1. **Study of Pocket Pressure and Load Bearing Capacity in Pocket Type Hydrostatic Bearing Under Rotation**

Aravindan, S. (Indira Gandhi Centre for Atomic Research, Tamilnadu, Kalpakkam; 603102, India); Sreedharan, K.V.; Partha Sarathy, U.; John Arul, A. **Source:** *Lecture Notes in Mechanical Engineering*, p 431-444, 2024, *Fluid Mechanics and Fluid Power - Select Proceedings of FMFP 2022*
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

2. **Dynamic Modeling of Rolling Bearing Outer Ring Failure with Time-Varying Excitation Under Contact Deformation**

Wu, Yangbiao (School of Mechanical Engineering, Inner Mongolia University of Science and Technology, Baotou; 014010, China); Zhang, Chao; Wang, Jianguo; Xu, Shuai **Source:** *Mechanisms and Machine Science*, v 151 MMS, p 777-783, 2024, *Proceedings of the UNIfied Conference of DAMAS, IncoME and TEPEN Conferences (UNIfied 2023) - Volume 1*
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

3. **Study of Wear in Subminiature Thrust Rolling Bearing** (*Open Access*)

Kusznierewicz, Z. (Faculty of Mechatronics, Institute of Micromechanics and Photonics, Warsaw University of Technology, ±w. A. Boboli 8, Warsaw; 02-525, Poland); Michalowski, M.; Luczak, S.; Chanko, A.; Samsel, M.; Zarzycki, M.; Barczyk, R.; Kabzinski, B. **Source:** *Acta Physica Polonica A*, v 146, n 4, p 646-649, October 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

4. **Influence of Wear on Surface Crack Growth of PPS Thrust Bearing in Water Lubrication under 2300 N at 1200 rpm** (*Open Access*)

Kajiwara, Shuhei (University of Toyama, Gofuku 3190, Toyama; 930-8555, Japan); Machino, Sasuga; Kida, Katsuyuki **Source:** *Journal of Physics: Conference Series*, v 2892, n 1, 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

5. **Optimization of Restrictor Parameters and Static Characteristics Study on Orifice Type Hydrostatic Thrust Bearing** (*Open Access*)

Chen, Yuanlong (School of Mechanical Engineering, Hefei University of Technology, Hefei; 230009, China); Wen, Xinyu; Wang, Yuqing; Wu, Muyao; Zhou, Jiarui; Wanyan, Shaoqi **Source:** *Mechanika*, v 30, n 6, p 507-513, 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

6. **Simulation and Experimental on Thermal Behavior of Hydrostatic Thrust Bearing Based on Superhydrophobic/Oleophobic Surface**

Guo, Minghui (State Key Laboratory of Intelligent Manufacturing Equipment and Technology, School of Mechanical Science and Engineering, Huazhong University of Science and Technology, Wuhan; 430074, China); Zhang, Guojun; Hu, Haidong; Tian, Zhuxin; Rong, Youmin; Huang, Yu; Wu, Congyi **Source:** *Journal of Tribology*, v 146, n 11, November 1, 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

7. Adapting geometry-based polygonal contacts for simulating faulty rolling bearing dynamics (*Open Access*)

Vehviläinen, Milla (VTT Technical Research Centre of Finland Ltd., P.O. Box 1000, VTT; FI-02044, Finland); Rahkola, Pekka; Keränen, Janne; Halme, Jari; Sopanen, Jussi; Liukkonen, Olli; Holopainen, Antti; Tammi, Kari; Belahcen, Anouar **Source:** *Mechanism and Machine Theory*, v 192, February 2024
Open Access type(s): All Open Access, Hybrid Gold, Green
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

8. Dynamic modeling and analysis of rolling bearing faults under time-varying excitations considering defect deformation (*Open Access*)

Zhang, Chao (School of Mechanical Engineering, Inner Mongolia University of Science and Technology, Baotou; 014010, China); Wu, Yangbiao; Xu, Shuai; Qin, Feifan; Wu, Le; Ouyang, Bing **Source:** *Journal of Vibroengineering*, v 26, n 4, p 776-792, 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

9. Real-time bearing fault classification of induction motor using enhanced inception ResNet-V2 (*Open Access*)

Kumar, Karan K. (Vellore Institute of Technology, Vellore, India); Mandava, Srihari **Source:** *Applied Artificial Intelligence*, v 38, n 1, 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

10. Coupling effect of partial composite texture and thermal effect on the performance of hydrostatic bearing

Chen, Dongju (Mechanical Industry Key Laboratory of Heavy Machine Tool Digital Design and Testing, Beijing Key Laboratory of Advanced Manufacturing Technology, College of Mechanical & Energy Engineering, Beijing University of Technology, Beijing, China); Cui, Yu; Sun, Kun; Fan, Jinwei; Cheng, Kai **Source:** *Lubrication Science*, v 36, n 5, p 407-419, August 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

11. Thermal Characteristics of Oil Film in Critical Lubrication State of Heavy Hydrostatic Bearing

Yanqin, Zhang (College of Mechanical Engineering, Nanjing Institute of Technology, Nanjing, China); Ye, Wu; Jiabao, Li; Mulan, Wang; Zhen, Quan **Source:** *Recent Patents on Mechanical Engineering*, v 17, n 4, p 304-311, 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

12. Numerical investigation on the effects of crooked shaft washer of single row thrust ball bearing on its vibrational response

Razavian, Hosein (Mechanical Engineering Department, Bu-Ali Sina University, Iran); Shooshtari, Alireza **Source:** *JVC/Journal of Vibration and Control*, v 30, n 3-4, p 531-544, February 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

13. Dynamic Performance of Spacecraft Flywheel Ball Bearing with Different Type and Distribution of Cage Pocket Shape

Gao, Shuai (Tsinghua University, Beijing; 100084, China); Liu, Lanyu; Han, Qinkai **Source:** *Mechanisms and Machine Science*, v 139, p 309-319, 2024, *Proceedings of the 11th IFToMM International Conference on Rotordynamics - Volume 1*
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

14. Vibration properties of full ceramic bearing under elastohydrodynamic fluid lubrication based on the energy approach (*Open Access*)

Wu, Yuhou (School of Mechanical Engineering, Shenyang Jianzhu University, Liaoning, Shenyang; 110168, China); Guo, Jiancheng; Zhang, Xiaochen; Zhou, Peng; Meng, Weiying; Bai, Xu; Lu, He **Source:** *Case Studies in Thermal Engineering*, v 64, December 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

15. Experimental study on the influence of flexible structure and gas supply method on the characteristics of aerostatic tilting-pad bearing

Huang, LingFeng (School of Mechanical Engineering and Automation, Shanghai University, Shanghai, China); Zhu, Liming; Yi, Shuxiang; Zhang, Xiaohan; Wang, Xiaojing; Li, Xiangyu **Source:** *Industrial Lubrication and Tribology*, 2024 Article in Press
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

16. Characterization of Thermal Conductance Between a Ball and Parallel Plates for Spacecraft Bearing Applications

Walsh, Natalie F. (Thermal Control Department, The Aerospace Corporation, El Segundo; CA; 90245, United States); Takeuchi, Yoshimi R.; Zhang, Zhuomin M.; McHale, John P. **Source:** *AIAA Aviation Forum and ASCEND, 2024*, 2024, *AIAA Aviation Forum and ASCEND, 2024*
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

17. Ultra-Robust and High-Performance Rotational Triboelectric Nanogenerator by Bearing Charge Pumping (*Open Access*)

Fu, Xianpeng (CAS Center for Excellence in Nanoscience, Beijing Key Laboratory of Micro-nano Energy and Sensor, Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences, Beijing; 101400, China); Qin, Yuhan; Zhang, Zhi; Liu, Guoxu; Cao, Jie; Fan, Beibei; Wang, Zhaozheng; Wang, Zheng; Zhang, Chi **Source:** *Energy and Environmental Materials*, v 7, n 2, March 2024
Open Access type(s): All Open Access, Hybrid Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

18. Commercial road vehicles — Ball-bearing turntable — Interchangeability

Source: *BSI - Standards*, p 1-4, April 12, 2024
Versions: 1
Status: Active - Definitive
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

19. Long-Term Investigations of Different Bearing Configurations at Solid-Lubricated Rolling Bearings (*Open Access*)

Werner, Michel (RPTU Kaiserslautern Landau, Institute of Machine Elements, Gears and Tribology, Kaiserslautern, Germany); Emrich, Stefan; Koch, Oliver; Sauer, Bernd; Kopnarski, Michael **Source:** *Tribology Transactions*, v 67, n 3, p 401-410, 2024
Open Access type(s): All Open Access, Hybrid Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

20. Dynamic Characteristics Analysis of Wind Turbine Gear System Considering Bearing Defects

Zhao, Lijuan (School of Mechanical Engineering, Ningxia Institute of Science and Technology, Shizuishan, China); Yang, Hexu **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 13081, 2024, *Third International Conference on Advanced Manufacturing Technology and Electronic Information, AMTEI 2023*
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

21. A Novel 3d Design of the Hydrodynamic Pocketed Thrust Bearing with Slip Engineered for Eliminating Cavitation

Syafaat, Imam (Department of Mechanical Engineering, Faculty of Engineering, Universitas Wahid Hasyim, Jln. Raya Gunungpati KM. 15, Nongkosawit, Gunungpati, Semarang; 50224, Indonesia); Nugroho, Agung; Sodikin, Muchammad; Hida, Ajib Akmal; Ratnani, Rita Dwi; Setiyana, Budi; Muchammad, Muchammad; Tauviqirrahman, Mohammad **Source:** *SSRN*, August 19, 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

22. Simulation and Experimental Research on Rolling Bearing with Rolling Body Defect under Starved Lubrication Condition

Huo, Zhongtang (Mechanical and Electrical College, Handan University, Handan; 056000, China); Chen, Jianqi; Hao, Lingjuan; Gao, Jiansong **Source:** *Journal of Failure Analysis and Prevention*, v 24, n 6, p 2794-2805, December 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

23. Durability of Aircraft Gas Turbine Mainshaft Ball Bearing Applying Surface and Subsurface Survival (*Open Access*)

Morales-Espejel, Guillermo Enrique (SKF Research and Technology Development, Meidoornkade 14, Houten; 3992 AE, Netherlands); Misiaszek, Matthew; Lengagne, Thomas; Guo, Liang **Source:** *Tribology Online*, v 19, n 6, p 573-583, 2024
Open Access type(s): All Open Access, Gold, Green
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

24. A 3D design of the hydrodynamic pocketed thrust bearing with slip engineered for eliminating cavitation (*Open Access*)

Syafaat, Imam (Department of Mechanical Engineering, Faculty of Engineering, Universitas Wahid Hasyim, Jln. Raya Gunungpati KM. 15, Nongkosawit, Gunungpati, Semarang; 50224, Indonesia); Nugroho, Agung; Sodikin, Muchammad; Hida, Ajib Akmal; Ratnani, Rita Dwi; Setiyana, Budi; Muchammad, Muchammad; Tauviqirrahman, Mohammad **Source:** *Results in Engineering*, v 24, December 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

25. Multiscale hydrodynamics in thrust bearing involving surface roughness

Huang, Chen (College of Mechanical Engineering, Changzhou University, Jiangsu Province, Changzhou, China); Zhang, Yongbin **Source:** *Continuum Mechanics and Thermodynamics*, v 36, n 3, p 445-458, May 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

26. Time-variant reliability analysis of angular contact ball bearing considering the coupled effect of rolling contact fatigue damage and wear

Xie, Bin (School of Mechanical Engineering and Automation, Beihang University, Beijing; 100191, China); Wang, Yanzhong; Zhu, Yunyi; Liu, Peng; Wu, Yu; Lu, Fengxia **Source:** *Reliability Engineering and System Safety*, v 241, January 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

27. Rolling contact fatigue analysis of the soft zone for the main bearing in a tunnel boring machine

Wang, Xinqi (School of Mechanical Engineering, Dalian University of Technology, No. 2, Linggong Road, Ganjingzi District, Liaoning Province, Dalian; 116024, China); Sun, Wei; Wang, Lintao; Liang, Shihu; Chi, Huashan; Yuan, Bo **Source:** *Engineering Failure Analysis*, v 162, August 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

28. Relating rolling contact fatigue (RCF) life to the microstructure evolution in aerospace grade bearing steels: A comparison of Cronidur-30 with AISI 440C

Rejith, R. (Bearings and Space Tribology Group, ISRO Inertial Systems Unit, Vattiyoorkavu, Trivandrum; 695013, India); Arivu, Y.; Kesavan, D.; Chakravarthy, P.; Narayana Murty, S.V.S. **Source:** *International Journal of Fatigue*, v 186, September 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

29. Advancing the understanding of short fatigue crack propagation: Leveraging ultrasonic testing device to approach rolling contact fatigue (*Open Access*)

Didier, Adrien (INSA Lyon, CNRS, LaMCoS, UMR 5259, Villeurbanne; 69621, France); Naouar, Naim; Deterre, Geoffray; Chaudet, Philippe; Nelias, Daniel **Source:** *Materialia*, v 38, December 2024
Open Access type(s): All Open Access, Hybrid Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

30. Micromechanical response of dual-hardening martensitic bearing steel before and after rolling contact fatigue (*Open Access*)

Loaiza, Tania (Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm, SE 100 44, Sweden); Fischer, Tim; Babu, Revathy Prasath; Hedström, Peter **Source:** *Journal of Materials Research and Technology*, v 29, p 4728-4734, March 1, 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

31. A rolling contact fatigue life prediction model for bearing steel considering its gradient structure due to cyclic hardening

Zhao, Yue (School of Mechanical Electronic & Control Engineering, Beijing Jiaotong University, Beijing, China); Wang, Xi; Guo, Rubing; Sun, Shouguang **Source:** *International Journal of Damage Mechanics*, v 33, n 4, p 293-309, April 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

32. A multiaxial fatigue method for rolling contact fatigue life prediction of axle box bearing under wheel-rail excitation conditions

Zhao, Yue (School of Mechanical Electronic & Control Engineering, Beijing Jiaotong University, Beijing; 100044, China); Hou, Yu; Wang, Xi; Wei, Jiaqi; Shi, Huailong; Sha, Chengyu; Sun, Shouguang **Source:** *Engineering Failure Analysis*, v 159, May 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

33. Study on predicting rolling contact fatigue of pitch bearing raceway in offshore wind turbine

He, Haifeng (School of Mechanical and Electrical Engineering, Guizhou Normal University, 550025, China); Chen, Yiming; Jin, Xin; Liu, Heli; Wang, Chunmei **Source:** *International Journal of Fatigue*, v 184, July 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

34. IKonPro®: A software for the probabilistic prediction of rolling contact fatigue (*Open Access*)

Escalero, Mikel (Ikerlan Technology Research Center, Basque Research and Technology Alliance, Spain); Olave, Mireia; Behnke, Karsten; Muñiz-Calvente, Miguel **Source:** *Journal of Physics: Conference Series*, v 2692, n 1, 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

35. Modelling micropit formation in rolling contact fatigue of bearings with a crystal plasticity damage theory coupled with cohesive finite elements

Han, Xinqi (School of Mechanical Engineering and Mechanics, Key Laboratory of Part Rolling of Zhejiang Province, Ningbo; 315211, China); Li, Shuxin; Sun, Chengqi; Lu, Siyuan **Source:** *Engineering Fracture Mechanics*, v 297, February 21, 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

36. Rolling contact fatigue failure mechanism of bearing steel on different surface roughness levels under heavy load

Xia, Zhuofan (School of Materials Science and Engineering, University of Science and Technology of China, 72 Wenhua Road, Shenyang; 110016, China); Wu, Di; Zhang, Xiaochen; Wang, Jianqiu; Han, En-Hou **Source:** *International Journal of Fatigue*, v 179, February 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

37. Fundamental relationship between rolling contact fatigue driven surface damage and torsional fatigue

Singh, Kushagra (School of Mechanical Engineering, Purdue University, West Lafayette; IN; 47907, United States); Sadeghi, Farshid **Source:** *International Journal of Mechanical Sciences*, v 264, February 15, 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

38. On the influence of secondary branches on crack propagation in rolling contact fatigue (*Open Access*)

Zaid, Mael (Airbus Helicopters, Aéroport International Marseille Provence, Marignane; 13700, France); Doquet, Véronique; Chiaruttini, Vincent; Depouhon, Pierre; Bonnand, Vincent; Pacou, Didier **Source:** *International Journal of Fatigue*, v 182, May 2024
Open Access type(s): All Open Access, Green
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

39. A Study on the Damage Behavior of Hybrid 60 and 52100 Steel during Rolling Contact Fatigue

Loaiza, Tania (Dept. of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm; SE 100 44, Sweden); Ooi, Steve; Babu, Revathy Rajan Prasath; Ölund, Patrik; Hedström, Peter **Source:** *ASTM Special Technical Publication*, v STP 1649, p 525-540, 2024, *Bearing and Transmission Steels Technology*
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

40. Observation of wear around surface crack of PEEK thrust bearing under rolling contact fatigue in water (*Open Access*)

Machino, Sasuga (University of Toyama, Gofuku, Toyama; 3190, Japan); Shinkai, Shogo; Matsueda, Takahiro; Mizobe, Koshiro; Kida, Katsuyuki **Source:** *Journal of Physics: Conference Series*, v 2845, n 1, 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

41. Microstructural decay of matrix and precipitates during rolling contact fatigue in a martensitic dual-hardening bearing steel (*Open Access*)

Loaiza, Tania (Department of Materials Science and Engineering, KTH Royal Institute of Technology, Stockholm; SE 100 44, Sweden); Ooi, Steve; Yildiz, Ahmet Bahadir; Dahlström, Alexander; Babu, R. Prasath; Hedström, Peter **Source:** *Materials and Design*, v 244, August 2024
Open Access type(s): All Open Access, Gold, Green
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

42. Effect of primary carbides on rolling contact fatigue behaviors of M50 bearing steel

Shao, Ziheng (Institute of Metal Research, Chinese Academy of Sciences, Shenyang; 110016, China); Zhu, Yankun; Zhang, Peng; Cao, Yanfei; Wang, Bin; Xu, Zikuan; Liu, Hanzhong; Gu, Xuezhong; Liu, Hongwei; Li, Dianzhong; Zhang, Zhefeng **Source:** *International Journal of Fatigue*, v 179, February 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

43. Relating Rolling Contact Fatigue Life to the Microstructure Evolution in Cronidur-30 Bearing Steel

Rejith, R. (Bearings and Space Tribology Group, ISRO, Inertial Systems Unit, Vattiyoorkavu, Trivandrum; 695013, India); Arivu, Y.; Kesavan, D.; Chakravarthy, P.; Narayana Murty, S.V.S. **Source:** *SSRN*, February 18, 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

44. Exploring the ultrahigh rolling contact fatigue life of M50 bearing steel by adjusting the cryogenic sequence (*Open Access*)

Cai, Xin (Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, Shenyang; 110016, China); Hu, Xiaoqiang; Lu, Xingyu; Liu, Hongwei; Cao, Yanfei; Li, Dianzhong **Source:** *Journal of Materials Science and Technology*, v 169, p 243-250, January 10, 2024
Open Access type(s): All Open Access, Hybrid Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

45. Review of rolling contact fatigue life calculation for oscillating bearings and application-dependent recommendations for use (*Open Access*)

Menck, Oliver (Fraunhofer Institute for Wind Energy Systems Iwes, Am Schleusengraben 22, Hamburg; 21029, Germany); Stammler, Matthias **Source:** *Wind Energy Science*, v 9, n 4, p 777-798, April 5, 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

46. Extended crack propagation in nitrided and carburised steels subject to rolling contact fatigue

Lecouffe, A. (INSA Lyon, CNRS, LaMCoS, UMR5259, Villeurbanne; 69621, France); Kleber, X.; Ville, F.; Cavoret, J.; Zamponi, L.; Ruellan, A. **Source:** *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, v 238, n 12, p 1626-1632, December 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

47. Microstructure effects on improving rolling contact fatigue by a double-quenching heat treatment process for GCr15 steel

Zhang, Wenhu (School of Mechatronics Engineering, Henan University of Science and Technology, Luoyang; 471000, China); Li, Wanjia; Liu, He; He, Tiantian; Deng, Sier; Tian, Heng; Cao, Wenquan **Source:** *Tribology International*, v 194, June 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

48. Rolling Contact Fatigue Life and Categorization of Failure in Experiment of Flat PEEK Race-Alumina Ball Bearings in Water Lubrication under 1700 N at 1000 rpm (*Open Access*)

Matsubayashi, Soji (University of Toyama, Gofuku, Toyama; 3190, Japan); Kajiwara, Shuhei; Matsueda, Takahiro; Kida, Katsuyuki **Source:** *Journal of Physics: Conference Series*, v 2845, n 1, 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

49. Peridynamic modeling of hydrogen-assisted white etching cracks in bearing steel under rolling contact fatigue (*Open Access*)

Wang, Lanwen (Department of Mechanical Engineering, Tsinghua University, Beijing; 100084, China); Sheng, Xuanyu; Yao, Zhimeng; Luo, Jianbin **Source:** *International Journal of Fatigue*, v 173, August 2023
Open Access type(s): All Open Access, Hybrid Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

50. Influence of MnS inclusion characteristics on generation of white etching cracks in 100Cr6 bearing steel

Kiranbabu, Srikakulapu (Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf; 40237, Germany); Morsdorf, Lutz; Gonzalez, Ivan; Kölling, Michael; Broß, Christian; Ponge, Dirk; Herbig, Michael; Mayweg, David **Source:** *Wear*, v 534-535, December 15, 2023
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

51. The Formation of White Etching Cracks Under Various Conditions in an Electrical Environment =

Zurcher, Manuel (Friedrich-Alexander-Universitaet Erlangen-Nuernberg (Germany)) **Source:** *ProQuest Dissertations and Theses Global*, 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

52. White etching area damage induced by shear localization in rolling contact fatigue of bearing steel

Chen, Jin-Hua (School of Mechanical Engineering and Mechanics, Key Laboratory of Impact and Safety Engineering of Ministry of Education Ningbo University, Ningbo, China); Xie, Chao; Li, Shu-Xin; Lu, Si-Yuan **Source:** *Fatigue and Fracture of Engineering Materials and Structures*, v 47, n 1, p 170-186, January 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

53. Influence of additive-derived reaction layers on white etching crack failure of SAE 52100 bearing steel under rolling contact loading

Steinweg, Florian (Institute for Materials Applications in Mechanical Engineering, RWTH Aachen University, Augustinerbach 4, Aachen; 52062, Germany); Mikitisin, Adrian; Janitzky, Thomas L.M.; Richter, Silvia; Weirich, Thomas E.; Mayer, Joachim; Broeckmann, Christoph **Source:** *Tribology International*, v 180, February 2023
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

54. Microstructure characteristics and formation mechanisms of white etching layer (WEL) and brown etching layer (BEL) on martensite bearing raceway (*Open Access*)

Zhang, Xiaochen (School of Materials Science and Engineering, University of Science and Technology of China, 72 Wenhua Road, Shenyang; 110016, China); Wu, Di; Xia, Zhuofan; Zhang, Yaming; Li, Yifeng; Wang, Jianqiu; Han, En-Hou **Source:** *Journal of Materials Research and Technology*, v 25, p 4876-4887, July 1, 2023
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

55. Simulation study of Rayleigh wave inspection of subsurface white etching crack in bearing rollers (*Open Access*)

Wu, Chenchen (School of Mechatronic and Automation Engineering, Shanghai University, Shanghai; 200444, China); Zhu, Qi; Su, Zhan; Xu, Duo; Zhang, Haiyan **Source:** *Journal of Physics: Conference Series*, v 2822, n 1, 2024
Open Access type(s): All Open Access, Gold
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

56. Angular contact ball bearing skidding mechanism analysis and diagnosis considering flexible rotor characteristics

Ma, Leiming (College of Automation Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing; 210016, China); Jiang, Bin; Lu, Ningyun; Xiao, Lingfei; Guo, Qintao **Source:** *Mechanical Systems and Signal Processing*, v 207, January 15, 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

57. Multiscale modelling and simulation of subsurface carbide deformation during the formation of white etching areas

Peela, Agastya (Institute for Materials Applications in Mechanical Engineering (IWM), RWTH Aachen University, Augustinerbach 4, Aachen; 52062, Germany); Spille, Joshua; Steinweg, Florian; Janitzky, Thomas; Schwedt, Alexander; Mayer, Joachim; Broeckmann, Christoph **Source:** *Wear*, v 512-513, January 15, 2023
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

58. Investigation on skidding behavior of a lubricated rolling bearing with fluid–solid-heat coupling effect

Liu, Yuqing (State Key Laboratory of Rail Transit Vehicle System, Southwest Jiaotong University, Chengdu; 610031, China); Chen, Zaigang; Zhai, Wanming; Lei, Yaguo **Source:** *Mechanical Systems and Signal Processing*, v 206, January 1, 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

59. Investigation on Skidding Characteristics and Dynamic Responses of Rolling Element Bearing Under Thermal Elastohyrodynamic Lubrication

Kang, Jianxiong (Lanzhou University of Technology, School of Mechanical & Electrical Engineering, Lanzhou; 730050, China); Luo, Wei; Yan, Changfeng; Liu, Yaofeng; Lü, Yanjun; Wu, Lixiao **Source:** *SSRN*, November 8, 2023
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

60. Study of Skidding and Friction Torque for a Deep Groove Ball Bearing in a Permanent Magnet Synchronous Motor

Xu, Yajun (School of Marine Science and Technology, Northwestern Polytechnical University, Xi'an, China); Li, Xinbin; Liu, Jing **Source:** *Lecture Notes in Mechanical Engineering*, p 1797-1806, 2024, *Proceedings of the 2nd International Conference on Mechanical System Dynamics - ICMSD 2023*
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

61. Skidding and spinning investigation for dry-lubricated angular contact ball bearing under combined loads (*Open Access*)

Zhao, Yuhao (State Key Laboratory for Manufacturing and Systems Engineering, Xi'an Jiaotong University, Xi'an; 710049, China); Ma, Zikui; Zi, Yanyang **Source:** *Friction*, v 11, n 11, p 1987-2007, November 2023
Open Access type(s): All Open Access, Gold, Green
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

62. Effect of dented residual stress on the surface-defect-induced pitting under rolling contact loading of M50 bearing steel

Li, Wanjia (School of Mechatronics Engineering, Harbin Institute of Technology, Heilongjiang, Harbin; 150001, China); Meng, Xiangxu; Shu, Kun; Zheng, Dezhi; Wang, Tingjian; Gu, Le; Wang, Liqin; Zhang, Chuanwei **Source:** *Tribology International*, v 194, June 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

63. Influence of White Etching Bands Formation on Integrity of Rolling Element Bearings (*Open Access*)

El Laithy, Mostafa (National Center for Advanced Tribology at Southampton (nCATS), University of Southampton, University Road, Southampton; SO17 1BJ, United Kingdom); Wang, Ling; Harvey, Terry J.; Vierneusel, Bernd **Source:** *Tribology Online*, v 18, n 6, p 373-384, October 31, 2023
Open Access type(s): All Open Access, Gold, Green
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

64. Experimental research on heat treatment process and performance of GCr15 steel bearing ring for new energy vehicle drive motor

Yang, Jianxi (College of Sino-German, Taizhou Vocational & Technical College, Zhejiang, Taizhou; 318000, China); Lin, Haibo; Zhang, Hongwei **Source:** *Proceedings of SPIE - The International Society for Optical Engineering*, v 12983, 2024, *Second International Conference on Electrical, Electronics, and Information Engineering, EEIE 2023*
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

65. A nonlinear dynamic analysis of skidding behavior in rolling bearings using lubricant traction coefficients and cage flexibility

Atef, Mahmoud M. (Industrial and Manufacturing Engineering Department, School of Innovative Design Engineering, Egypt-Japan University of Science and Technology, New Borg El-Arab City; 21934, Egypt); Khair-Eldeen, Wael; Yan, Jiwang; Nassef, Mohamed G.A. **Source:** *Tribology International*, v 197, September 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

66. A study on the three key concepts of White Etching Crack failure mode in its very early stages - Contrast with different testing methods (*Open Access*)

López-Uruñuela, Fernando José (Tekniker, Basque Research and Technology Alliance (BRTA), C/ Iñaki Goenaga, 5, Eibar; 20600, Spain); Wang, Ling; Fernández, Beatriz; Aguirrebeitia, Josu; Pinedo, Bihotz **Source:** *Wear*, v 530-531, October 15, 2023
Open Access type(s): All Open Access, Green
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

67. Characteristics of vibration response of ball bearing with local defect considering skidding

Tian, Yu (School of Mechanical and Electrical Engineering, Lanzhou University of Technology, Lanzhou; 730050, China); Yan, Changfeng; Liu, Yaofeng; Luo, Wei; Kang, Jianxiong; Wang, Zonggang; Wu, Lixiao **Source:** *Journal of Mechanical Science and Technology*, v 37, n 11, p 5695-5711, November 2023
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

68. Measurement of Internal Residual Stress of Three-Directional Components and Estimation of Inherent Strain in Carburized Steel for Large Rolling Bearings by Combining the Contour Method and XRD Method (*Open Access*)

Tsutsumi, Masako (Core Technology R&D Center, NSK Ltd., Fujisawa; 251-8501, Japan); Yamagami, Shota; Narasaki, Kunio; Watanuki, Daisuke; Miyamoto, Yuji; Ma, Ninshu **Source:** *Materials Transactions*, v 65, n 9, p 1099-1107, September 1, 2024
Open Access type(s): All Open Access, Bronze
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

69. Skidding behavior of lubricated rolling element bearings under the influence of oil film and radial clearances (*Open Access*)

Xu, Minmin (School of Mechanical Engineering, Guangxi University, Nanning; 530004, China); Wang, Mingchun; He, Dong; Ding, Xiaoxi; Shao, Yimin; Gu, Fengshou **Source:** *Tribology International*, v 194, June 2024
Open Access type(s): All Open Access, Green
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

70. Roller Bearing Skidding for Aero-Engine Applications: All-Steel Versus Hybrid Bearings

Dadouche, Azzedine (Aerospace Research Centre, National Research Council of Canada, Ottawa; ON; K1A 0R6, Canada); Kerrouche, Rami **Source:** *Journal of Engineering for Gas Turbines and Power*, v 145, n 1, February 1, 2023
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

71. Dynamic, thermal, and vibrational analysis of ball bearings with over-skidding behavior (*Open Access*)

Gao, Shuai (Department of Mechanical Engineering, Politecnico di Milano, Via G. La Masa 1, Milan; 20156, Italy); Han, Qinkai; Pennacchi, Paolo; Chatterton, Steven; Chu, Fulei **Source:** *Friction*, v 11, n 4, p 580-601, April 2023
Open Access type(s): All Open Access, Gold, Green
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

72. Thoughts on a standardized FE-8 Test for the assessment of the WEC-carrying capacity of lubricants in rolling bearings

Leimann, Dirk-Olaf (Düsseldorfer Straße 4, Moers; 47441, Germany) **Source:** *Tribologie und Schmierungstechnik*, v 71, n 3, p 32-39, 2024
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.

73. **The effect of current and lambda on white-etch-crack failures** (*Open Access*)

Demas, Nicholaos G. (Argonne National Laboratory, United States); Lorenzo-Martin, Cinta; Luna, Ryan; Erck, Robert A.; Greco, Aaron C. **Source:** *Tribology International*, v 189, November 2023
Open Access type(s): All Open Access, Green
Database: Compendex
Data Provider: Engineering Village
Compilation and indexing terms, Copyright 2026 Elsevier Inc.