

# Duncan Camilleri

## List of Publications by Citations

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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.

41  
papers

318  
citations

11  
h-index

17  
g-index

50  
ext. papers

364  
ext. citations

2.1  
avg, IF

3.2  
L-index

#	Paper	IF	Citations
41	Simple thermo-elastic-plastic models for welding distortion simulation. <i>Journal of Materials Processing Technology</i> , <b>2006</b> , 176, 77-86	5.3	51
40	Computational prediction of out-of-plane welding distortion and experimental investigation. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2005</b> , 40, 161-176	1.3	48
39	Thermal Distortion of Stiffened Plate due to Fillet Welds Computational and Experimental Investigation. <i>Journal of Thermal Stresses</i> , <b>2006</b> , 29, 111-137	2.2	27
38	Computationally efficient welding distortion simulation techniques. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2005</b> , 13, 1365-1382	2	25
37	Procedural influences on non-linear distortions in welded thin-plate fabrication. <i>Thin-Walled Structures</i> , <b>2008</b> , 46, 1021-1034	4.7	20
36	Alternative simulation techniques for distortion of thin plate due to fillet-welded stiffeners. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2006</b> , 14, 1307-1327	2	18
35	The influence of manufacturing variances on the progressive failure of filament wound cylindrical pressure vessels. <i>Composite Structures</i> , <b>2015</b> , 133, 853-862	5.3	14
34	Thermal Stresses and Distortion Developed in Mild Steel DH36 Friction Stir-Welded Plates: An Experimental and Numerical Assessment. <i>Journal of Thermal Stresses</i> , <b>2015</b> , 38, 485-508	2.2	12
33	Design by analysis of ductile failure and buckling in torispherical pressure vessel heads. <i>Thin-Walled Structures</i> , <b>2008</b> , 46, 963-974	4.7	12
32	A Progressive Failure Analysis Applied to Fiber-Reinforced Composite Plates Subject to Out-of-Plane Bending. <i>Mechanics of Composite Materials</i> , <b>2014</b> , 49, 605-620	1.1	11
31	The applicability of using low transformation temperature welding wire to minimize unwanted residual stresses and distortions. <i>International Journal of Pressure Vessels and Piping</i> , <b>2013</b> , 110, 2-8	2.4	11
30	Filament Wound Composite Pressure Vessels and Pipes Subject to an Internal Pressure: An Experimental and Material Characterization Study. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , <b>2016</b> , 138,	1.2	11
29	Thermo-mechanical behaviour of DBC substrate assemblies subject to soldering fabrication processes. <i>Soldering and Surface Mount Technology</i> , <b>2012</b> , 24, 100-111	1.4	9
28	Design Support Tool for Prediction of Welding Distortion in Multiply Stiffened Plate Structures: Experimental and Computational Investigation. <i>Journal of Ship Production</i> , <b>2005</b> , 21, 219-234		9
27	Shakedown of a Thick Cylinder With a Radial Crosshole. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , <b>2009</b> , 131,	1.2	6
26	Local heat generation and material flow in friction stir welding of mild steel assemblies. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , <b>2016</b> , 230, 586-602	1.3	5
25	Air damping of high performance resonating micro-mirrors with angular vertical comb-drive actuators. <i>Microsystem Technologies</i> , <b>2019</b> , 1	1.7	4

24	Experimental investigation and finite element analysis of welding induced residual stresses. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2012</b> , 47, 140-152	1.3	4
23	Evaluating Plastic Loads in Torispherical Heads Using a New Criterion of Collapse. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , <b>2008</b> , 130,	1.2	4
22	Theoretical and finite element analysis of dynamic deformation in resonating micromirrors. <i>Microsystem Technologies</i> , <b>2018</b> , 24, 445-455	1.7	3
21	Gross Plastic Deformation of Axisymmetric Pressure Vessel Heads. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2006</b> , 41, 427-441	1.3	3
20	Design-by-Analysis Methods for Asymmetric or Unbalanced Cylindrical Composite Pressure Vessels <b>2014</b> ,		2
19	Gross Plastic Deformation of a Hemispherical Head With Cylindrical Nozzle: A Comparative Study <b>2007</b> ,		2
18	Design optimization of a dynamically flat resonating micro-mirror for pico-projection applications. <i>Microsystem Technologies</i> , <b>2018</b> , 1	1.7	2
17	Failure Envelopes for Composite Fiber Reinforced Pipe Elbows Subject to Combined Loading Numerical Assessment. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , <b>2018</b> , 140,	1.2	1
16	Fabrication of stiffened thin-plate structures and the problem of welding distortion <b>2014</b> , 14-38		1
15	Understanding welding distortion: thermal fields thermo-mechanical effects <b>2014</b> , 53-76		1
14	Simplified Thermo-Elastoplastic Numerical Modelling Techniques Applied to Friction Stir Welding of Mild Steel <b>2013</b> ,		1
13	The applicability and implementation of the discrete Big Bang-Big Crunch optimisation technique for discontinuous objective function in multi-material laminated composite pressure vessels. <i>International Journal of Pressure Vessels and Piping</i> , <b>2018</b> , 168, 39-48	2.4	0
12	Introduction: development of computational welding mechanics approach to welding distortion <b>2014</b> , 1-13		
11	Tools to deal with welding distortion: predictive modelling and research on in-process techniques <b>2014</b> , 39-52		
10	Computational simulation of welding distortion: an overview <b>2014</b> , 77-101		
9	Experimental investigation of models of welding distortion: methods, results and comparisons <b>2014</b> , 102-125		
8	Modelling thermal processes in welding <b>2014</b> , 126-155		
7	Computationally efficient methods for modelling welding processes <b>2014</b> , 156-176		

- 6 Finite-element thermo-mechanical techniques for welding distortion prediction **2014**, 177-198
- 5 Simulating welding distortion in butt welding of thin plates **2014**, 199-232
- 4 Exploiting welding distortion models: examples of design and manufacturing strategies to optimise fabrication **2014**, 265-319
- 3 Simulating welding distortion in fillet welding of stiffened plate structures **2014**, 233-264
- 2 Shakedown of a Thick Cylinder With a Radial Crosshole **2006**, 281
- 1 A Parametric Analysis on Hull Penetration Position and Frame Spacing Leading to Minimal Welding Distortion. *Journal of Ship Production and Design*, **2018**, 34, 211-225 0.3