

Mark Hadfield

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8419928/publications.pdf>

Version: 2024-02-01

84
papers

2,151
citations

236925

25
h-index

289244

40
g-index

87
all docs

87
docs citations

87
times ranked

1377
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Electrochemically exfoliated graphene and molybdenum disulfide nanoplatelets as lubricant additives. <i>Journal of Molecular Liquids</i> , 2021, 342, 116959. | 4.9 | 8 |
| 2 | An approach for adaptive model performance validation within digital twinning. <i>International Journal of Computational Methods and Experimental Measurements</i> , 2021, 9, 213-225. | 0.2 | 0 |
| 3 | DESIGN OF EXPERIMENTS PLATFORM FOR ONLINE SIMULATION MODEL VALIDATION AND PARAMETER UPDATING WITHIN DIGITAL TWINNING. <i>WIT Transactions on Engineering Sciences</i> , 2021, , . | 0.0 | 0 |
| 4 | Comparison between thermophysical and tribological properties of two engine lubricant additives: electrochemically exfoliated graphene and molybdenum disulfide nanoplatelets. <i>Nanotechnology</i> , 2021, 32, 025701. | 2.6 | 12 |
| 5 | Modelling the criticality of silicon nitride surface imperfections under rolling and sliding contact. <i>Tribology International</i> , 2020, 148, 106317. | 5.9 | 2 |
| 6 | Two phosphonium cation-based ionic liquids as lubricant additive to a polyalphaolefin base oil. <i>Journal of Molecular Liquids</i> , 2019, 293, 111536. | 4.9 | 31 |
| 7 | Finite elements based approaches for the modelling of radial crack formation upon Vickers indentation in silicon nitride ceramics. <i>Journal of the European Ceramic Society</i> , 2019, 39, 4011-4022. | 5.7 | 18 |
| 8 | Tribological performance of tributylmethylammonium bis(trifluoromethylsulfonyl)amide as neat lubricant and as an additive in a polar oil. <i>Friction</i> , 2019, 7, 282-288. | 6.4 | 15 |
| 9 | Thermal analysis and tribological investigation on TPU and NBR elastomers applied to sealing applications. <i>Tribology International</i> , 2018, 127, 24-36. | 5.9 | 48 |
| 10 | Ensuring Rigor in Qualitative Data Analysis. <i>International Journal of Qualitative Methods</i> , The, 2018, 17, 160940691878636. | 2.8 | 259 |
| 11 | Tribological Behaviour of PVD Coatings Lubricated with a FAP ⁺ Anion-Based Ionic Liquid Used as an Additive. <i>Lubricants</i> , 2016, 4, 8. | 2.9 | 15 |
| 12 | Assessing Boundary Film Forming Behavior of Phosphonium Ionic Liquids as Engine Lubricant Additives. <i>Lubricants</i> , 2016, 4, 17. | 2.9 | 6 |
| 13 | Ionic liquids as a neat lubricant applied to steel-steel contacts. <i>Tribology International</i> , 2014, 72, 42-50. | 5.9 | 52 |
| 14 | FAP ⁺ Anion Ionic Liquids Used in the Lubrication of a Steel-Steel Contact. <i>Tribology Letters</i> , 2013, 52, 431-437. | 2.6 | 49 |
| 15 | Experimental and analytical thermal study of PTFE composite sliding against high carbon steel as a function of the surface roughness, sliding velocity and applied load. <i>Wear</i> , 2013, 303, 154-168. | 3.1 | 51 |
| 16 | Material Characterization and Real-Time Wear Evaluation of Pistons and Cylinder Liners of the Tiger 131 Military Tank. <i>Tribology Transactions</i> , 2013, 56, 637-644. | 2.0 | 24 |
| 17 | Lubrication of PVD coatings with ethyl-dimethyl-2-methoxyethylammonium tris(pentafluoroethyl)trifluorophosphate. <i>Tribology International</i> , 2013, 58, 71-78. | 5.9 | 37 |
| 18 | The challenges of evaluation: assessing Early Talk's impact on speech language and communication practice in children's centres. <i>International Journal of Early Years Education</i> , 2013, 21, 70-84. | 0.8 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Becoming critical again: reconnecting critical social theory with the practice of action research. Educational Action Research, 2012, 20, 571-585. | 1.5 | 9 |
| 20 | Video: modalities and methodologies. International Journal of Research and Method in Education, 2012, 35, 311-324. | 1.9 | 11 |
| 21 | How might better network theories support school leadership research?. School Leadership and Management, 2012, 32, 109-121. | 1.6 | 24 |
| 22 | Future perspectives on sustainable tribology. Renewable and Sustainable Energy Reviews, 2012, 16, 4126-4140. | 16.4 | 104 |
| 23 | Cavitation damage incubation with typical fluids applied to a scroll expander system. Tribology International, 2011, 44, 1668-1678. | 5.9 | 20 |
| 24 | A model of friction for a pin-on-disc configuration with imposed pin rotation. Mechanism and Machine Theory, 2011, 46, 1755-1772. | 4.5 | 13 |
| 25 | Use of optical profilometry in the ASTM D4172 standard. Wear, 2011, 271, 2963-2967. | 3.1 | 16 |
| 26 | Observations of acoustically generated cavitation bubbles within typical fluids applied to a scroll expander lubrication system. Experimental Thermal and Fluid Science, 2011, 35, 1544-1554. | 2.7 | 26 |
| 27 | Pseudoplastic deformation pits on polished ceramics due to cavitation erosion. Ceramics International, 2011, 37, 1919-1927. | 4.8 | 13 |
| 28 | Experimental study and analytical model of the cavitation ring region with small diameter ultrasonic horn. Ultrasonics Sonochemistry, 2011, 18, 73-79. | 8.2 | 25 |
| 29 | Low-Cost Oil Quality Sensor Based on Changes in Complex Permittivity. Sensors, 2011, 11, 10675-10690. | 3.8 | 42 |
| 30 | Leading School-Based Networks and Collaborative Learning: Working Together for Better Outcomes?. , 2011, , 915-929. | | 2 |
| 31 | Cavitation and rolling wear in silicon nitride. Ceramics International, 2010, 36, 1373-1381. | 4.8 | 10 |
| 32 | Surface strength of silicon nitride in relation to rolling contact performance measured on ball-on-rod and modified four-ball tests. Tribology International, 2010, 43, 423-432. | 5.9 | 6 |
| 33 | Cavitation erosion in silicon nitride: Experimental investigations on the mechanism of material degradation. Tribology International, 2010, 43, 2251-2257. | 5.9 | 17 |
| 34 | Mechanical Properties of Silicon Nitride Using RUS & C-Sphere Methodology. Advances in Science and Technology, 2010, 64, 71-75. | 0.2 | 2 |
| 35 | Realising the potential of school-based networks. Educational Research, 2010, 52, 309-323. | 1.8 | 34 |
| 36 | School-Based Networking for Educational Change. , 2010, , 765-780. | | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Investment in Sustainable Development: A UK Perspective on the Business and Academic Challenges. Sustainability, 2009, 1, 1144-1160. | 3.2 | 2 |
| 38 | Experimental wear modelling of lifeboat slipway launches. Tribology International, 2009, 42, 1706-1714. | 5.9 | 7 |
| 39 | Wear observations applied to lifeboat slipway launches. Wear, 2009, 267, 2062-2069. | 3.1 | 6 |
| 40 | Early stage cavitation erosion within ceramics—An experimental investigation. Ceramics International, 2009, 35, 3301-3312. | 4.8 | 25 |
| 41 | Surface strength of silicon nitride in relation to rolling contact performance. Ceramics International, 2009, 35, 3339-3346. | 4.8 | 15 |
| 42 | Strategies for developing sustainable design practice for students and SME professionals. European Journal of Engineering Education, 2008, 33, 331-342. | 2.3 | 17 |
| 43 | Meeting the challenges of active learning in Web-based case studies for sustainable development. Innovations in Education and Teaching International, 2007, 44, 331-343. | 2.5 | 19 |
| 44 | Co-leaders and middle leaders: the dynamic between leaders and followers in networks of schools. School Leadership and Management, 2007, 27, 259-283. | 1.6 | 24 |
| 45 | Manufacturing induced residual stress influence on the rolling contact fatigue life performance of lubricated silicon nitride bearing materials. Materials & Design, 2007, 28, 2688-2693. | 5.1 | 17 |
| 46 | Residual stress variations during rolling contact fatigue of refrigerant lubricated silicon nitride bearing elements. Ceramics International, 2006, 32, 751-754. | 4.8 | 19 |
| 47 | A sustainable product design model. Materials & Design, 2006, 27, 1128-1133. | 5.1 | 101 |
| 48 | Subsurface propagation of partial ring cracks under rolling contact. Wear, 2006, 261, 390-397. | 3.1 | 16 |
| 49 | Examination of the material removal mechanisms during the lapping process of advanced ceramic rolling elements. Wear, 2005, 258, 2-12. | 3.1 | 28 |
| 50 | Pressurised chamber design for conducting rolling contact experiments with liquid refrigerant lubrication. Materials & Design, 2005, 26, 680-689. | 5.1 | 17 |
| 51 | Ceramic rolling elements with ring crack defects—A residual stress approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 404, 221-226. | 5.6 | 76 |
| 52 | The influence of test lubricants on the rolling contact fatigue failure mechanisms of silicon nitride ceramic. Wear, 2004, 257, 1047-1057. | 3.1 | 13 |
| 53 | A study of tribological durability with associated environmental impacts of a domestic refrigerator. Materials & Design, 2004, 25, 331-341. | 5.1 | 10 |
| 54 | Failure modes of ceramic rolling elements with surface crack defects. Wear, 2004, 256, 208-219. | 3.1 | 28 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | A mechanism for nucleating secondary fractures near a pre-existing flaw subjected to contact loading. <i>Wear</i> , 2003, 254, 597-605. | 3.1 | 16 |
| 56 | Teachers' Perspectives on Effective School Leadership. <i>Teachers and Teaching: Theory and Practice</i> , 2003, 9, 67-77. | 1.9 | 20 |
| 57 | Residual stress field of HIPed silicon nitride rolling elements. <i>Ceramics International</i> , 2002, 28, 645-650. | 4.8 | 6 |
| 58 | A study of line defect fatigue failure of ceramic rolling elements in rolling contact. <i>Wear</i> , 2002, 253, 975-985. | 3.1 | 19 |
| 59 | Mechanisms of Fatigue Failure in Thermal Spray Coatings. <i>Journal of Thermal Spray Technology</i> , 2002, 11, 333-349. | 3.1 | 49 |
| 60 | Rolling contact fatigue performance of HIPed Si ₃ N ₄ with different surface roughness. <i>Ceramics International</i> , 2001, 27, 781-794. | 4.8 | 12 |
| 61 | Ring crack propagation in silicon nitride under rolling contact. <i>Wear</i> , 2001, 250, 282-292. | 3.1 | 30 |
| 62 | The influence of POE and PVE lubricant blends within hermetic refrigerating compressors operating with HFC-134a refrigerant. <i>Wear</i> , 2000, 241, 53-64. | 3.1 | 12 |
| 63 | The influence of ring crack location on the rolling contact fatigue failure of lubricated silicon nitride: experimental studies. <i>Wear</i> , 2000, 243, 157-166. | 3.1 | 47 |
| 64 | The influence of ring crack location on the rolling contact fatigue failure of lubricated silicon nitride: fracture mechanics analysis. <i>Wear</i> , 2000, 243, 167-174. | 3.1 | 37 |
| 65 | The influence of heterogeneous porosity on silicon nitride/steel wear in lubricated rolling contact. <i>Ceramics International</i> , 2000, 26, 315-324. | 4.8 | 11 |
| 66 | An environmental evaluation of mechanical systems using environmentally acceptable refrigerants. <i>International Journal of Life Cycle Assessment</i> , 2000, 5, 209-220. | 4.7 | 12 |
| 67 | Failure modes of plasma sprayed WC-15%Co coated rolling elements. <i>Wear</i> , 1999, 230, 39-55. | 3.1 | 38 |
| 68 | The influence of lubricant viscosity on the wear of hermetic compressor components in HFC-134a environments. <i>Wear</i> , 1999, 236, 1-8. | 3.1 | 25 |
| 69 | Wear behaviour of the piston/gudgeon pin in a hermetic compressor with replacement CFC refrigerants. <i>Wear</i> , 1998, 219, 8-15. | 3.1 | 8 |
| 70 | Rolling contact fatigue performance of plasma sprayed coatings. <i>Wear</i> , 1998, 220, 80-91. | 3.1 | 25 |
| 71 | Failure of silicon nitride rolling elements with ring crack defects. <i>Ceramics International</i> , 1998, 24, 379-386. | 4.8 | 37 |
| 72 | Residual stress measurements of hot isostatically pressed silicon nitride rolling elements. <i>Ceramics International</i> , 1998, 24, 387-392. | 4.8 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Fatigue behaviour of HVOF coated M50 steel rolling elements. <i>Surface Engineering</i> , 1998, 14, 473-480. | 2.2 | 8 |
| 74 | Experimental measurement of the residual stress field within thermally sprayed rolling elements. <i>Wear</i> , 1997, 209, 84-95. | 3.1 | 35 |
| 75 | Rolling contact fatigue performance of detonation gun coated elements. <i>Tribology International</i> , 1997, 30, 129-137. | 5.9 | 40 |
| 76 | Rolling contact fatigue behaviour of thermally sprayed rolling elements. <i>Surface and Coatings Technology</i> , 1996, 82, 176-186. | 4.8 | 26 |
| 77 | Observations of delamination fatigue on pre-cracked ceramic elements in rolling contact. <i>Ceramics International</i> , 1995, 21, 125-130. | 4.8 | 6 |
| 78 | Observations of lubricated rolling contact fatigue on silicon nitride rods. <i>Ceramics International</i> , 1995, 21, 13-19. | 4.8 | 8 |
| 79 | The effect of the test machine on the failure mode in lubricated rolling contact of silicon nitride. <i>Tribology International</i> , 1995, 28, 377-382. | 5.9 | 37 |
| 80 | Subsurface crack investigation on delaminated ceramic elements. <i>Tribology International</i> , 1994, 27, 359-367. | 5.9 | 16 |
| 81 | Delamination of ceramic balls in rolling contact. <i>Ceramics International</i> , 1993, 19, 151-158. | 4.8 | 14 |
| 82 | Residual stresses in failed ceramic rolling-contact balls. <i>Ceramics International</i> , 1993, 19, 307-313. | 4.8 | 8 |
| 83 | Failure modes of ceramic elements with ring-crack defects. <i>Tribology International</i> , 1993, 26, 157-164. | 5.9 | 43 |
| 84 | Failure modes of pre-cracked ceramic elements under rolling contact. <i>Wear</i> , 1993, 169, 69-75. | 3.1 | 30 |