

# Ling Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30  
papers

1,124  
citations

14  
h-index

31  
g-index

31  
ext. papers

1,527  
ext. citations

5.9  
avg. IF

5.13  
L-index

#	Paper	IF	Citations
30	A Study on Early Stages of White Etching Crack Formation under Full Lubrication Conditions. <i>Lubricants</i> , <b>2022</b> , 10, 24	3.1	5
29	White Etching Bands Formation Mechanisms due to Rolling Contact Fatigue. <i>Acta Materialia</i> , <b>2022</b> , 232, 117932	8.4	3
28	A Study on Decisive Early Stages in White Etching Crack Formation Induced by Lubrication. <i>Lubricants</i> , <b>2022</b> , 10, 96	3.1	5
27	Carbonate-Induced Electrosynthesis of Hydrogen Peroxide via Two-Electron Water Oxidation.. <i>ChemSusChem</i> , <b>2021</b> ,	8.3	1
26	Effective Hydrogen Peroxide Production from Electrochemical Water Oxidation. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2369-2377	20.1	17
25	Future perspectives for the advancement of electrochemical hydrogen peroxide production. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 30, 100792	7.2	7
24	Recent Advances in Electrochemical Water Oxidation to Produce Hydrogen Peroxide: A Mechanistic Perspective. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 76-91	8.3	22
23	Hydrophobic thiol coatings to facilitate a triphasic interface for carbon dioxide reduction to ethylene at gas diffusion electrodes. <i>Faraday Discussions</i> , <b>2021</b> , 230, 375-387	3.6	2
22	Semi-empirical model for predicting LAB and HAB formation in bearing steels. <i>International Journal of Fatigue</i> , <b>2021</b> , 148, 106230	5	3
21	White etching structures in annealed 52100 bearing steel arising from high-pressure torsion tests. <i>Tribology International</i> , <b>2021</b> , 164, 107187	4.9	1
20	High-Temperature Self-Powered Sensing System for a Smart Bearing in an Aircraft Jet Engine. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 6165-6174	5.2	13
19	Boron-Doped Diamond Electrocatalyst for Enhanced Anodic H <sub>2</sub> O <sub>2</sub> Production. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3169-3173	6.1	23
18	Polymers with intrinsic microporosity (PIMs) for targeted CO reduction to ethylene. <i>Chemosphere</i> , <b>2020</b> , 248, 125993	8.4	14
17	Developments on carbon dioxide reduction: Their promise, achievements, and challenges. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 20, 88-98	7.2	18
16	Re-investigation of dark etching regions and white etching bands in SAE 52100 bearing steel due to rolling contact fatigue. <i>International Journal of Fatigue</i> , <b>2020</b> , 136, 105591	5	9
15	Electrochemical synthesis of hydrogen peroxide from water and oxygen. <i>Nature Reviews Chemistry</i> , <b>2019</b> , 3, 442-458	34.6	235
14	Simulation of rail wheel axle bearing vibration due to local damages on outer races. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , <b>2019</b> , 233, 429-440	0.9	2

13	Further understanding of rolling contact fatigue in rolling element bearings - A review. <i>Tribology International</i> , <b>2019</b> , 140, 105849	4.9	36
12	A Novel Surface Texture Shape for Directional Friction Control. <i>Tribology Letters</i> , <b>2018</b> , 66, 1	2.8	36
11	Numerical analysis and optimization of surface textures for a tilting pad thrust bearing. <i>Tribology International</i> , <b>2018</b> , 124, 134-144	4.9	35
10	A numerical model for design and optimization of surface textures for tilting pad thrust bearings. <i>Tribology International</i> , <b>2018</b> , 119, 190-207	4.9	27
9	Design and Testing of a Sensing System for Aero-Engine Smart Bearings. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 1005	0.3	2
8	Oil-cooled thermoelectric energy harvesting for aero-engine sensing system. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 965	0.3	1
7	Electrostatic monitoring of wind turbine gearbox on oil-lubricated system. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2017</b> , 231, 3649-3664 <sup>1,3</sup>	1.3	10
6	Electron microscopy investigations of microstructural alterations due to classical Rolling Contact Fatigue (RCF) in martensitic AISI 52100 bearing steel. <i>International Journal of Fatigue</i> , <b>2017</b> , 98, 142-154 <sup>5</sup>	5	52
5	The use of anisotropic texturing for control of directional friction. <i>Tribology International</i> , <b>2017</b> , 113, 169-181	4.9	29
4	Microstructural changes in White Etching Cracks (WECs) and their relationship with those in Dark Etching Region (DER) and White Etching Bands (WEBs) due to Rolling Contact Fatigue (RCF). <i>International Journal of Fatigue</i> , <b>2017</b> , 100, 148-158	5	53
3	Hydrodynamic lubrication of textured surfaces: A review of modeling techniques and key findings. <i>Tribology International</i> , <b>2016</b> , 94, 509-529	4.9	44 <sup>8</sup>
2	Experimental and Simulation Studies of Strength and Fracture Behaviors of Wind Turbine Bearing Steel Processed by High Pressure Torsion. <i>Energies</i> , <b>2016</b> , 9, 1033	3.1	3
1	Evaluation of Methods for Viscosity Simulations of Lubricants at Different Temperatures and Pressures: A Case Study on PAO-2. <i>Tribology Transactions</i> , 1-26	1.8	10