
172	The effect of slip amplitude and test time on fretting wear in metal-metal contact. TriboTest Journal: Tribology and Lubrication in Practice, 1996, 3, 149-165.	0.7	4
173	Effect of slip amplitude on the fretting wear of silicon nitride against silicon nitride. Wear, 1996, 192, 11-20.	1.5	23
174	Wear of silicon nitride ceramics under fretting conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 215, 125-133.	2.6	13
175	Effect of fretting conditions on the wear of silicon nitride against bearing steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 220, 191-199.	2.6	22
176	Characterization of lignin peroxidase-encoding genes from lignin-degrading basidiomycetes. Gene, 1990, 89, 145-150.	1.0	55