# Koenraad G F Janssens

## List of Publications by Year in descending order



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|---|---|---|---|
| 34 papers | 1,649 citations | 516710 16 h-index | 477307 29 g-index |
| 35 all docs | 35 docs citations | 35 times ranked | 1409 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Universal cycle counting for non-proportional and random fatigue loading. International Journal of Fatigue, 2020, 133, 105409. | 5.7 | 9 |
| 2 | DAMASK â€" The DÃ¼sseldorf Advanced Material Simulation Kit for modeling multi-physics crystal plasticity, thermal, and damage phenomena from the single crystal up to the component scale. Computational Materials Science, 2019, 158, 420-478. | 3.0 | 440 |
| 3 | Proportionally and non-proportionally perturbed fatigue of stainless steel. International Journal of Fatigue, 2018, 110, 42-48. | 5.7 | 7 |
| 4 | Multiple slip dislocation patterning in a dislocation-based crystal plasticity finite element method. International Journal of Plasticity, 2018, 100, 104-121. | 8.8 | 50 |
| 5 | Nanoscale characterization of stresses in semiconductor devices. , 2018, , 473-476. | | 0 |
| 6 | Crystal plasticity finite element modelling of low cycle fatigue in fcc metals. Journal of the Mechanics and Physics of Solids, 2015, 84, 424-435. | 4.8 | 28 |
| 7 | An internal variable dependent constitutive cyclic plastic material description including ratcheting calibrated for AISI 316L. Computational Materials Science, 2014, 87, 160-171. | 3.0 | 11 |
| 8 | Multiaxial fatigue behavior of AISI 316L subjected to strain-controlled and ratcheting paths. International Journal of Fatigue, 2014, 68, 195-208. | 5.7 | 27 |
| 9 | Computational Analyses of the Thermal Stress Induced by Coolant Mixing in a T-Joint. , 2014, , . | | 0 |
| 10 | Cyclic mechanical behavior of 316L: Uniaxial LCF and strain-controlled ratcheting tests. Nuclear Engineering and Design, 2013, 257, 100-108. | 1.7 | 21 |
| 11 | Cyclic deformation response of AISI 316L at room temperature: Mechanical behaviour, microstructural evolution, physically-based evolutionary constitutive modelling. International Journal of Plasticity, 2013, 47, 143-164. | 8.8 | 134 |
| 12 | Microscopic analysis of the influence of ratcheting on the evolution of dislocation structures observed in AISI 316L stainless steel during low cycle fatigue. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 587, 1-11. | 5.6 | 27 |
| 13 | Case study of the applicability of cyclic hardening material descriptions in finite element simulation of cyclic thermal shocks. Fatigue and Fracture of Engineering Materials and Structures, 2011, 34, 562-572. | 3.4 | 4 |
| 14 | Thermomechanical and isothermal fatigue behavior of 347 and 316L austenitic stainless tube and pipe steels. International Journal of Fatigue, 2011, 33, 683-691. | 5.7 | 44 |
| 15 | Dislocation structure evolution and its effects on cyclic deformation response of AISI 316L stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3261-3269. | 5.6 | 174 |
| 16 | Papers from the 2009 TMS Annual Meeting Symposium on Mechanisms, theory, experiments and industrial practice in fatigue. International Journal of Fatigue, 2010, 32, 791-791. | 5.7 | 0 |
| 17 | An introductory review of cellular automata modeling of moving grain boundaries in polycrystalline materials. Mathematics and Computers in Simulation, 2010, 80, 1361-1381. | 4.4 | 93 |
| 18 | A computational fatigue analysis of cyclic thermal shock in notched specimens. Nuclear Engineering and Design, 2009, 239, 36-44. | 1.7 | 15 |

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|---|---|---|---|
| 19 | Cultural Intelligence in Global Teams. Group and Organization Management, 2006, 31, 124-153. | 4.4 | 139 |
| 20 | Computing the mobility of grain boundaries. Nature Materials, 2006, 5, 124-127. | 27.5 | 222 |
| 21 | Introducing Solute Drag in Irregular Cellular Automata Modeling of Grain Growth. Materials Science Forum, 2004, 467-470, 1045-1050. | 0.3 | 5 |
| 22 | Random grid, three-dimensional, space-time coupled cellular automata for the simulation of recrystallization and grain growth. Modelling and Simulation in Materials Science and Engineering, 2003, 11, 157-171. | 2.0 | 58 |
| 23 | Thermodynamic and Kinetic Coupling of a Random Grid Cellular Automaton for the Simulation of Grain Growth. Advanced Engineering Materials, 2002, 4, 200-202. | 3.5 | 9 |
| 24 | Statistical evaluation of the uncertainty of experimentally characterised forming limits of sheet steel. Journal of Materials Processing Technology, 2001, 112, 174-184. | 6.3 | 43 |
| 25 | Nanoscale characterization of stresses in semiconductor devices by quantitative electron diffraction. Applied Physics Letters, 2000, 77, 412-414. | 3.3 | 15 |
| 26 | Assessment of the quantitative characterization of localized strain using electron diffraction contrast imaging. Ultramicroscopy, 1997, 69, 151-167. | 1.9 | 9 |
| 27 | Transmission Electron Diffraction Techniques for NM Scale Strain Measurement in Semiconductors. Materials Research Society Symposia Proceedings, 1995, 406, 479. | 0.1 | 3 |
| 28 | Transmission Electron Diffraction Techniques for Nm Scale Strain Measurement in Semiconductors. Materials Research Society Symposia Proceedings, 1995, 405, 435. | 0.1 | 5 |
| 29 | Localised strain characterisation in semiconductor structures using electron diffraction contrast imaging. Materials Science and Technology, 1995, 11, 66-71. | 1.6 | 3 |
| 30 | Characterization of strain in an advanced semiconductor laser structure with nanometer range resolution using a new algorithm for electron diffraction contrast imaging interpretation. Applied Physics Letters, 1995, 67, 1530-1532. | 3.3 | 12 |
| 31 | Strain analysis with nanometer resolution using a conventional transmission electron microsopy technique: electron diffraction contrast imaging revisited. Proceedings Annual Meeting Electron Microscopy Society of America, 1995, 53, 168-169. | 0.0 | 0 |
| 32 | A new software package for interpreting electron diffraction contrast images of arbitrary displacement fields: SIMCON. Microscopy Research and Technique, 1993, 25, 171-172. | 2.2 | 0 |
| 33 | On the assessment of local stress distributions in integrated circuits. Applied Surface Science, 1993, 63, 119-125. | 6.1 | 23 |
| 34 | SIMCON: a versatile software package for the simulation of electron diffraction contrast images of arbitrary displacement fields. Ultramicroscopy, 1992, 45, 323-335. | 1.9 | 19 |