Anne Neville

List of Publications by Year
in descending order

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482	12,844	24978	60497
papers	citations	57 h-index	81 g-index

490	490	490	7074
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Compatibility between tribological surfaces and lubricant additivesâ€"How friction and wear reduction can be controlled by surface/lube synergies. Tribology International, 2007, 40, 1680-1695.	3.0	271
2	ZDDP and MoDTC interactions in boundary lubricationâ€"The effect of temperature and ZDDP/MoDTC ratio. Tribology International, 2006, 39, 1545-1557.	3.0	173
3	Modelling the tribo-corrosion interaction in aqueous sliding conditions. Tribology International, 2002, 35, 669-679.	3.0	171
4	Biotribocorrosion of CoCrMo orthopaedic implant materialsâ€"Assessing the formation and effect of the biofilm. Tribology International, 2007, 40, 1492-1499.	3.0	161
5	Tribo-corrosion properties of cobalt-based medical implant alloys in simulated biological environments. Wear, 2007, 263, 1105-1111.	1.5	158
6	ZDDP and MoDTC interactions and their effect on tribological performance â€“ tribofilm characteristics and its evolution. Tribology Letters, 2006, 24, 243-256.	1.2	154
7	A study of the erosion-corrosion behaviour of engineering steels for marine pumping applications. Wear, 1995, 186-187, 497-507.	1.5	148
8	Effect of oil additives on the durability of hydrogenated DLC coating under boundary lubrication conditions. Wear, 2009, 266, 147-157.	1.5	145
9	Calcium carbonate scale formationâ€"assessing the initial stages of precipitation and deposition. Journal of Petroleum Science and Engineering, 2005, 46, 185-194.	2.1	133
10	A review of iron carbonate (FeCO3) formation in the oil and gas industry. Corrosion Science, 2018, 142, 312-341.	3.0	126
11	Lubrication of soft oral surfaces. Current Opinion in Colloid and Interface Science, 2019, 39, 61-75.	3.4	118
12	Tribocorrosion in implantsâ€"assessing high carbon and low carbon Coâ€"Crâ€"Mo alloys by in situ electrochemical measurements. Tribology International, 2006, 39, 1509-1517.	3.0	117
13	Non-ferrous coating/lubricant interactions in tribological contacts: Assessment of tribofilms. Tribology International, 2007, 40, 1603-1612.	3.0	117
14	A systematic erosionâ€"corrosion study of two stainless steels in marine conditions via experimental design. Wear, 2007, 263, 355-362.	1.5	117
15	Preparation of Magnetic Carboxymethylchitosan Nanoparticles for Adsorption of Heavy Metal Ions. ACS Omega, 2016, 1, 77-83.	1.6	116
16	Internal corrosion of carbon steel pipelines for dense-phase CO₂transport in carbon capture and storage (CCS) â€" a review. International Materials Reviews, 2017, 62, 1-31.	9.4	111
17	Corrosion and synergy in a WCCoCr HVOF thermal spray coatingâ€"understanding their role in erosionâ€"corrosion degradation. Wear, 2005, 259, 171-180.	1.5	110
18	Influence of <mml:math altimg="si52.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x.	1.9	100

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19	Comparison of corrosion behaviour for X-65 carbon steel in supercritical CO2-saturated water and water-saturated/unsaturated supercritical CO2. Journal of Supercritical Fluids, 2015, 97, 224-237.	1.6	92
20	Biotribocorrosionâ€"an appraisal of the time dependence of wear and corrosion interactions: I. The role of corrosion. Journal Physics D: Applied Physics, 2006, 39, 3200-3205.	1.3	88
21	Erosionâ€“ and cavitationâ€“corrosion of titanium and its alloys. Wear, 2001, 250, 726-735.	1.5	87
22	Corrosion and erosion damage mechanisms during erosionâ€“corrosion of WCâ€“Coâ€“Cr cermet coatings. Wear, 2003, 255, 146-156.	1.5	87
23	Assessing the effect of on scale formationâ€“bulk precipitation and surface deposition. Journal of Crystal Growth, 2005, 275, e1341-e1347.	0.7	86
24	An assessment of the corrosion behaviour of high-grade alloys in seawater at elevated temperature and under a high velocity impinging flow. Corrosion Science, 1996, 38, 927-956.	3.0	85
25	Surface inorganic scale formation in oil and gas industry: As adhesion and deposition processes. Journal of Petroleum Science and Engineering, 2016, 137, 22-32.	2.1	85
26	Understanding the composition and low friction tribofilm formation/removal in boundary lubrication. Tribology International, 2007, 40, 1696-1704.	3.0	84
27	Effect of temperature on the critical water content for general and localised corrosion of X65 carbon steel in the transport of supercritical CO2. International Journal of Greenhouse Gas Control, 2014, 31, 48-60.	2.3	84
28	The electrochemical response of stainless steels in liquidâ€“solid impingement. Wear, 2005, 258, 641-648.	1.5	83
29	CO2 erosionâ€“corrosion of pipeline steel (API X65) in oil and gas conditionsâ€"A systematic approach. Wear, 2009, 267, 2027-2032.	1.5	83
30	Calcareous scales formed by cathodic protectionâ€"an assessment of characteristics and kinetics. Journal of Crystal Growth, 2002, 243, 490-502.	0.7	82
31	Linking electrochemical corrosion behaviour and corrosion mechanisms of thermal spray cermet coatings (WCâ€“CrNi and WC/CrCâ€“CoCr). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 352, 202-211.	2.6	82
32	Influence of friction modifier and antiwear additives on the tribological performance of a non-hydrogenated DLC coating. Surface and Coatings Technology, 2010, 204, 4001-4011.	2.2	81
33	Erosionâ€“corrosion behaviour of lean duplex stainless steels in 3.5% NaCl solution. Wear, 2013, 302, 1602-1608.	1.5	80
34	Examining corrosion effects and corrosion/erosion interactions on metallic materials in aqueous slurries. Tribology International, 2002, 35, 643-650.	3.0	79
35	An integrated methodology for predicting material wear rates due to erosion. Wear, 2009, 267, 1935-1944.	1.5	79
36	The formation of FeCO3 and Fe3O4 on carbon steel and their protective capabilities against CO2 corrosion at elevated temperature and pressure. Corrosion Science, 2019, 157, 392-405.	3.0	79

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37	Tribofilms: aspects of formation, stability and removal. Journal Physics D: Applied Physics, 2007, 40, 5476-5487.	1.3	78
38	An experimental study of the erosionâ€“corrosion behavior of plasma transferred arc MMCs. Wear, 2009, 267, 213-222.	1.5	75
39	Erosionâ€“corrosion behaviour of WC-based MMCs in liquidâ€“solid slurries. Wear, 2005, 259, 181-195.	1.5	74
40	Aspects of microstructure on the synergy and overall material loss of thermal spray coatings in erosionâ€“corrosion environments. Wear, 2007, 263, 339-346.	1.5	74
41	The early stages of FeCO3 scale formation kinetics in CO2 corrosion. Materials Chemistry and Physics, 2018, 216, 102-111.	2.0	73
42	Mechanisms of wear on a Co-base alloy in liquidâ€“solid slurries. Wear, 2000, 238, 138-150.	1.5	72
43	The effect of MoDTC-type friction modifier on the wear performance of a hydrogenated DLC coating. Wear, 2013, 302, 890-898.	1.5	69
44	New insights on the decomposition mechanism of Molybdenum DialkyldiThioCarbamate (MoDTC): a Raman spectroscopic study. RSC Advances, 2016, 6, 38637-38646.	1.7	68
45	Progressing the understanding of chemical inhibition of mineral scale by green inhibitors. Desalination, 2008, 220, 345-352.	4.0	67
46	Understanding the role of corrosion in the degradation of metal-on-metal implants. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2006, 220, 173-180.	1.0	66
47	The effect of O 2 content on the corrosion behaviour of X65 and 5Cr in water-containing supercritical CO 2 environments. Applied Surface Science, 2015, 356, 499-511.	3.1	66
48	Tribological performance of an H-DLC coating prepared by PECVD. Applied Surface Science, 2016, 383, 222-232.	3.1	66
49	Erosionâ€“corrosion mitigation by corrosion inhibitorsâ€”An assessment of mechanisms. Wear, 2009, 267, 195-203.	1.5	65
50	Assessment of the corrosion rates and mechanisms of a WCâ€“Coâ€“Cr HVOF coating in static and liquidâ€“solid impingement saline environments. Surface and Coatings Technology, 2001, 137, 43-51.	2.2	64
51	Degradation mechanisms of Co-based alloy and WC metalâ€“matrix composites for drilling tools offshore. Wear, 2003, 255, 1143-1156.	1.5	64
52	An investigation into the relationship between flux and roughness on RO membranes using scanning probe microscopy. Desalination, 2006, 189, 221-228.	4.0	64
53	Mechanical and electrochemical interactions during liquidâ€“solid impingement on high-alloy stainless steels. Wear, 2001, 251, 1284-1294.	1.5	62
54	Effect of metallic nanoparticles on the biotribocorrosion behaviour of Metal-on-Metal hip prostheses. Wear, 2009, 267, 683-688.	1.5	62

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55	Substrate effect on surface adhesion/crystallisation of calcium carbonate. Journal of Crystal Growth, 2013, 363, 7-21.	0.7	62
56	Liquid infused porous surfaces for mineral fouling mitigation. Journal of Colloid and Interface Science, 2015, 444, 81-86.	5.0	62
57	The influence of SO2 on the tolerable water content to avoid pipeline corrosion during the transportation of supercritical CO2. International Journal of Greenhouse Gas Control, 2015, 37, 412-423.	2.3	62
58	Biotribocorrosionâ€"an appraisal of the time dependence of wear and corrosion interactions: II. Surface analysis. Journal Physics D: Applied Physics, 2006, 39, 3206-3212.	1.3	60
59	A Comparison of the Corrosion Behavior of WC-Co-Cr and WC-Co HVOF Thermally Sprayed Coatings by In Situ Atomic Force Microscopy (AFM). Journal of Thermal Spray Technology, 2002, 11, 536-541.	1.6	59
60	A methodology for Raman characterisation of MoDTC tribofilms and its application in investigating the influence of surface chemistry on friction performance of MoDTC lubricants. Tribology Letters, 2015, 59, 1.	1.2	59
61	Electrochemical and mechanical interactions during erosionâ€"corrosion of a high-velocity oxy-fuel coating and a stainless steel. Wear, 1999, 233-235, 623-634.	1.5	58
62	Electrodeposition of a calcareous layer: Effects of green inhibitors. Chemical Engineering Science, 2009, 64, 2413-2421.	1.9	58
63	A numerical investigation of a geometry independent integrated method to predict erosion rates in slurry erosion. Wear, 2011, 271, 712-719.	1.5	58
64	Effect of water on ZDDP anti-wear performance and related tribochemistry in lubricated steel/steel pure sliding contacts. Tribology International, 2012, 56, 47-57.	3.0	58
65	Tribological performance and tribochemical processes in a DLC/steel system when lubricated in a fully formulated oil and base oil. Surface and Coatings Technology, 2013, 217, 1-12.	2.2	58
66	Failure analysis of 3D printed woven composite plates with holes under tensile and shear loading. Composites Part B: Engineering, 2020, 186, 107835.	5.9	58
67	A new insight into the interfacial mechanisms of the tribofilm formed by zinc dialkyl dithiophosphate. Applied Surface Science, 2017, 403, 472-486.	3.1	57
68	Characterisation of high-grade alloy behaviour in severe erosionâ€"corrosion conditions. Wear, 1999, 233-235, 596-607.	1.5	56
69	Erosionâ€"corrosion behaviour of high-velocity oxy-fuel Niâ€"Crâ€"Moâ€"Siâ€"B coatings under high-velocity seawater jet impingement. Wear, 2005, 259, 208-218.	1.5	56
70	In situ SR-XRD study of FeCO3 precipitation kinetics onto carbon steel in CO2-containing environments: The influence of brine pH. Electrochimica Acta, 2017, 255, 127-144.	2.6	56
71	Mechanisms and Kinetics of WC-Co-Cr High Velocity Oxy-Fuel Thermal Spray Coating Degradation in Corrosive Environments. Journal of Thermal Spray Technology, 2006, 15, 106-117.	1.6	55
72	Erosionâ€"corrosion of engineering steelsâ€"Can it be managed by use of chemicals?. Wear, 2009, 267, 2018-2026.	1.5	55

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73	A tribochemical evaluation of a WCâ€“DLC coating in EP lubrication conditions. Wear, 2011, 271, 1739-1744.	1.5	54
74	Friction reduction mechanisms in boundary lubricated W-doped DLC coatings. Tribology International, 2014, 70, 26-33.	3.0	54
75	Development of a new mechano-chemical model in boundary lubrication. Tribology International, 2016, 93, 573-582.	3.0	54
76	An electrochemical and microstructural assessment of erosionâ€“corrosion of cast iron. Wear, 1999, 233-235, 523-534.	1.5	53
77	Electrochemical assessment of calcium carbonate deposition using a rotating disc electrode (RDE). Journal of Applied Electrochemistry, 1999, 29, 455-462.	1.5	53
78	Relating iron carbonate morphology to corrosion characteristics for water-saturated supercritical CO2 systems. Journal of Supercritical Fluids, 2015, 98, 183-193.	1.6	53
79	Protectiveness, morphology and composition of corrosion products formed on carbon steel in the presence of Clâ^', Ca2+ and Mg2+ in high pressure CO2 environments. Applied Surface Science, 2018, 455, 667-682.	3.1	53
80	Studies of the deposition of CaCO3 on a stainless steel surface by a novel electrochemical technique. Journal of Crystal Growth, 1999, 198-199, 738-743.	0.7	52
81	Initial Stages of Barium Sulfate Formation at Surfaces in the Presence of Inhibitors. Crystal Growth and Design, 2011, 11, 4751-4758.	1.4	51
82	Understanding the Friction Reduction Mechanism Based on Molybdenum Disulfide Tribofilm Formation and Removal. Langmuir, 2018, 34, 13523-13533.	1.6	51
83	Performance evaluation of an imidazoline corrosion inhibitor in a CO2-saturated environment with emphasis on localised corrosion. Corrosion Science, 2020, 176, 108916.	3.0	50
84	Haloperoxidase Mimicry by CeO_{2â€“x} Nanorods of Different Aspect Ratios for Antibacterial Performance. ACS Sustainable Chemistry and Engineering, 2020, 8, 6744-6752.	3.2	50
85	The effect of soot and diesel contamination on wear and friction of engine oil pump. Tribology International, 2017, 115, 285-296.	3.0	48
86	The composition of tribofilms produced on metal-on-metal hip bearings. Biomaterials, 2014, 35, 2113-2119.	5.7	47
87	The Influence of pH on Localized Corrosion Behavior of X65 Carbon Steel in CO2-Saturated Brines. Corrosion, 2015, 71, 1452-1466.	0.5	47
88	Bio-corrosion behaviour of oxygen diffusion layer on Ti-6Al-4V during tribocorrosion. Corrosion Science, 2017, 128, 23-32.	3.0	47
89	Influence of silica nanoparticles on corrosion resistance of sol-gel based coatings on mild steel. Surface and Coatings Technology, 2017, 324, 368-375.	2.2	46
90	Case study on erosionâ€“corrosion degradation of pipework located on an offshore oil and gas facility. Wear, 2011, 271, 1295-1301.	1.5	45

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91	Efficiency assessment of inhibitors on CaCO3 precipitation kinetics in the bulk and deposition on a stainless steel surface (316L). Desalination, 2011, 281, 340-347.	4.0	43
92	Tribological properties of aluminium-clay composites for brake disc rotor applications. Journal of King Saud University - Science, 2020, 32, 21-28.	1.6	43
93	Comparisons of corrosion behaviour for X65 and low Cr steels in high pressure CO2-saturated brine. Journal of Materials Science and Technology, 2020, 41, 21-32.	5.6	43
94	Assessment of general and localized corrosion behavior of X65 and 13Cr steels in water-saturated supercritical CO 2 environments with SO 2 /O 2. International Journal of Greenhouse Gas Control, 2017, 64, 126-136.	2.3	42
95	3D Biomimetic Tongue-Emulating Surfaces for Tribological Applications. ACS Applied Materials & Interfaces, 2020, 12, 49371-49385.	4.0	42
96	Characterization of chemically bonded composite solâ€“gel based alumina coatings on steel substrates. Surface and Coatings Technology, 2004, 176, 243-252.	2.2	41
97	Understanding the Influence of SO₂and O₂on the Corrosion of Carbon Steel in Water-Saturated Supercritical CO₂. Corrosion, 2015, 71, 667-683.	0.5	41
98	Wear Mechanisms of Hydrogenated DLC in Oils Containing MoDTC. Tribology Letters, 2016, 64, 1.	1.2	41
99	A Semi-deterministic Wear Model Considering the Effect of Zinc Dialkyl Dithiophosphate Tribofilm. Tribology Letters, 2016, 61, 1.	1.2	41
100	A combined bulk chemistry/electrochemical approach to study the precipitation, deposition and inhibition of CaCO3. Chemical Engineering Science, 2000, 55, 4737-4743.	1.9	40
101	Mo and W as alloying elements in Co-based alloysâ€”their effects on erosionâ€“corrosion resistance. Wear, 2005, 259, 219-229.	1.5	40
102	Development of anti-icing materials by chemical tailoring of hydrophobic textured metallic surfaces. Journal of Colloid and Interface Science, 2013, 394, 539-544.	5.0	40
103	Kinetics study of barium sulphate surface scaling and inhibition with a once-through flow system. Journal of Petroleum Science and Engineering, 2016, 147, 699-706.	2.1	40
104	Impact of silica nanoparticles on the morphology and mechanical properties of sol-gel derived coatings. Surface and Coatings Technology, 2018, 342, 48-56.	2.2	39
105	The role of Ca2+ ions on Ca/Fe carbonate products on X65 carbon steel in CO2 corrosion environments at 80 and 150â€‰Â°C. Corrosion Science, 2019, 156, 58-70.	3.0	38
106	Synovial joint lubrication â€” does nature teach more effective engineering lubrication strategies?. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2007, 221, 1223-1230.	1.1	37
107	In-situ electrochemical study of interaction of tribology and corrosion in artificial hip prosthesis simulators. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 18, 191-199.	1.5	37
108	Investigation of the effect of a diamine-based friction modifier on micropitting and the properties of tribofilms in rolling-sliding contacts. Journal Physics D: Applied Physics, 2016, 49, 505302.	1.3	37

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109	Study of effect of liquid corrosivity in liquid-solid impingement on cast iron and austenitic stainless steel. Corrosion Engineering Science and Technology, 1997, 32, 197-205.	0.3	37
110	Characterization and corrosion behavior of high-chromium white cast irons. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 2339-2347.	1.1	36
111	Exploring the erosive wear of X65 carbon steel by acoustic emission method. Wear, 2013, 301, 370-382.	1.5	36
112	Transient processes of MoS₂ tribofilm formation under boundary lubrication. Lubrication Science, 2016, 28, 449-471.	0.9	36
113	Erosion-corrosion interactions of X65 carbon steel in aqueous CO2 environments. Wear, 2018, 414-415, 376-389.	1.5	36
114	Corrosion behaviour and microstructure of two thermal spray coatings. Surface Engineering, 1996, 12, 303-312.	1.1	35
115	Corrosiveâ€“Abrasive Wear Induced by Soot in Boundary Lubrication Regime. Tribology Letters, 2016, 63, 1.	1.2	35
116	Study of the ZDDP Antiwear Tribofilm Formed on the DLC Coating Using AFM and XPS Techniques. Journal of ASTM International, 2007, 4, 100937.	0.2	35
117	Comparing the performance of HIPed and Cast Stellite 6 alloy in liquidâ€“solid slurries. Wear, 2003, 255, 181-194.	1.5	34
118	Biotribocorrosion of metal-on-metal hip replacements: How surface degradation can influence metal ion formation. Tribology International, 2013, 65, 128-137.	3.0	34
119	DLC-W coatings tested in combustion engine â€” Frictional and wear analysis. Surface and Coatings Technology, 2014, 260, 284-289.	2.2	34
120	Quantitative assessment of colorectal morphology: Implications for robotic colonoscopy. Medical Engineering and Physics, 2016, 38, 148-154.	0.8	34
121	Evaluation of high shear inhibitor performance in CO2-containing flow-induced corrosion and erosion-corrosion environments in the presence and absence of iron carbonate films. Wear, 2018, 404-405, 143-152.	1.5	34
122	Evolution and characterization of the film formed on super 13Cr stainless steel in CO2-saturated formation water at high temperature. Corrosion Science, 2020, 163, 108277.	3.0	33
123	Impact of corrosion products on performance of imidazoline corrosion inhibitor on X65 carbon steel in CO2 environments. Corrosion Science, 2021, 185, 109423.	3.0	33
124	Effect of Low Salinity on the Oil Desorption Efficiency from Calcite and Silica Surfaces. Energy & Fuels, 2017, 31, 11892-11901.	2.5	32
125	On the Transient Decomposition and Reaction Kinetics of Zinc Dialkyldithiophosphate. ACS Applied Materials & Interfaces, 2018, 10, 44803-44814.	4.0	32
126	MoS2 tribofilm distribution from low viscosity lubricants and its effect on friction. Tribology International, 2020, 151, 106531.	3.0	32

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127	Electrochemical investigation of corrosion and wear interactions under fretting conditions. Wear, 2012, 282-283, 52-58.	1.5	31
128	Effects of laser surface melting on erosionâ€“corrosion of X65 steel in liquidâ€“solid jet impingement conditions. Wear, 2016, 362-363, 39-52.	1.5	31
129	Single-asperity study of the reaction kinetics of P-based triboreactive films. Tribology International, 2019, 133, 288-296.	3.0	31
130	Mechanisms of Erosion-Corrosion on a Cobalt-Base Alloy and Stainless-Steel UNS S17400 in Aggressive Slurries. Journal of Materials Engineering and Performance, 2001, 10, 723-730.	1.2	30
131	Determination of particle impacts and impact energy in the erosion of X65 carbon steel using acoustic emission technique. Tribology International, 2013, 65, 161-170.	3.0	30
132	Boro-nitriding coating on pure iron by powder-pack boriding and nitriding processes. Materials Letters, 2016, 176, 261-264.	1.3	30
133	Evidence for the dissolution of molybdenum during tribocorrosion of CoCrMo hip implants in the presence of serum protein. Acta Biomaterialia, 2016, 45, 410-418.	4.1	30
134	Friction and wear of additive manufactured polymers in dry contact. Journal of Manufacturing Processes, 2020, 59, 238-247.	2.8	30
135	Influence of Si- and W- doping on micro-scale reciprocating wear and impact performance of DLC coatings on hardened steel. Tribology International, 2021, 160, 107063.	3.0	30
136	Study of passive film on stainless steels and high grade nickel base alloy using X-ray photoelectron spectroscopy. Corrosion Engineering Science and Technology, 2000, 35, 183-188.	0.3	29
137	Surface and Tribological Characteristics of Tribofilms Formed in the Boundary Lubrication Regime with Application to Internal Combustion Engines. Tribology Letters, 2003, 15, 443-452.	1.2	29
138	Erosionâ€“corrosion degradation mechanisms of Feâ€“Crâ€“C and WCâ€“Feâ€“Crâ€“C PTA overlays in concentrated slurries. Wear, 2009, 267, 1811-1820.	1.5	29
139	Coatings tribology drivers for high density plasma technologies. Surface Engineering, 2010, 26, 80-96.	1.1	29
140	Galvanically enhanced fretting-crevice corrosion of cemented femoral stems. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 40, 275-286.	1.5	29
141	Deposition of Inorganic Carbonate, Sulfate, and Sulfide Scales on Antifouling Surfaces in Multiphase Flow. Energy & Fuels, 2017, 31, 11838-11851.	2.5	29
142	Study of the interfacial mechanism of ZDDP tribofilm in humid environment and its effect on tribochemical wear; Part I: Experimental. Tribology International, 2017, 107, 135-143.	3.0	29
143	Tribochemical study of micropitting in tribocorrosive lubricated contacts: The influence of water and relative humidity. Tribology International, 2017, 107, 184-198.	3.0	29
144	Facile synthesis of vacancy-induced 2H-MoS₂ nanosheets and defect investigation for supercapacitor application. RSC Advances, 2021, 11, 26273-26283.	1.7	29

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145	An experimental and analytical study of the effect of water and its tribochemistry on the tribocorrosive wear of boundary lubricated systems with ZDDP-containing oil. Wear, 2016, 358-359, 23-31.	1.5	28
146	Rheological behavior of multiwalled carbon nanotube-imidazolium tosylate ionic liquid dispersions. Journal of Rheology, 2017, 61, 279-289.	1.3	28
147	Tribocorrosion evaluation of hydrogenated and silicon DLC coatings on carbon steel for use in valves, pistons and pumps in oil and gas industry. Wear, 2018, 394-395, 60-70.	1.5	28
148	Revealing the superior corrosion protection of the passive film on selective laser melted 316L SS in a phosphate-buffered saline solution. Applied Surface Science, 2020, 529, 147170.	3.1	28
149	An experimental evaluation of reverse osmosis membrane performance in oily water. Desalination, 2008, 228, 287-294.	4.0	27
150	Assessing the influence of shear stress and particle impingement on inhibitor efficiency through the application of in-situ electrochemistry in a CO2-saturated environment. Wear, 2013, 304, 49-59.	1.5	27
151	Biotribocorrosion: Some electrochemical observations from an instrumented hip joint simulator. Tribology International, 2013, 59, 332-338.	3.0	27
152	Pitting and Uniform Corrosion of X65 Carbon Steel in Sour Corrosion Environments: The Influence of CO₂, H₂S, and Temperature. Corrosion, 2017, 73, 1168-1183.	0.5	27
153	In-situ friction and wear responses of WS2 films to space environment: Vacuum and atomic oxygen. Applied Surface Science, 2018, 447, 368-373.	3.1	27
154	Corrosion of stainless steels in marine conditions containing sulphate reducing bacteria. Corrosion Engineering Science and Technology, 2000, 35, 60-69.	0.3	26
155	In-Situ SAXS/WAXS and Turbidity Studies of the Structure and Composition of Multihomologousn-Alkane Waxes Crystallized in the Absence and Presence of Flow Improving Additive Species. Crystal Growth and Design, 2004, 4, 1069-1078.	1.4	26
156	Tribochemical Interactions of Friction Modifier and Antiwear Additives With CrN Coating Under Boundary Lubrication Conditions. Journal of Tribology, 2008, 130, .	1.0	26
157	Improved anti-shudder performance of ATFsâ€"Influence of a new friction modifier and surface chemistry. Tribology International, 2012, 46, 62-72.	3.0	26
158	Investigating pitting in X65 carbon steel using potentiostatic polarisation. Applied Surface Science, 2017, 423, 25-32.	3.1	26
159	Effect of lubricant ageing on lubricantsâ€™ physical and chemical properties and tribological performance; Part I: effect of lubricant chemistry. Industrial Lubrication and Tribology, 2018, 70, 385-392.	0.6	26
160	A simple deterministic plastoelastohydrodynamic lubrication (PEHL) model in mixed lubrication. Tribology International, 2019, 131, 520-529.	3.0	26
161	An examination of the electrochemical characteristics of two stainless steels (UNS S32654 and UNS) Tj ETQq1 1 0.784314 rgBT /Ove	1.5	25
162	Effect of Friction Modifiers and Antiwear Additives on the Tribological Performance of a Hydrogenated DLC Coating. Journal of Tribology, 2010, 132, .	1.0	25

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163	Reviewing the technological challenges associated with the development of a laparoscopic palpation device. International Journal of Medical Robotics and Computer Assisted Surgery, 2012, 8, 146-159.	1.2	25
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