

Nicola Bonora

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8843728/nicola-bonora-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| | | | |
|--------------------|-------------------------|----------------|-----------------|
| 85 papers | 1,682 citations | 20 h-index | 39 g-index |
| 112 ext. papers | 1,915 ext. citations | 3.1 avg, IF | 4.84 L-index |

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 85 | A nonlinear CDM model for ductile failure. <i>Engineering Fracture Mechanics</i> , 1997 , 58, 11-28 | 4.2 | 271 |
| 84 | Ductile damage evolution under triaxial state of stress: theory and experiments. <i>International Journal of Plasticity</i> , 2005 , 21, 981-1007 | 7.6 | 211 |
| 83 | Modeling ductile damage under fully reversed cycling. <i>Computational Materials Science</i> , 2003 , 26, 129-141 | 4.2 | 88 |
| 82 | Micromechanical modeling of ductile cast iron incorporating damage. Part I: Ferritic ductile cast iron. <i>International Journal of Solids and Structures</i> , 2005 , 42, 1401-1424 | 3.1 | 80 |
| 81 | CDM modeling of ductile failure in ferritic steels: Assessment of the geometry transferability of model parameters. <i>International Journal of Plasticity</i> , 2006 , 22, 2015-2047 | 7.6 | 79 |
| 80 | Simulation of failure under cyclic plastic loading by damage models. <i>International Journal of Plasticity</i> , 2006 , 22, 2146-2170 | 7.6 | 63 |
| 79 | The pathogenesis of retinal damage in blunt eye trauma: finite element modeling 2011 , 52, 3994-4002 | | 51 |
| 78 | Micromechanical modelling of cyclic plasticity incorporating damage. <i>International Journal of Solids and Structures</i> , 2005 , 42, 337-351 | 3.1 | 50 |
| 77 | Low cycle fatigue life estimation for ductile metals using a nonlinear continuum damage mechanics model. <i>International Journal of Solids and Structures</i> , 1998 , 35, 1881-1894 | 3.1 | 45 |
| 76 | Primary blast injury to the eye and orbit: finite element modeling 2012 , 53, 8057-66 | | 39 |
| 75 | Identification and measurement of ductile damage parameters. <i>Journal of Strain Analysis for Engineering Design</i> , 1999 , 34, 463-478 | 1.3 | 37 |
| 74 | Identification of the parameters of a non-linear continuum damage mechanics model for ductile failure in metals. <i>Journal of Strain Analysis for Engineering Design</i> , 2004 , 39, 639-651 | 1.3 | 33 |
| 73 | Constitutive modeling for ductile metals behavior incorporating strain rate, temperature and damage mechanics. <i>International Journal of Impact Engineering</i> , 2001 , 26, 53-64 | 4 | 29 |
| 72 | Practical Applicability and Limitations of the Elastic Modulus Degradation Technique for Damage Measurements in Ductile Metals. <i>Strain</i> , 2011 , 47, 241-254 | 1.7 | 28 |
| 71 | On the Effect of Triaxial State of Stress on Ductility Using Nonlinear CDM Model. <i>International Journal of Fracture</i> , 1997 , 88, 359-371 | 2.3 | 28 |
| 70 | On the dependence of the Weibull exponent on geometry and loading conditions and its implications on the fracture toughness probability curve using a local approach criterion. <i>International Journal of Fracture</i> , 2000 , 104, 71-87 | 2.3 | 28 |
| 69 | Micromechanical modeling of composites with mechanical interface [Part 1: Unit cell model development and manufacturing process effects. <i>Composites Science and Technology</i> , 2006 , 66, 314-322 | 8.6 | 26 |

| | | | |
|----|--|-----|----|
| 68 | Modelling human eye under blast loading. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 107-15 | 2.1 | 21 |
| 67 | Micromechanical modeling of composites with mechanical interface [Part II: Damage mechanics assessment. <i>Composites Science and Technology</i> , 2006 , 66, 323-332 | 8.6 | 20 |
| 66 | Microdamage effects on the overall response of long fibre/metal-matrix composites. <i>Composites</i> , 1994 , 25, 575-582 | | 20 |
| 65 | On closed form solution for the elastic stress field around holes in orthotropic composite plates under in-plane stress conditions. <i>Composite Structures</i> , 1993 , 25, 139-156 | 5.3 | 19 |
| 64 | Deformation and texture evolution of OFHC copper during dynamic tensile extrusion. <i>Acta Materialia</i> , 2015 , 89, 163-180 | 8.4 | 18 |
| 63 | Numerical implementation of a new coupled cyclic plasticity and continuum damage model. <i>Computational Materials Science</i> , 2014 , 81, 538-547 | 3.2 | 16 |
| 62 | A primary creep model for Class M materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5496-5501 | 5.3 | 15 |
| 61 | Prediction of fracture toughness in ductile-to-brittle transition region using combined CDM and Beremin models. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 657, 161-172 | 5.3 | 14 |
| 60 | A Contribution to New Material Standards for Ductile Irons and Austempered Ductile Irons. <i>International Journal of Metalcasting</i> , 2017 , 11, 136-147 | 1.4 | 14 |
| 59 | Mechanism Based Creep Model Incorporating Damage. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2010 , 132, | 1.8 | 14 |
| 58 | A computational procedure to calculate stress-strain field around simple shape holes in composite laminates. <i>Computers and Structures</i> , 1994 , 53, 1167-1179 | 4.5 | 14 |
| 57 | Effect of microstructure on dynamic shear localisation in Alloy 718. <i>Mechanics of Materials</i> , 2017 , 109, 88-100 | 3.3 | 13 |
| 56 | Full scale experimental tests and numerical model validation of reinforced concrete slab subjected to direct contact explosion. <i>International Journal of Impact Engineering</i> , 2019 , 132, 103309 | 4 | 13 |
| 55 | A new overall nonlinear damage model for fiber metal laminates based on continuum damage mechanics. <i>Engineering Fracture Mechanics</i> , 2019 , 206, 21-33 | 4.2 | 13 |
| 54 | Numerical Simulation of Dynamic Tensile Extrusion Test of OFHC Copper. <i>Journal of Dynamic Behavior of Materials</i> , 2015 , 1, 136-152 | 1.8 | 12 |
| 53 | Flow Stress of bcc Metals over a Wide Range of Temperature and Strain Rates. <i>Metals</i> , 2020 , 10, 120 | 2.3 | 12 |
| 52 | Effects of off-centered cracks and restraint of induced bending caused by pressure on the crack-opening-area analysis of pipes. <i>Nuclear Engineering and Design</i> , 1996 , 167, 55-67 | 1.8 | 12 |
| 51 | The effect of subcritical ductile crack growth on cleavage fracture probability in the transition regime using continuum damage mechanics simulation. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 82, 125-135 | 3.7 | 11 |

| | | | |
|----|--|-----|----|
| 50 | Investigation on the Weibull parameters identification for local approach application in the ductile to brittle transition regime. <i>Engineering Fracture Mechanics</i> , 2007 , 74, 549-562 | 4.2 | 11 |
| 49 | Analysis of reinforced concrete slabs under blast loading. <i>Procedia Structural Integrity</i> , 2018 , 9, 272-278 | 1 | 11 |
| 48 | Time-independent formulation for creep damage modeling in metals based on void and crack evolution. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 510-511, 207-213 | 5.3 | 10 |
| 47 | Experimental modeling of strain-dependent cyclic plasticity for prediction of hysteresis curve. <i>Journal of Strain Analysis for Engineering Design</i> , 2015 , 50, 314-324 | 1.3 | 8 |
| 46 | New time-independent formulation for creep damage in polycrystalline metals and its specialisation to high alloy steel for high-temperature applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 510-511, 214-218 | 5.3 | 8 |
| 45 | Primary Creep Modeling Based on the Dependence of the Activation Energy on the Internal Stress. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2012 , 134, | 1.2 | 8 |
| 44 | Computational analysis of mixed-mode delamination crack growth in a woven laminated ceramic-matrix composite. <i>Composites Science and Technology</i> , 1999 , 59, 2287-2292 | 8.6 | 8 |
| 43 | Dynamic Recrystallization During High-Strain-Rate Tension of Copper. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 2555-2559 | 2.3 | 8 |
| 42 | A new constitutive bulk material model to predict the uniaxial tensile nonlinear behavior of fiber metal laminates. <i>Journal of Strain Analysis for Engineering Design</i> , 2018 , 53, 26-35 | 1.3 | 8 |
| 41 | Micromechanical modelling of constitutive behavior of austempered ductile iron (ADI) at high strain rate. <i>Theoretical and Applied Fracture Mechanics</i> , 2017 , 92, 351-359 | 3.7 | 7 |
| 40 | Firecracker eye exposure: experimental study and simulation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 1401-1411 | 3.8 | 7 |
| 39 | Experimental assessment of ductile damage in P91 steel at high temperature. <i>International Journal of Damage Mechanics</i> , 2014 , 23, 567-587 | 3 | 7 |
| 38 | Experimental Study of the Effect of Triaxiality Ratio on the Formability Limit Diagram and Ductile Damage Evolution in Steel and High Purity Copper. <i>International Journal of Material Forming</i> , 2010 , 3, 171-174 | 2 | 7 |
| 37 | COD of off-centred cracks in pipes under bending load: a geometrical solution. <i>International Journal of Fracture</i> , 1996 , 75, 1-18 | 2.3 | 7 |
| 36 | Continuum damage mechanics modelling incorporating stress triaxiality effect on ductile damage initiation. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 1755-1768 | 3 | 6 |
| 35 | High strain rate fracture behaviour of fused silica. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 182036 | 3 | 6 |
| 34 | Ductile fracture assessment of X65 steel using damage mechanics. <i>Procedia Structural Integrity</i> , 2017 , 3, 508-516 | 1 | 6 |
| 33 | Modification of the Bonora Damage Model for shear failure. <i>Frattura Ed Integrita Strutturale</i> , 2018 , 12, 140-150 | 0.9 | 6 |

| | | | |
|----|---|-----|---|
| 32 | On the postbuckling of flawed shear panels considering crack growth effect. <i>Thin-Walled Structures</i> , 2015 , 97, 186-198 | 4.7 | 5 |
| 31 | Ductile damage in Taylor-anvil and rod-on-rod impact experiment. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 112035 | 0.3 | 5 |
| 30 | Modeling ductile metals under large strain, pressure and high strain rate incorporating damage and microstructure evolution 2012 , | | 5 |
| 29 | Ductile damage evolution in high purity copper taylor impact test 2012 , | | 5 |
| 28 | Determination of Johnson-holmquist constitutive model parameters for fused silica. <i>EPJ Web of Conferences</i> , 2012 , 26, 04011 | 0.3 | 5 |
| 27 | On the Role of Material Post-Necking Stress-Strain Curve in the Simulation of Dynamic Impact. <i>AIP Conference Proceedings</i> , 2006 , | 0 | 5 |
| 26 | Stress triaxiality effect on void nucleation in ductile metals. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 1473-1486 | 3 | 4 |
| 25 | Crack Initiation and Propagation Clad Pipe Girth Weld Flaws 2014 , | | 4 |
| 24 | DAMAGE DEVELOPMENT IN HIGH PURITY COPPER UNDER VARYING DYNAMIC CONDITIONS AND MICROSTRUCTURAL STATES USING CONTINUUM DAMAGE MECHANICS 2009 , | | 4 |
| 23 | Experimental verification and theoretical simulation of fracture behaviours of composite materials. <i>Composite Structures</i> , 1993 , 23, 87-97 | 5.3 | 4 |
| 22 | Stress triaxiality effect on cleavage fracture stress. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 109, 102689 | 3.7 | 4 |
| 21 | Crack Initiation and Growth in Bimetallic Girth Welds 2014 , | | 3 |
| 20 | A Revised Approach to Damage Measurement Based on Stiffness Loss Technique 2008 , | | 3 |
| 19 | Investigation on flying plate diameter to thickness ratio influence on damage pattern and spall signal. <i>International Journal of Impact Engineering</i> , 2003 , 29, 127-138 | 4 | 3 |
| 18 | Numerical simulation of self-piercing riveting process (SRP) using continuum damage mechanics modelling. <i>Frattura Ed Integrita Strutturale</i> , 2018 , 12, 161-172 | 0.9 | 3 |
| 17 | Deformation and failure of OFHC copper under high strain rate shear compression 2017 , | | 2 |
| 16 | Predicting Creep Rupture Using Damage Mechanics 2014 , | | 2 |
| 15 | Assessment of an engineering approach to the evaluation of the cod of off-centered crack in pipes under bending for LBB design. <i>Engineering Fracture Mechanics</i> , 2012 , 81, 69-79 | 4.2 | 2 |

| | | | |
|----|---|-----|---|
| 14 | DUCTILE DAMAGE EVOLUTION ASSESSMENT IN HIGH PURITY COPPER AND STAINLESS STEEL SUBJECTED TO DIFFERENT SHOCK-LOADING PROFILES USING COHESIVE MODELING 2009 , | | 2 |
| 13 | Theoretical Forecasting and Experimental Validation of Damage Tolerance and Accumulation in Glass/Epoxy Laminates. <i>Journal of Reinforced Plastics and Composites</i> , 1992 , 11, 56-81 | 2.9 | 2 |
| 12 | Cleavage fracture prediction and assessment of a nuclear pressure vessel carbon steel using local approach criteria. <i>Nuclear Engineering and Design</i> , 1993 , 144, 1-7 | 1.8 | 2 |
| 11 | Influence of Anterior Capsulorhexis Shape, Centration, Size and Location on Intraocular Lens Position: A Finite Element Model. <i>Journal of Cataract and Refractive Surgery</i> , 2021 , | 2.3 | 2 |
| 10 | Mechanoluminescence of nylon under high velocity impact. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 182005 | 0.3 | 1 |
| 9 | Traumatic eye injuries as a result of blunt impact: computational issues. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 102003 | 0.3 | 1 |
| 8 | Dynamic Crack Tip Opening Displacement (DCTOD) as governing parameters for material fragmentation. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 112009 | 0.3 | 1 |
| 7 | Modeling of Multiaxial Stress Effects on the Creep Resistance of High Chromium Steel 2013 , | | 1 |
| 6 | The pathogenesis of retinal damage in human eye under impact and blast load 2012 , | | 1 |
| 5 | Strain capacity assessment of API X65 steel using damage mechanics. <i>Frattura Ed Integrita Strutturale</i> , 2017 , 11, 315-327 | 0.9 | 1 |
| 4 | Experimental measurement and model validation of COD in pipe under bending with off-centered circumferential crack. <i>Frattura Ed Integrita Strutturale</i> , 2014 , 8, 42-50 | 0.9 | |
| 3 | Use of Circumferentially Cracked Bar sample for CTOD fracture toughness determination in the upper shelf regime. <i>Frattura Ed Integrita Strutturale</i> , 2014 , 8, 252-262 | 0.9 | |
| 2 | Continuum Scale Material Modeling under Large Strain, Strain Rates and Pressure Incorporating Microstructure Effect 759-768 | | |
| 1 | High-rate characterization of additively manufactured Ti-6Al-4V using Taylor cylinder impact test: Experiments. <i>Material Design and Processing Communications</i> , 2020 , e192 | 0.9 | |