

# Ling Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3781622/publications.pdf>

Version: 2024-02-01

31  
papers

2,025  
citations

471371

17  
h-index

434063

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1710  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrodynamic lubrication of textured surfaces: A review of modeling techniques and key findings. Tribology International, 2016, 94, 509-529.	3.0	610
2	Electrochemical synthesis of hydrogen peroxide from water and oxygen. Nature Reviews Chemistry, 2019, 3, 442-458.	13.8	544
3	Further understanding of rolling contact fatigue in rolling element bearings - A review. Tribology International, 2019, 140, 105849.	3.0	92
4	Electron microscopy investigations of microstructural alterations due to classical Rolling Contact Fatigue (RCF) in martensitic AISI 52100 bearing steel. International Journal of Fatigue, 2017, 98, 142-154.	2.8	77
5	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). International Journal of Fatigue, 2017, 100, 148-158.	2.8	72
6	Effective Hydrogen Peroxide Production from Electrochemical Water Oxidation. ACS Energy Letters, 2021, 6, 2369-2377.	8.8	60
7	Recent Advances in Electrochemical Water Oxidation to Produce Hydrogen Peroxide: A Mechanistic Perspective. ACS Sustainable Chemistry and Engineering, 2021, 9, 76-91.	3.2	59
8	Numerical analysis and optimization of surface textures for a tilting pad thrust bearing. Tribology International, 2018, 124, 134-144.	3.0	55
9	Boron-Doped Diamond Electrocatalyst for Enhanced Anodic H <sub>2</sub> O <sub>2</sub> Production. ACS Applied Energy Materials, 2020, 3, 3169-3173.	2.5	54
10	A Novel Surface Texture Shape for Directional Friction Control. Tribology Letters, 2018, 66, 1.	1.2	53
11	Developments on carbon dioxide reduction: Their promise, achievements, and challenges. Current Opinion in Electrochemistry, 2020, 20, 88-98.	2.5	44
12	The use of anisotropic texturing for control of directional friction. Tribology International, 2017, 113, 169-181.	3.0	39
13	A numerical model for design and optimization of surface textures for tilting pad thrust bearings. Tribology International, 2018, 119, 190-207.	3.0	37
14	Polymers with intrinsic microporosity (PIMs) for targeted CO <sub>2</sub> reduction to ethylene. Chemosphere, 2020, 248, 125993.	4.2	30
15	High-Temperature Self-Powered Sensing System for a Smart Bearing in an Aircraft Jet Engine. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6165-6174.	2.4	25
16	Evaluation of Methods for Viscosity Simulations of Lubricants at Different Temperatures and Pressures: A Case Study on PAO-2. Tribology Transactions, 2021, 64, 1138-1148.	1.1	22
17	Electrostatic monitoring of wind turbine gearbox on oil-lubricated system. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 3649-3664.	1.1	19
18	Future perspectives for the advancement of electrochemical hydrogen peroxide production. Current Opinion in Electrochemistry, 2021, 30, 100792.	2.5	18

#	ARTICLE	IF	CITATIONS
19	Carbonate-Induced Electrosynthesis of Hydrogen Peroxide via Two-Electron Water Oxidation. ChemSusChem, 2022, 15, .	3.6	18
20	White etching bands formation mechanisms due to rolling contact fatigue. Acta Materialia, 2022, 232, 117932.	3.8	18
21	Re-investigation of dark etching regions and white etching bands in SAE 52100 bearing steel due to rolling contact fatigue. International Journal of Fatigue, 2020, 136, 105591.	2.8	17
22	Hydrophobic thiol coatings to facilitate a triphasic interface for carbon dioxide reduction to ethylene at gas diffusion electrodes. Faraday Discussions, 2021, 230, 375-387.	1.6	10
23	Electrical Discharges in Oil-Lubricated Rolling Contacts and Their Detection Using Electrostatic Sensing Technique. Sensors, 2022, 22, 392.	2.1	9
24	A Study on Early Stages of White Etching Crack Formation under Full Lubrication Conditions. Lubricants, 2022, 10, 24.	1.2	9
25	A Study on Decisive Early Stages in White Etching Crack Formation Induced by Lubrication. Lubricants, 2022, 10, 96.	1.2	9
26	Semi-empirical model for predicting LAB and HAB formation in bearing steels. International Journal of Fatigue, 2021, 148, 106230.	2.8	7
27	White etching structures in annealed 52100 bearing steel arising from high-pressure torsion tests. Tribology International, 2021, 164, 107187.	3.0	5
28	Experimental and Simulation Studies of Strength and Fracture Behaviors of Wind Turbine Bearing Steel Processed by High Pressure Torsion. Energies, 2016, 9, 1033.	1.6	4
29	Design and Testing of a Sensing System for Aero-Engine Smart Bearings. Proceedings (mdpi), 2019, 2, .	0.2	4
30	Simulation of rail wheel axle bearing vibration due to local damages on outer races. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2019, 233, 429-440.	0.5	4
31	Oil-cooled thermoelectric energy harvesting for aero-engine sensing system. Proceedings (mdpi), 2018, 2, .	0.2	1