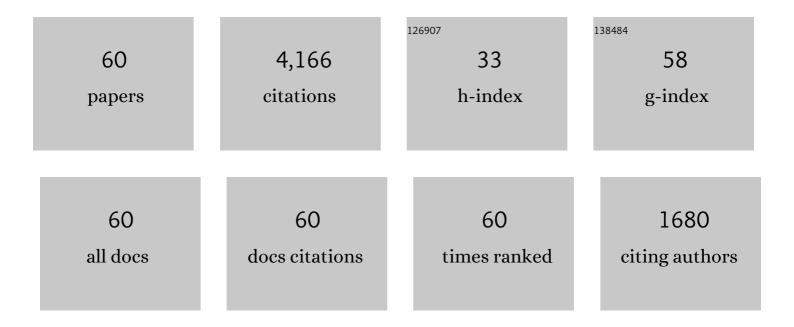
List of Publications by Year in descending order

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DEAN DENC

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Numerical simulation of temperature field and residual stress in multi-pass welds in stainless steel pipe and comparison with experimental measurements. Computational Materials Science, 2006, 37, 269-277. | 3.0 | 511 |
| 2 | FEM prediction of welding residual stress and distortion in carbon steel considering phase transformation effects. Materials & Design, 2009, 30, 359-366. | 5.1 | 450 |
| 3 | Prediction of welding distortion and residual stress in a thin plate butt-welded joint. Computational Materials Science, 2008, 43, 353-365. | 3.0 | 303 |
| 4 | Numerical simulation of welding distortion in large structures. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 4613-4627. | 6.6 | 248 |
| 5 | Prediction of welding residual stress in multi-pass butt-welded modified 9Cr–1Mo steel pipe considering phase transformation effects. Computational Materials Science, 2006, 37, 209-219. | 3.0 | 220 |
| 6 | Determination of welding deformation in fillet-welded joint by means of numerical simulation and comparison with experimental measurements. Journal of Materials Processing Technology, 2007, 183, 219-225. | 6.3 | 197 |
| 7 | Numerical and experimental investigations on welding residual stress in multi-pass butt-welded austenitic stainless steel pipe. Computational Materials Science, 2008, 42, 234-244. | 3.0 | 147 |
| 8 | A comparative study on welding temperature fields, residual stress distributions and deformations induced by laser beam welding and CO2 gas arc welding. Materials & Design, 2014, 63, 519-530. | 5.1 | 121 |
| 9 | FEM prediction of buckling distortion induced by welding in thin plate panel structures. Computational Materials Science, 2008, 43, 591-607. | 3.0 | 110 |
| 10 | Experimental and numerical investigations of welding distortion induced by CO2 gas arc welding in thin-plate bead-on joints. Materials & Design, 2013, 52, 720-729. | 5.1 | 96 |
| 11 | Applications of inherent strain and interface element to simulation of welding deformation in thin plate structures. Computational Materials Science, 2012, 51, 43-52. | 3.0 | 89 |
| 12 | Influence of transformation induced plasticity on simulated results of welding residual stress in low temperature transformation steel. Computational Materials Science, 2013, 78, 55-62. | 3.0 | 85 |
| 13 | Finite element analysis of temperature field, microstructure and residual stress in multi-pass butt-welded 2.25Cr–1Mo steel pipes. Computational Materials Science, 2008, 43, 681-695. | 3.0 | 77 |
| 14 | FEM prediction of welding residual stresses in a SUS304 girth-welded pipe with emphasis on stress distribution near weld start/end location. Computational Materials Science, 2010, 50, 612-621. | 3.0 | 74 |
| 15 | Investigation of welding residual stress in flash-butt joint of U71Mn rail steel by numerical simulation and experiment. Materials and Design, 2015, 88, 1296-1309. | 7.0 | 71 |
| 16 | Numerical simulation of residual stresses induced by laser beam welding in a SUS316 stainless steel pipe with considering initial residual stress influences. Nuclear Engineering and Design, 2010, 240, 688-696. | 1.7 | 70 |
| 17 | Numerical investigation of formation mechanism of welding residual stress in P92 steel multi-pass joints. Journal of Materials Processing Technology, 2017, 244, 240-252. | 6.3 | 69 |
| 18 | Prediction of residual stresses in a dissimilar metal welded pipe with considering cladding, buttering and post weld heat treatment. Computational Materials Science, 2009, 47, 398-408. | 3.0 | 67 |

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| 19 | Numerical simulation of welding temperature field, residual stress and deformation induced by electro slag welding. Computational Materials Science, 2012, 62, 23-34. | 3.0 | 67 |
| 20 | Effects of friction stir welding on microstructure and mechanical properties of magnesium alloy Mg-5Al-3Sn. Materials and Design, 2016, 110, 266-274. | 7.0 | 63 |
| 21 | Prediction of welding distortion in a curved plate structure by means of elastic finite element method. Journal of Materials Processing Technology, 2008, 203, 252-266. | 6.3 | 62 |
| 22 | Influence of groove type on welding-induced residual stress, deformation and width of sensitization region in a SUS304 steel butt welded joint. Advances in Engineering Software, 2015, 86, 39-48. | 3.8 | 59 |
| 23 | Influences of heat source model on welding residual stress and distortion in a multi-pass J-groove joint. Computational Materials Science, 2009, 46, 987-995. | 3.0 | 56 |
| 24 | Influence of deposition sequence on welding residual stress and deformation in an austenitic stainless steel J-groove welded joint. Materials & Design, 2013, 49, 1022-1033. | 5.1 | 56 |
| 25 | Predicting welding residual stresses in a dissimilar metal girth welded pipe using 3D finite element model with a simplified heat source. Nuclear Engineering and Design, 2011, 241, 46-54. | 1.7 | 54 |
| 26 | Investigations on welding residual stresses in penetration nozzles by means of 3D thermal elastic plastic FEM and experiment. Computational Materials Science, 2009, 45, 1031-1042. | 3.0 | 51 |
| 27 | Investigation of welding residual stress distribution in a thick-plate joint with an emphasis on the features near weld end-start. Materials & Design, 2015, 67, 303-312. | 5.1 | 49 |
| 28 | Investigations on welding distortion in an asymmetrical curved block by means of numerical simulation technology and experimental method. Computational Materials Science, 2010, 48, 187-194. | 3.0 | 47 |
| 29 | Investigating the influence of external restraint on welding distortion in thin-plate bead-on joint by means of numerical simulation and experiment. International Journal of Advanced Manufacturing Technology, 2016, 82, 1049-1062. | 3.0 | 41 |
| 30 | Influences of heat input, welding sequence and external restraint on twisting distortion in an asymmetrical curved stiffened panel. Advances in Engineering Software, 2018, 115, 439-451. | 3.8 | 39 |
| 31 | FEM analysis of residual stress induced by repair welding in SUS304 stainless steel pipe butt-welded joint. Journal of Manufacturing Processes, 2020, 58, 975-983. | 5.9 | 38 |
| 32 | Influence of Material Model on Prediction Accuracy of Welding Residual Stress in an Austenitic Stainless Steel Multi-pass Butt-Welded Joint. Journal of Materials Engineering and Performance, 2017, 26, 1494-1505. | 2.5 | 36 |
| 33 | Influence of tool rotation rates on temperature profiles and mechanical properties of friction stir welded AZ31 magnesium alloy. International Journal of Advanced Manufacturing Technology, 2017, 88, 2191-2200. | 3.0 | 35 |
| 34 | Finite element analysis of residual stress in 2.25Cr-1Mo steel pipe during welding and heat treatment process. Journal of Manufacturing Processes, 2019, 47, 110-118. | 5.9 | 35 |
| 35 | Simulating welding residual stress and deformation in a multi-pass butt-welded joint considering balance between computing time and prediction accuracy. International Journal of Advanced Manufacturing Technology, 2017, 93, 2215-2226. | 3.0 | 34 |
| 36 | Controlling angular distortion in high strength low alloy steel thick-plate T-joints. Journal of Materials Processing Technology, 2019, 267, 257-267. | 6.3 | 31 |

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| 37 | Influence of the groove shape on welding residual stresses in P92/SUS304 dissimilar metal butt-welded joints. Journal of Manufacturing Processes, 2021, 66, 376-386. | 5.9 | 31 |
| 38 | Prediction of the residual welding stress in 2.25Cr-1Mo steel by taking into account the effect of the solid-state phase transformations. Acta Metallurgica Sinica (English Letters), 2013, 26, 333-339. | 2.9 | 23 |
| 39 | Influence of welding sequence on residual stress distribution and deformation in Q345 steel H-section butt-welded joint. Journal of Materials Research and Technology, 2021, 13, 144-153. | 5.8 | 23 |
| 40 | Effects of pass arrangement on angular distortion, residual stresses and lamellar tearing tendency in thick-plate T-joints of low alloy steel. Journal of Materials Processing Technology, 2019, 274, 116293. | 6.3 | 21 |
| 41 | Determining inherent deformations of HSLA steel T-joint under structural constraint by means of thermal elastic plastic FEM. Thin-Walled Structures, 2020, 147, 106568. | 5.3 | 21 |
| 42 | Fabrication of reliable ZTA composite/Ti6Al4V alloy joints via vacuum brazing method: Microstructural evolution, mechanical properties and residual stress prediction. Journal of the European Ceramic Society, 2021, 41, 4273-4283. | 5.7 | 20 |
| 43 | FEM analysis of residual stress distribution near weld start/end location in thick plates. Computational Materials Science, 2011, 50, 2459-2469. | 3.0 | 18 |
| 44 | Comparison of welding residual stress and deformation induced by local vacuum electron beam welding and metal active gas arc welding in a stainless steel thick-plate joint. Journal of Materials Research and Technology, 2021, 13, 1967-1967. | 5.8 | 17 |
| 45 | Estimating inherent deformation in thin-plate Al-alloy joint by means of inverse analysis with the help of cutting technique. Advances in Engineering Software, 2016, 99, 89-99. | 3.8 | 16 |
| 46 | Influence of lumping passes on calculation accuracy and efficiency of welding residual stress of thick-plate butt joint in boiling water reactor. Engineering Structures, 2020, 222, 111136. | 5.3 | 16 |
| 47 | Investigating Welding Distortion of Thin-Plate Stiffened Panel Steel Structures by Means of Thermal Elastic Plastic Finite Element Method. Journal of Materials Engineering and Performance, 2021, 30, 3677-3690. | 2.5 | 16 |
| 48 | Influence of contact behavior on welding distortion and residual stress in a thin-plate butt-welded joint performed by partial-length welding. Thin-Walled Structures, 2022, 176, 109302. | 5.3 | 16 |
| 49 | Predicting Welding Residual Stress of a Multi-pass P92 Steel Butt-Welded Joint with Consideration of Phase Transformation and Tempering Effect. Journal of Materials Engineering and Performance, 2019, 28, 7452-7463. | 2.5 | 14 |
| 50 | Influence of Accelerated Cooling Condition on Welding Thermal Cycle, Residual Stress, and Deformation in SM490A Steel ESW Joint. Journal of Materials Engineering and Performance, 2015, 24, 3487-3501. | 2.5 | 12 |
| 51 | A new numerical model to predict welding-induced sensitization in SUS304 austenitic stainless steel joint. Journal of Materials Research and Technology, 2022, 17, 234-243. | 5.8 | 10 |
| 52 | Numerical Simulation of Residual Stress and Deformation in Wire Arc Additive Manufacturing. Crystals, 2022, 12, 803. | 2.2 | 10 |
| 53 | Microstructure and Mechanical Properties of Vacuum Diffusion Bonded Ti2AlNb/Ti/TC4 Joint. Crystals, 2021, 11, 770. | 2.2 | 6 |
| 54 | Investigating the influence of external restraint on welding distortion in thin-plate welded structures by means of numerical simulation technology. Journal of Physics: Conference Series, 2018, 1063, 012082. | 0.4 | 4 |

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| 55 | Indenter misalignment in impression creep test: Uncertainty, correction and recommendation. Journal of Strain Analysis for Engineering Design, 2022, 57, 84-94. | 1.8 | 4 |
| 56 | Finite Element Analyses of Residual Stresses in Typical Welded Joints Used in Nuclear Power Plants and Comparisons With Experiments. , 2010, , . | | 3 |
| 57 | Nanostructured Al/Ni energetic composites: processing, reaction properties and activation energy. Journal of Materials Research and Technology, 2022, 19, 3994-4002. | 5.8 | 3 |
| 58 | Bonding SiCp/Al Composites via Laser-Induced Exothermic Reactions. Crystals, 2021, 11, 535. | 2.2 | 2 |
| 59 | Wetting Behavior of the Ag-5CuO Brazing Alloy on ZTA Composite Ceramic with/without CuO Coating in Air. Crystals, 2021, 11, 609. | 2.2 | 2 |
| 60 | Characterization of ZTA Composite Ceramic/Ti6Al4V Alloy Joints Brazed by AgCu Filler Alloy Reinforced with One-Dimensional Al18B4O33 Single Crystal. Crystals, 2022, 12, 933. | 2.2 | 0 |