# Norbert Huber

List of Publications by Year
in descending order



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|---|---|---|---|
| 135 papers | 4,348 citations | 94269 37 h-index | 128067 60 g-index |
| 147 all docs | 147 docs citations | 147 times ranked | 3394 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | On the analysis of plasticity induced crack closure in welded specimens: A mechanism controlled by the stress intensity factor resulting from residual stresses. International Journal of Fatigue, 2022, 162, 106940. | 2.8 | 7 |
| 2 | A Review of Non-Destructive Testing (NDT) Techniques for Defect Detection: Application to Fusion Welding and Future Wire Arc Additive Manufacturing Processes. Materials, 2022, 15, 3697. | 1.3 | 32 |
| 3 | A modeling approach to predict the mechanical response of materials to irradiation damage from external sources: Nanoindentation of Pb-implanted ZrSiO4. Materialia, 2022, 24, 101506. | 1.3 | 0 |
| 4 | A Strategy for Dimensionality Reduction and Data Analysis Applied to Microstructureâ€"Property Relationships of Nanoporous Metals. Materials, 2021, 14, 1822. | 1.3 | 9 |
| 5 | Hybrid Modelling by Machine Learning Corrections of Analytical Model Predictions towards High-Fidelity Simulation Solutions. Materials, 2021, 14, 1883. | 1.3 | 10 |
| 6 | Modelling the effect of intrinsic radiation damage on mechanical properties: The crystalline-to-amorphous transition in zircon. Scripta Materialia, 2021, 197, 113789. | 2.6 | 7 |
| 7 | Image segmentation and analysis for densification mapping of nanoporous gold after nanoindentation. MRS Advances, 2021, 6, 519-523. | 0.5 | 3 |
| 8 | In situ observation of competitive growth of Î± grains during Î² â†'Âα transformation in laser beam manufactured TiAl alloys. Materials Characterization, 2021, 179, 111371. | 1.9 | 9 |
| 9 | On the prediction of fatigue crack growth based on weight functions in residual stress fields induced by laser shock peening and laser heating. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 3463. | 1.7 | 1 |
| 10 | Percolation transitions in pyrochlore: Radiation-damage and thermally induced structural reorganization. Applied Physics Letters, 2021, 119, . | 1.5 | 4 |
| 11 | Effect of laser heating on mechanical properties, residual stresses and retardation of fatigue crack growth in AA2024. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 887-900. | 1.7 | 2 |
| 12 | Giant electrochemical actuation in a nanoporous silicon-polypyrrole hybrid material. Science Advances, 2020, 6, . | 4.7 | 26 |
| 13 | Prediction of elastic-plastic deformation of nanoporous metals by FEM beam modeling: A bottom-up approach from ligaments to real microstructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 791, 139700. | 2.6 | 15 |
| 14 | A Review of Experimentally Informed Micromechanical Modeling of Nanoporous Metals: From Structural Descriptors to Predictive Structureâ€"Property Relationships. Materials, 2020, 13, 3307. | 1.3 | 23 |
| 15 | Comment to â€œSkeletonization-based beam finite element models for stochastic bicontinuous materials: Application to simulations of nanoporous goldâ€• by C. Soyarslan et al. [J. Mater. Res. 33(20), 3371 (2018)]. Journal of Materials Research, 2020, 35, 2831-2834. | 1.2 | 2 |
| 16 | Editorial: Machine Learning and Data Mining in Materials Science. Frontiers in Materials, 2020, 7, . | 1.2 | 16 |
| 17 | Electrochemical Actuation in Porous Silicon. ECS Meeting Abstracts, 2020, MA2020-02, 1216-1216. | 0.0 | 0 |
| 18 | Numerical Investigation of Polymer Coated Nanoporous Gold. Materials, 2019, 12, 2178. | 1.3 | 12 |

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| 19 | Application of design of experiments for laser shock peening process optimization. International Journal of Advanced Manufacturing Technology, 2019, 102, 1567-1581. | 1.5 | 22 |
| 20 | A Review of the Application of Machine Learning and Data Mining Approaches in Continuum Materials Mechanics. Frontiers in Materials, 2019, 6, . | 1.2 | 223 |
| 21 | Computation of Thickness and Mechanical Properties of Interconnected Structures: Accuracy, Deviations, and Approaches for Correction. Frontiers in Materials, 2019, 6, . | 1.2 | 13 |
| 22 | Understanding precipitate evolution during friction stir welding of Al-Zn-Mg-Cu alloy through in-situ measurement coupled with simulation. Acta Materialia, 2018, 148, 163-172. | 3.8 | 64 |
| 23 | Improving the fatigue performance of airframe structures by combining geometrical modifications and laser heating. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1183-1195. | 1.7 | 3 |
| 24 | Connections Between Topology and Macroscopic Mechanical Properties of Three-Dimensional Open-Pore Materials. Frontiers in Materials, 2018, 5, . | 1.2 | 38 |
| 25 | Fatigue Life Extension of AA2024 Specimens and Integral Structures by Laser Shock Peening. MATEC Web of Conferences, 2018, 165, 18001. | 0.1 | 6 |
| 26 | Probabilistic fatigue-life assessment model for laser-welded Ti-6Al-4V butt joints in the high-cycle fatigue regime. International Journal of Fatigue, 2018, 116, 22-35. | 2.8 | 40 |
| 27 | Skeletonization, Geometrical Analysis, and Finite Element Modeling of Nanoporous Gold Based on 3D Tomography Data. Metals, 2018, 8, 282. | 1.0 | 30 |
| 28 | Deformation mechanisms in nanoporous metals: Effect of ligament shape and disorder. Computational Materials Science, 2017, 127, 194-203. | 1.4 | 44 |
| 29 | Effects of laser shock peening on the microstructure and fatigue crack propagation behaviour of thin AA2024 specimens. International Journal of Fatigue, 2017, 98, 223-233. | 2.8 | 69 |
| 30 | Artificial neural network for correction of effects of plasticity in equibiaxial residual stress profiles measured by hole drilling. Journal of Strain Analysis for Engineering Design, 2017, 52, 137-151. | 1.0 | 33 |
| 31 | Effect of nodal mass on macroscopic mechanical properties of nanoporous metals. International Journal of Mechanical Sciences, 2017, 134, 234-243. | 3.6 | 18 |
| 32 | Mechanical properties of laser beam welded similar and dissimilar aluminum alloys. Journal of Manufacturing Processes, 2017, 29, 272-280. | 2.8 | 33 |
| 33 | Plastic Poissonâ€™s Ratio of Nanoporous Metals: A Macroscopic Signature of Tensionâ€"Compression Asymmetry at the Nanoscale. Nano Letters, 2017, 17, 6258-6266. | 4.5 | 55 |
| 34 | Material Influence on Crenellation Effectiveness in Damage Tolerant Design. Procedia Structural Integrity, 2017, 5, 263-270. | 0.3 | 0 |
| 35 | Laser Weldability of High-Strength Al-Zn Alloys and Its Improvement by the Use of an Appropriate Filler Material. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2830-2841. | 1.1 | 9 |
| 36 | Phase Transformations During Solidification of a Laser-Beam-Welded TiAl Alloyâ€"An In Situ Synchrotron Study. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5761-5770. | 1.1 | 6 |

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| 37 | Effect of elasto-plastic material behaviour on determination of residual stress profiles using the hole drilling method. Journal of Strain Analysis for Engineering Design, 2016, 51, 572-581. | 1.0 | 26 |
| 38 | Phase Transformation and Residual Stress in a Laser Beam Spot-Welded TiAl-Based Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5750-5760. | 1.1 | 8 |
| 39 | Fibre laser welding of high-alloyed Alâ€"Znâ€"Mgâ€"Cu alloys. Journal of Materials Processing Technology, 2016, 237, 155-162. | 3.1 | 43 |
| 40 | Scaling laws of nanoporous gold under uniaxial compression: Effects of structural disorder on the solid fraction, elastic Poisson's ratio, Young's modulus and yield strength. Journal of the Mechanics and Physics of Solids, 2016, 92, 55-71. | 2.3 | 60 |
| 41 | Optimization of crenellation patterns for fatigue crack retardation via genetic algorithm and the reduction in computational cost. Engineering Failure Analysis, 2016, 63, 21-30. | 1.8 | 5 |
| 42 | Review of Residual Stress Modification Techniques for Extending the Fatigue Life of Metallic Aircraft Components. Applied Mechanics Reviews, 2015, 67, . | 4.5 | 46 |
| 43 | Crenellation Patterns for Fatigue Crack Retardation in Fuselage Panels Optimized via Genetic Algorithm. Procedia Engineering, 2015, 114, 248-254. | 1.2 | 2 |
| 44 | Influence of the geometry on the fatigue performance of crenellated fuselage panels. CiÃªncia & Tecnologia Dos Materiais, 2015, 27, 100-107. | 0.5 | 3 |
| 45 | Damage modeling of small-scale experiments on dental enamel with hierarchical microstructure. Acta Biomaterialia, 2015, 15, 244-253. | 4.1 | 27 |
| 46 | Experimental and numerical crushing analyses of thin-walled magnesium profiles. International Journal of Crashworthiness, 2015, 20, 177-190. | 1.1 | 27 |
| 47 | In situ study of phase transformations during laser-beam welding of a TiAl alloy for grain refinement and mechanical property optimization. Intermetallics, 2015, 62, 27-35. | 1.8 | 26 |
| 48 | Mechanical characterization of oligo(ethylene glycol)-based hydrogels by dynamic nanoindentation experiments. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 46, 1-10. | 1.5 | 12 |
| 49 | Single-sided laser beam welding of a dissimilar AA2024â€"AA7050 T-joint. Materials & Design, 2015, 76, 110-116. | 5.1 | 43 |
| 50 | Selfâ€Assembled Ultra High Strength, Ultra Stiff Mechanical Metamaterials Based on Inverse Opals. Advanced Engineering Materials, 2015, 17, 1420-1424. | 1.6 | 48 |
| 51 | Design of Local Heat Treatment for Crack Retardation in Aluminium Alloys. Procedia Engineering, 2015, 114, 271-276. | 1.2 | 7 |
| 52 | A parametric study of laser spot size and coverage on the laser shock peening induced residual stress in thin aluminium samples. Journal of Engineering, 2015, 2015, 97-105. | 0.6 | 17 |
| 53 | Numerical prediction of the stressâ€"strain response of a lamellar Î³TiAl polycrystal using a two-scale modelling approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 273-285. | 2.6 | 12 |
| 54 | Characterization and modeling of the influence of artificial aging on the microstructural evolution of age-hardenable AlSi10Mg(Cu) aluminum alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 610, 46-53. | 2.6 | 26 |

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| 55 | Effect of Post-weld Heat Treatment on Microstructure and Mechanical Properties of Laser Beam Welded TiAl-based Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 16-28. | 1.1 | 8 |
| 56 | A combined experimental-numerical approach for elasto-plastic fracture of individual grain boundaries. Journal of the Mechanics and Physics of Solids, 2014, 64, 455-467. | 2.3 | 36 |
| 57 | Increased room temperature formability of Mg AZ31 by high speed Friction Stir Processing. Materials & Design, 2014, 54, 980-988. | 5.1 | 20 |
| 58 | Scaling laws of nanoporous metals under uniaxial compression. Acta Materialia, 2014, 67, 252-265. | 3.8 | 140 |
| 59 | Effects of tool rotational and welding speed on microstructure and mechanical properties of bobbin-tool friction-stir welded Mg AZ31. Materials & Design, 2014, 64, 714-720. | 5.1 | 111 |
| 60 | The Development of the Rotational Friction Welding Process for the Welding of Î³-TiAl-Casting Alloy Ti-47Al-3.5(Mn+Cr+Nb)-0.8(B+Si) to Ti6Al4V. Praktische Metallographie/Practical Metallography, 2014, 51, 321-352. | 0.1 | 0 |
| 61 | On the interaction between different size effects in fibre reinforced PMMA: Towards composites with optimised fracture behaviour. Computational Materials Science, 2013, 80, 35-42. | 1.4 | 9 |
| 62 | Size effects in short fibre reinforced composites. Engineering Fracture Mechanics, 2013, 100, 17-27. | 2.0 | 22 |
| 63 | Comparative study of mechanical properties using standard and micro-specimens of base materials Inconel 625, Inconel 718 and Ti-6Al-4V. Journal of Materials Research and Technology, 2013, 2, 43-47. | 2.6 | 33 |
| 64 | Magnesium degradation as determined by artificial neural networks. Acta Biomaterialia, 2013, 9, 8722-8729. | 4.1 | 57 |
| 65 | Towards bio-inspired engineering materials: Modeling and simulation of the mechanical behavior of hierarchical bovine dental structure. Computational Materials Science, 2013, 79, 390-401. | 1.4 | 30 |
| 66 | Asymmetric mechanical properties and tensile behaviour prediction of aluminium alloy 5083 friction stir welding joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 565, 44-50. | 2.6 | 90 |
| 67 | The influence of refill FSSW parameters on the microstructure and shear strength of 5042 aluminium welds. Journal of Materials Processing Technology, 2013, 213, 997-1005. | 3.1 | 125 |
| 68 | A study on local thermal and strain phenomena of high-speed friction stir-processed Mg AZ31. Welding in the World, Le Soudage Dans Le Monde, 2013, 57, 515-521. | 1.3 | 8 |
| 69 | Investigations of microstructural, thermal and local strain phenomena of high speed friction stir processed Mg AZ31. , 2013, , 59-65. | | 0 |
| 70 | Retardation of fatigue crack growth in aircraft aluminium alloys via laser heating. International Journal of Structural Integrity, 2013, 4, 429-445. | 1.8 | 7 |
| 71 | Hierarchical flexural strength of enamel: transition from brittle to damage-tolerant behaviour. Journal of the Royal Society Interface, 2012, 9, 1265-1274. | 1.5 | 55 |
| 72 | Shear layer modelling for bobbin tool friction stir welding. Science and Technology of Welding and Joining, 2012, 17, 454-459. | 1.5 | 23 |

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| 73 | Use of spherical indentation technique for measurement of property variations of Î³TiAl. Journal of Materials Research, 2012, 27, 378-388. | 1.2 | 7 |
| 74 | Investigation of In Situ and Conventional Postâ€Weld Heat Treatments on Dualâ€Laserâ€Beamâ€Welded Î³â€TiAlâ€Based Alloy. Advanced Engineering Materials, 2012, 14, 923-927. | 1.6 | 14 |
| 75 | Retardation of fatigue crack growth in aircraft aluminium alloys via laser heating â€" Numerical prediction of fatigue crack growth. Computational Materials Science, 2012, 65, 461-469. | 1.4 | 16 |
| 76 | Temperature and Texture Development during High Speed Friction Stir Processing of Magnesium AZ31. Advanced Engineering Materials, 2012, 14, 762-771. | 1.6 | 8 |
| 77 | Crack retardation mechanism due to overload in base material and laser welds of Al alloys. International Journal of Fatigue, 2012, 42, 95-103. | 2.8 | 31 |
| 78 | The influence of crack face contact on the prediction of fatigue crack propagation in residual stress fields. Engineering Fracture Mechanics, 2012, 84, 15-24. | 2.0 | 28 |
| 79 | A method to determine site-specific, anisotropic fracture toughness in biological materials. Scripta Materialia, 2012, 66, 515-518. | 2.6 | 19 |
| 80 | Retardation of fatigue crack growth in aircraft aluminium alloys via laser heating â€" Experimental proof of concept. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 546, 8-14. | 2.6 | 27 |
| 81 | In Situ Experiments with Synchrotron Highâ€Energy Xâ€Rays and Neutrons. Advanced Engineering Materials, 2011, 13, 658-663. | 1.6 | 80 |
| 82 | Research with Neutron and Synchrotron Radiation on Aerospace and Automotive Materials and Components. Advanced Engineering Materials, 2011, 13, 637-657. | 1.6 | 5 |
| 83 | Compressive failure of UD-CFRP containing void defects: In situ SEM microanalysis. Composites Science and Technology, 2011, 71, 1242-1249. | 3.8 | 58 |
| 84 | Thermal models for bobbin tool friction stir welding. Journal of Materials Processing Technology, 2011, 211, 197-204. | 3.1 | 63 |
| 85 | On the feasibility of friction spot joining in magnesium/fiber-reinforced polymer composite hybrid structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3841-3848. | 2.6 | 209 |
| 86 | On characterisation of local stressâ€"strain properties in friction stir welded aluminium AA 5083 sheets using micro-tensile specimen testing and instrumented indentation technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5018-5025. | 2.6 | 31 |
| 87 | Simulation of friction and wear in DLC/steel contacts for different loading histories and geometries: Ball-on-plate configuration and pistonâ€"cylinder-contacts. Tribology International, 2010, 43, 1410-1416. | 3.0 | 6 |
| 88 | Multi time scale simulations for wear prediction in micro-gears. Wear, 2010, 268, 316-324. | 1.5 | 37 |
| 89 | Modelling of unlubricated oscillating sliding wear of DLC-coatings considering surface topography, oxidation and graphitisation. Wear, 2010, 268, 1184-1194. | 1.5 | 19 |
| 90 | Transient simulation of wear in a lobe pump using the wear processor. WIT Transactions on Engineering Sciences, 2010, , . | 0.0 | 0 |

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| 91 | Fatigue behavior of thin Au and Al films on polycarbonate and polymethylmethacrylate for micro-optical components. Thin Solid Films, 2009, 517, 2702-2707. | 0.8 | 27 |
| 92 | Influence of specimen preparation, microstructure anisotropy, and residual stresses on stressâ€“strain curves of rolled Al2024 T351 as derived from spherical indentation tests. Journal of Materials Research, 2009, 24, 907-917. | 1.2 | 18 |
| 93 | An indentation system for determination of viscoplastic stressâ€“strain behavior of small metal volumes before and after irradiation. Journal of Nuclear Materials, 2008, 377, 352-358. | 1.3 | 16 |
| 94 | Tribological characterization and numerical wear simulation of microcomponents under sliding and rolling conditions. Microsystem Technologies, 2008, 14, 1839-1846. | 1.2 | 11 |
| 95 | On the effect of a general residual stress state on indentation and hardness testing. Acta Materialia, 2008, 56, 6205-6213. | 3.8 | 134 |
| 96 | A predictive modeling scheme for wear in tribometers. Tribology International, 2008, 41, 1020-1031. | 3.0 | 84 |
| 97 | Spherical indentation into elastoplastic materials: Indentation-response based definitions of the representative strain. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 454-455, 1-13. | 2.6 | 68 |
| 98 | Neural networks for tip correction of spherical indentation curves from bulk metals and thin metal films. Journal of the Mechanics and Physics of Solids, 2007, 55, 391-418. | 2.3 | 30 |
| 99 | Identification of viscoplastic material parameters from spherical indentation data: Part II. Experimental validation of the method. Journal of Materials Research, 2006, 21, 677-684. | 1.2 | 41 |
| 100 | Identification of viscoplastic material parameters from spherical indentation data: Part I. Neural networks. Journal of Materials Research, 2006, 21, 664-676. | 1.2 | 71 |
| 101 | Further investigation on the definition of the representative strain in conical indentation. Journal of Materials Research, 2006, 21, 1810-1821. | 1.2 | 44 |
| 102 | Reliability studies of microoptical components in NEMO. , 2006, , . | | 0 |
| 103 | Modeling and Simulation of Wear in a Pin on Disc Tribometer. , 2006, , 567. | | 12 |
| 104 | Modeling and simulation of wear in a pin on disc tribometer. Tribology Letters, 2006, 24, 51-60. | 1.2 | 71 |
| 105 | Biaxial Fatigue Testing of Thin Films. AIP Conference Proceedings, 2006, , . | 0.3 | 0 |
| 106 | On the analysis of the stressâ€“strain behaviour of thin metal films on substrates using nanoindentation. Philosophical Magazine, 2006, 86, 5505-5519. | 0.7 | 3 |
| 107 | Development and validation of an experimental setup for the biaxial fatigue testing of metal thin films. Review of Scientific Instruments, 2006, 77, 103902. | 0.6 | 14 |
| 108 | Failure assessment of alumina in unlubricated unidirectional sliding contact. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 157-162. | 0.5 | 3 |

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| 109 | A Finite Element Based Technique for Simulating Sliding Wear. , 2005, , 731. | | 4 |
| 110 | Reliability confidence intervals for ceramic components as obtained from bootstrap methods and neural networks. Computational Materials Science, 2005, 34, 1-13. | 1.4 | 18 |
| 111 | Finite element based simulation of dry sliding wear. Modelling and Simulation in Materials Science and Engineering, 2005, 13, 57-75. | 0.8 | 113 |
| 112 | Reliability Assessment of a Gas Microsensor. IEEE Transactions on Device and Materials Reliability, 2004, 4, 549-555. | 1.5 | 1 |
| 113 | An Investigation of Non-linear Stress-strain Behavior of Thin Metal Films. Materials Research Society Symposia Proceedings, 2004, 841, R12.2.1. | 0.1 | 1 |
| 114 | A new loading history for identification of viscoplastic properties by spherical indentation. Journal of Materials Research, 2004, 19, 101-113. | 1.2 | 44 |
| 115 | A new loading history for identification of viscoplastic properties by spherical indentation. , 2004, 19, 101. | | 1 |
| 116 | Dynamic finite element analysis of a micro lobe pump. Microsystem Technologies, 2003, 9, 465-469. | 1.2 | 13 |
| 117 | Simulation of the Hertzian contact damage in ceramics. Modelling and Simulation in Materials Science and Engineering, 2003, 11, 477-486. | 0.8 | 5 |
| 118 | Identification of elastic-plastic material parameters from pyramidal indentation of thin films. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 1593-1620. | 1.0 | 90 |
| 119 | Experiment and theory of thermal transport properties of heterogeneous composites. High Temperatures - High Pressures, 2002, 34, 431-445. | 0.3 | 0 |
| 120 | Determination of Poissonâ€™s Ratio by Spherical Indentation Using Neural Networksâ€"Part I: Theory. Journal of Applied Mechanics, Transactions ASME, 2001, 68, 218-223. | 1.1 | 30 |
| 121 | Determination of Poissonâ€™s Ratio by Spherical Indentation Using Neural Networksâ€"Part II: Identification Method. Journal of Applied Mechanics, Transactions ASME, 2001, 68, 224-229. | 1.1 | 18 |
| 122 | A neural network tool for identifying the material parameters of a finite deformation viscoplasticity model with static recovery. Computer Methods in Applied Mechanics and Engineering, 2001, 191, 353-384. | 3.4 | 68 |
| 123 | Determination of constitutive properties of thin metallic films on substrates by spherical indentation using neural networks. International Journal of Solids and Structures, 2000, 37, 6499-6516. | 1.3 | 37 |
| 124 | Finite deformation viscoelasticity laws. Mechanics of Materials, 2000, 32, 1-18. | 1.7 | 141 |
| 125 | Discussion of Finite Deformation Viscoelasticity Laws with Reference to Torsion Loading. Continuum Mechanics and Thermodynamics, 2000, 12, 303-323. | 1.4 | 3 |
| 126 | THE EFFECT OF KINEMATIC HARDENING ON SPHERICAL INDENTATION. Journal of the Mechanical Behavior of Materials, 2000, 11, 55-58. | 0.7 | 0 |

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| 127 | Determination of constitutive properties fromspherical indentation data using neural networks. Part i:the case of pure kinematic hardening in plasticity laws. Journal of the Mechanics and Physics of Solids, 1999, 47, 1569-1588. | 2.3 | 126 |
| 128 | Determination of constitutive properties fromspherical indentation data using neural networks. Part ii:plasticity with nonlinear isotropic and kinematichardening. Journal of the Mechanics and Physics of Solids, 1999, 47, 1589-1607. | 2.3 | 112 |
| 129 | Experimental and theoretical investigation of the effect of kinematic hardening on spherical indentation. Mechanics of Materials, 1998, 27, 241-248. | 1.7 | 28 |
| 130 | An experimental device for depth-sensing indentation tests in millimeter-scale. Journal of Materials Research, 1998, 13, 1650-1655. | 1.2 | 5 |
| 131 | A Finite Element Analysis of the Effect of Hardening Rules on the Indentation Test. Journal of Engineering Materials and Technology, Transactions of the ASME, 1998, 120, 143-148. | 0.8 | 26 |
| 132 | Determination of Young's modulus by spherical indentation. Journal of Materials Research, 1997, 12, 2459-2469. | 1.2 | 32 |
| 133 | Finite element simulation of microstructure demolding as part of the LIGA process. Microsystem Technologies, 1995, 2, 17-21. | 1.2 | 5 |
| 134 | Crashworthiness of Magnesium Sheet Structures. Materials Science Forum, 0, 765, 590-594. | 0.3 | 10 |
| 135 | <i>In Situ</i> Experiment for Laser Beam Welding of Ti Alloys Using High-Energy X-Rays. Materials Science Forum, 0, 905, 114-119. | 0.3 | 0 |