

Yannis P Korkolis

List of Publications by Citations

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|-------------------|-------------------------|----------------|-----------------|
| 75 papers | 1,308 citations | 21 h-index | 34 g-index |
| 82 ext. papers | 1,557 ext. citations | 3.6 avg, IF | 5.41 L-index |

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 75 | Inflation and burst of anisotropic aluminum tubes for hydroforming applications. <i>International Journal of Plasticity</i> , 2008 , 24, 509-543 | 7.6 | 90 |
| 74 | Dual-phase steel sheets under cyclic tension-compression to large strains: Experiments and crystal plasticity modeling. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 96, 65-87 | 5 | 85 |
| 73 | Path-dependent failure of inflated aluminum tubes. <i>International Journal of Plasticity</i> , 2009 , 25, 2059-2086 | 7.6 | 79 |
| 72 | Inflation and burst of aluminum tubes. Part II: An advanced yield function including deformation-induced anisotropy. <i>International Journal of Plasticity</i> , 2008 , 24, 1625-1637 | 7.6 | 63 |
| 71 | Material-based design of the extrusion of bimetallic tubes. <i>Computational Materials Science</i> , 2014 , 95, 63-73 | 3.2 | 62 |
| 70 | Determination of the fraction of plastic work converted into heat in metals. <i>Mechanics of Materials</i> , 2015 , 86, 71-80 | 3.3 | 56 |
| 69 | Cruciform Specimen Design and Verification for Constitutive Identification of Anisotropic Sheets. <i>Experimental Mechanics</i> , 2015 , 55, 1005-1022 | 2.6 | 56 |
| 68 | Mechanics and full-field deformation study of the Ring Hoop Tension Test. <i>International Journal of Solids and Structures</i> , 2014 , 51, 3042-3057 | 3.1 | 54 |
| 67 | Plastic anisotropy and ductile fracture of bake-hardened AA6013 aluminum sheet. <i>International Journal of Solids and Structures</i> , 2018 , 155, 123-139 | 3.1 | 44 |
| 66 | Plastic deformation of commercially-pure titanium: experiments and modeling. <i>International Journal of Plasticity</i> , 2018 , 105, 164-194 | 7.6 | 41 |
| 65 | Earing in cup-drawing of anisotropic Al-6022-T4 sheets. <i>International Journal of Material Forming</i> , 2017 , 10, 329-343 | 2 | 40 |
| 64 | Ductility of 304 stainless steel under pulsed uniaxial loading. <i>International Journal of Solids and Structures</i> , 2013 , 50, 1621-1633 | 3.1 | 40 |
| 63 | Anisotropy of thin-walled tubes by a new method of combined tension and shear loading. <i>International Journal of Plasticity</i> , 2015 , 71, 87-112 | 7.6 | 34 |
| 62 | Hydroforming of anisotropic aluminum tubes: Part II analysis. <i>International Journal of Mechanical Sciences</i> , 2011 , 53, 83-90 | 5.5 | 33 |
| 61 | Experimental investigation of the mechanical response of laser-welded dissimilar blanks from advanced- and ultra-high-strength steels. <i>Materials and Design</i> , 2016 , 90, 1115-1123 | 8.1 | 32 |
| 60 | Martensite Formation in Conventional and Isothermal Tension of 304 Austenitic Stainless Steel Measured by X-ray Diffraction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4891-4896 | 2.3 | 32 |
| 59 | Residual Ductility and Microstructural Evolution in Continuous-Bending-under-Tension of AA-6022-T4. <i>Materials</i> , 2016 , 9, | 3.5 | 31 |

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| 58 | Recent developments in hydroforming technology. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015 , 229, 572-596 | 2.4 | 23 |
| 57 | Over five-times improved elongation-to-fracture of dual-phase 1180 steel by continuous-bending-under-tension. <i>Materials and Design</i> , 2019 , 161, 95-105 | 8.1 | 23 |
| 56 | Material hardening of a high ductility aluminum alloy from a bulge test. <i>International Journal of Mechanical Sciences</i> , 2018 , 138-139, 476-488 | 5.5 | 22 |
| 55 | Modeling the ductile damage process in commercially pure titanium. <i>International Journal of Solids and Structures</i> , 2016 , 91, 26-45 | 3.1 | 22 |
| 54 | On the non-linear unloading behavior of a biaxially loaded dual-phase steel sheet. <i>International Journal of Mechanical Sciences</i> , 2018 , 138-139, 383-397 | 5.5 | 20 |
| 53 | Ductile fracture of an aluminum sheet under proportional loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 132, 103685 | 5 | 19 |
| 52 | Material response, localization, and failure of an aluminum alloy under combined shear and tension: Part I experiments. <i>International Journal of Plasticity</i> , 2019 , 120, 340-360 | 7.6 | 18 |
| 51 | Measurement of the strength differential effect of DP980 steel sheet and experimental validation using pure bending test. <i>Journal of Materials Processing Technology</i> , 2018 , 256, 247-253 | 5.3 | 18 |
| 50 | Thermomechanical response of a TWIP steel during monotonic and non-monotonic uniaxial loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 276-285 | 5.3 | 16 |
| 49 | Experimental study of continuous-bending-under-tension of AA6022-T4. <i>Journal of Materials Processing Technology</i> , 2019 , 266, 707-714 | 5.3 | 16 |
| 48 | Identification of the post-necking hardening response of rate- and temperature-dependent metals. <i>International Journal of Solids and Structures</i> , 2017 , 115-116, 149-160 | 3.1 | 15 |
| 47 | Elastic anisotropy of dual-phase steels with varying martensite content. <i>International Journal of Solids and Structures</i> , 2018 , 141-142, 264-278 | 3.1 | 15 |
| 46 | The transient force profile of low-speed droplet impact: measurements and model. <i>Journal of Fluid Mechanics</i> , 2019 , 867, 300-322 | 3.7 | 14 |
| 45 | Plasticity and ductile fracture modeling of an AlSiMg die-cast alloy. <i>International Journal of Fracture</i> , 2019 , 216, 101-121 | 2.3 | 13 |
| 44 | On the expansion of a circular hole in an orthotropic elastoplastic thin sheet. <i>International Journal of Mechanical Sciences</i> , 2020 , 182, 105706 | 5.5 | 13 |
| 43 | Material response, localization and failure of an aluminum alloy under combined shear and tension: Part II analysis. <i>International Journal of Plasticity</i> , 2019 , 120, 361-379 | 7.6 | 12 |
| 42 | Normal impact force of Rayleigh jets. <i>Physical Review Fluids</i> , 2019 , 4, | 2.8 | 11 |
| 41 | Thermal effects on the enhanced ductility in non-monotonic uniaxial tension of DP780 steel sheet. <i>Metals and Materials International</i> , 2016 , 22, 968-973 | 2.4 | 11 |

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|----|--|-----|----|
| 40 | Strength and ductility evaluation of cold-welded seams in aluminum tubes extruded through porthole dies. <i>Materials & Design</i> , 2015 , 67, 631-636 | | 10 |
| 39 | Experimental studies into the role of cyclic bending during stretching of dual-phase steel sheets. <i>International Journal of Material Forming</i> , 2020 , 13, 393-408 | 2 | 10 |
| 38 | Modeling of hole-expansion of AA6022-T4 aluminum sheets with anisotropic non-quadratic yield functions. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032083 | 0.3 | 9 |
| 37 | Semi-analytical modelling with numerical and experimental validation of electromagnetic forming using a uniform pressure actuator. <i>CIRP Annals - Manufacturing Technology</i> , 2018 , 67, 285-288 | 4.9 | 9 |
| 36 | Multiaxial Deformation Apparatus for Testing of Microtubes Under Combined Axial-Force and Internal-Pressure. <i>Experimental Mechanics</i> , 2016 , 56, 273-286 | 2.6 | 8 |
| 35 | Formability Enhancement in Titanium Tube-Flaring by Manipulating the Deformation Path. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015 , 137, | 3.3 | 8 |
| 34 | Ductile fracture under proportional and non-proportional multiaxial loading. <i>International Journal of Solids and Structures</i> , 2021 , 210-211, 88-108 | 3.1 | 8 |
| 33 | Plastic flow and anisotropy of a low-carbon steel over a range of strain-rates. <i>International Journal of Impact Engineering</i> , 2018 , 121, 157-171 | 4 | 6 |
| 32 | Failure of AA6022-T4 sheets in hole-expansion after uniaxial prestrain 2019 , | | 6 |
| 31 | Effect of plastic anisotropy and Portevin-Le Chatelier bands on hole-expansion in AA7075 sheets in -T6 and -W tempers. <i>Journal of Materials Processing Technology</i> , 2021 , 296, 117211 | 5.3 | 6 |
| 30 | Assessment of Anisotropy of Extruded Tubes by Ring Hoop Tension Test. <i>Procedia Engineering</i> , 2014 , 81, 2261-2266 | | 5 |
| 29 | Determination of the Shear Modulus of Orthotropic Thin Sheets With the Anticlastic-Plate-Bending Experiment. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2018 , 140, | 1.8 | 5 |
| 28 | Industry 4.0 in stamping: A wrinkling indicator for reduced-order modeling of deep-drawing processes. <i>Procedia Manufacturing</i> , 2020 , 51, 864-869 | 1.5 | 4 |
| 27 | Experimental Verification of the Tension-Compression Asymmetry of the Flow Stresses of a High Strength Steel Sheet. <i>Procedia Engineering</i> , 2017 , 207, 1976-1981 | | 4 |
| 26 | Biaxial unloading and springback behavior of dual-phase DP590 steel using cruciform specimens 2013 , | | 4 |
| 25 | Experimental and numerical investigation of deformation characteristics during tube spinning. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 110, 1851-1867 | 3.2 | 4 |
| 24 | Ductile fracture of an Al-Si-Mg die-casting aluminum alloy. <i>Procedia Engineering</i> , 2017 , 207, 2024-2029 | | 3 |
| 23 | Design of a Continuous-Bending-Under-Tension Machine and Initial Experiments on Al-6022-T4 2015 , | | 3 |

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|----|--|-----|---|
| 22 | Plastic deformation of AA6061-T6 at elevated temperatures: Experiments and modeling. <i>International Journal of Mechanical Sciences</i> , 2021 , 216, 106943 | 5.5 | 3 |
| 21 | Plasticity and Formability of Annealed, Commercially-Pure Aluminum: Experiments and Modeling. <i>Materials</i> , 2020 , 13, | 3.5 | 3 |
| 20 | Observation of Portevin-le Chatelier effect in aluminum alloy 7075-w under a heterogeneous stress field. <i>Scripta Materialia</i> , 2021 , 205, 114178 | 5.6 | 3 |
| 19 | A simplified model of elastic column buckling under constant lateral force restraint. <i>Archive of Applied Mechanics</i> , 2021 , 91, 2817-2832 | 2.2 | 2 |
| 18 | A shape interpolation procedure: Application to creating explicit grain structure models based on partial data sets. <i>Computational Materials Science</i> , 2019 , 167, 42-51 | 3.2 | 1 |
| 17 | Experimental comparison of material removal rates in abrasive waterjet cutting and a novel droplet stream technique. <i>Procedia Manufacturing</i> , 2020 , 48, 586-592 | 1.5 | 1 |
| 16 | High-Speed Forming (Electromagnetic, Electrohydraulic, and Explosive Forming) 2019 , 265-294 | | 1 |
| 15 | Numerical study of the lateral crushing and re-inflation of stainless steel and aluminum tubes. <i>Journal of Manufacturing Processes</i> , 2013 , 15, 242-255 | 5 | 1 |
| 14 | Ductility enhancement in pulsed uniaxial tension of 304 stainless steel: Experiments and analysis 2013 , | | 1 |
| 13 | Hole-Expansion: Sensitivity of Failure Prediction on Plastic Anisotropy Modeling. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 28 | 2.2 | 1 |
| 12 | A study of forming of thin-walled hemispheres by mandrel-free spinning of commercially pure aluminum tubes. <i>Journal of Manufacturing Processes</i> , 2021 , 64, 306-322 | 5 | 1 |
| 11 | Ductile fracture of AA6111 alloy including the effect of bake-hardening. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012026 | 0.3 | 1 |
| 10 | Buckling and post-buckling of an elastica under a lateral restraining force. <i>International Journal of Solids and Structures</i> , 2021 , 233, 111178 | 3.1 | 1 |
| 9 | Robustness of deep-drawing finite-element simulations to process variations. <i>International Journal of Material Forming</i> , 2022 , 15, | 2 | 1 |
| 8 | Material modeling and simulation of continuous-bending-under-tension of AA6022-T4. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116658 | 5.3 | 0 |
| 7 | Anisotropic Plasticity and Application to Plane Stress 2020 , 79-99 | | |
| 6 | An Application of Homogeneous Anisotropic Hardening Model to the Prestrained Hole-Expansion Experiment. <i>Minerals, Metals and Materials Series</i> , 2021 , 1991-1998 | 0.3 | |
| 5 | Formability Improvements of AA5754-H32 at Room Temperature via Continuous Bending Under Tension (CBT) and Pre-forming Heat Treatment. <i>Minerals, Metals and Materials Series</i> , 2021 , 1805-1812 | 0.3 | |

- 4 Design of a New Cruciform-Like Specimen for Combined Tension and Shear of Metal Sheets. *Minerals, Metals and Materials Series*, **2021**, 1961-1967 0.3
- 3 Formability Improvements of DP 1180 Subjected to Continuous-Bending-Under-Tension. *IOP Conference Series: Materials Science and Engineering*, **2018**, 418, 012043 0.4
- 2 Sensitivity Study of Plastic Anisotropy on Failure Prediction in Hole-Expansion. *Minerals, Metals and Materials Series*, **2022**, 727-731 0.3
- 1 Shape Optimization of a Cruciform-Like Specimen for Combined Tension and Shear Loading. *Minerals, Metals and Materials Series*, **2022**, 389-397 0.3