

Nicola Bonora

List of Publications by Year in Descending Order

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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	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
84	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
83	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
82	Flow Stress of bcc Metals over a Wide Range of Temperature and Strain Rates. <i>Metals</i> , 2020 , 10, 120	2.3	12
81	Stress triaxiality effect on cleavage fracture stress. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 109, 102689	3.7	4
80	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	
79	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
78	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
77	Modification of the Bonora Damage Model for shear failure. <i>Frattura Ed Integrita Strutturale</i> , 2018 , 12, 140-150	0.9	6
76	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
75	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
74	Analysis of reinforced concrete slabs under blast loading. <i>Procedia Structural Integrity</i> , 2018 , 9, 272-278	1	11
73	Deformation and failure of OFHC copper under high strain rate shear compression 2017 ,		2
72	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
71	Effect of microstructure on dynamic shear localisation in Alloy 718. <i>Mechanics of Materials</i> , 2017 , 109, 88-100	3.3	13
70	Firecracker eye exposure: experimental study and simulation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 1401-1411	3.8	7
69	Ductile fracture assessment of X65 steel using damage mechanics. <i>Procedia Structural Integrity</i> , 2017 , 3, 508-516	1	6

68	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
67	Strain capacity assessment of API X65 steel using damage mechanics. <i>Frattura Ed Integrita Strutturale</i> , 2017 , 11, 315-327	0.9	1
66	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
65	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
64	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
63	Deformation and texture evolution of OFHC copper during dynamic tensile extrusion. <i>Acta Materialia</i> , 2015 , 89, 163-180	8.4	18
62	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
61	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
60	On the postbuckling of flawed shear panels considering crack growth effect. <i>Thin-Walled Structures</i> , 2015 , 97, 186-198	4.7	5
59	Modelling human eye under blast loading. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 107-15	2.1	21
58	Numerical implementation of a new coupled cyclic plasticity and continuum damage model. <i>Computational Materials Science</i> , 2014 , 81, 538-547	3.2	16
57	Mechanoluminescence of nylon under high velocity impact. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 182005	0.3	1
56	Ductile damage in Taylor-anvil and rod-on-rod impact experiment. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 112035	0.3	5
55	Crack Initiation and Propagation Clad Pipe Girth Weld Flaws 2014 ,		4
54	Predicting Creep Rupture Using Damage Mechanics 2014 ,		2
53	Crack Initiation and Growth in Bimetallic Girth Welds 2014 ,		3
52	Traumatic eye injuries as a result of blunt impact: computational issues. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 102003	0.3	1
51	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

50	High strain rate fracture behaviour of fused silica. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 182036.3	6.3	6
49	Experimental assessment of ductile damage in P91 steel at high temperature. <i>International Journal of Damage Mechanics</i> , 2014 , 23, 567-587	3	7
48	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	
47	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	
46	Modeling of Multiaxial Stress Effects on the Creep Resistance of High Chromium Steel 2013 ,		1
45	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
44	The pathogenesis of retinal damage in human eye under impact and blast load 2012 ,		1
43	Modeling ductile metals under large strain, pressure and high strain rate incorporating damage and microstructure evolution 2012 ,		5
42	Ductile damage evolution in high purity copper taylor impact test 2012 ,		5
41	Primary blast injury to the eye and orbit: finite element modeling 2012 , 53, 8057-66		39
40	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
39	Determination of Johnson-holmquist constitutive model parameters for fused silica. <i>EPJ Web of Conferences</i> , 2012 , 26, 04011	0.3	5
38	The pathogenesis of retinal damage in blunt eye trauma: finite element modeling 2011 , 52, 3994-4002		51
37	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
36	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
35	Mechanism Based Creep Model Incorporating Damage. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2010 , 132,	1.8	14
34	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
33	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

32	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
31	DAMAGE DEVELOPMENT IN HIGH PURITY COPPER UNDER VARYING DYNAMIC CONDITIONS AND MICROSTRUCTURAL STATES USING CONTINUUM DAMAGE MECHANICS 2009 ,		4
30	DUCTILE DAMAGE EVOLUTION ASSESSMENT IN HIGH PURITY COPPER AND STAINLESS STEEL SUBJECTED TO DIFFERENT SHOCK-LOADING PROFILES USING COHESIVE MODELING 2009 ,		2
29	A Revised Approach to Damage Measurement Based on Stiffness Loss Technique 2008 ,		3
28	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
27	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
26	On the Role of Material Post-Necking Stress-Strain Curve in the Simulation of Dynamic Impact. <i>AIP Conference Proceedings</i> , 2006 ,	0	5
25	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
24	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
23	Simulation of failure under cyclic plastic loading by damage models. <i>International Journal of Plasticity</i> , 2006 , 22, 2146-2170	7.6	63
22	Ductile damage evolution under triaxial state of stress: theory and experiments. <i>International Journal of Plasticity</i> , 2005 , 21, 981-1007	7.6	211
21	Micromechanical modelling of cyclic plasticity incorporating damage. <i>International Journal of Solids and Structures</i> , 2005 , 42, 337-351	3.1	50
20	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
19	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
18	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
17	Modeling ductile damage under fully reversed cycling. <i>Computational Materials Science</i> , 2003 , 26, 129-143	12	88
16	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
15	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

14	Identification and measurement of ductile damage parameters. <i>Journal of Strain Analysis for Engineering Design</i> , 1999 , 34, 463-478	1.3	37
13	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
12	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
11	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
10	A nonlinear CDM model for ductile failure. <i>Engineering Fracture Mechanics</i> , 1997 , 58, 11-28	4.2	271
9	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
8	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
7	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
6	Microdamage effects on the overall response of long fibre/metal-matrix composites. <i>Composites</i> , 1994 , 25, 575-582		20
5	Experimental verification and theoretical simulation of fracture behaviours of composite materials. <i>Composite Structures</i> , 1993 , 23, 87-97	5.3	4
4	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
3	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
2	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
1	Continuum Scale Material Modeling under Large Strain, Strain Rates and Pressure Incorporating Microstructure Effect	759-768	