Yannis P Korkolis

List of Publications by Year in Descending Order

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	Robustness of deep-drawing finite-element simulations to process variations. *International Journal of Material Forming*, **2022**, 15,	2	1
74	Sensitivity Study of Plastic Anisotropy on Failure Prediction in Hole-Expansion. *Minerals, Metals and Materials Series*, **2022**, 727-731	0.3	
73	Shape Optimization of a Cruciform-Like Specimen for Combined Tension and Shear Loading. *Minerals, Metals and Materials Series*, **2022**, 389-397	0.3	
72	Plastic deformation of AA6061-T6 at elevated temperatures: Experiments and modeling. *International Journal of Mechanical Sciences*, **2021**, 216, 106943	5.5	3
71	Hole-Expansion: Sensitivity of Failure Prediction on Plastic Anisotropy Modeling. *Journal of Manufacturing and Materials Processing*, **2021**, 5, 28	2.2	1
70	A simplified model of elastic column buckling under constant lateral force restraint. *Archive of Applied Mechanics*, **2021**, 91, 2817-2832	2.2	2
69	A study of forming of thin-walled hemispheres by mandrel-free spinning of commercially pure aluminum tubes. *Journal of Manufacturing Processes*, **2021**, 64, 306-322	5	1
68	Material modeling and simulation of continuous-bending-under-tension of AA6022-T4. *Journal of Materials Processing Technology*, **2021**, 287, 116658	5.3	0
67	Ductile fracture under proportional and non-proportional multiaxial loading. *International Journal of Solids and Structures*, **2021**, 210-211, 88-108	3.1	8
66	An Application of Homogeneous Anisotropic Hardening Model to the Prestrained Hole-Expansion Experiment. *Minerals, Metals and Materials Series*, **2021**, 1991-1998	0.3	
65	Formability Improvements of AA5754-H32 at Room Temperature via Continuous Bending Under Tension (CBT) and Pre-forming Heat Treatment. *Minerals, Metals and Materials Series*, **2021**, 1805-1812	0.3	
64	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	
63	Effect of plastic anisotropy and Portevin-Le Chatelier bands on hole-expansion in AA7075 sheets in -T6 and -W tempers. *Journal of Materials Processing Technology*, **2021**, 296, 117211	5.3	6
62	Observation of Portevin-le Chatelier effect in aluminum alloy 7075-w under a heterogeneous stress field. *Scripta Materialia*, **2021**, 205, 114178	5.6	3
61	Buckling and post-buckling of an elastica under a lateral restraining force. *International Journal of Solids and Structures*, **2021**, 233, 111178	3.1	1
60	Industry 4.0 in stamping: A wrinkling indicator for reduced-order modeling of deep-drawing processes. *Procedia Manufacturing*, **2020**, 51, 864-869	1.5	4
59	On the expansion of a circular hole in an orthotropic elastoplastic thin sheet. *International Journal of Mechanical Sciences*, **2020**, 182, 105706	5.5	13

58	Experimental comparison of material removal rates in abrasive waterjet cutting and a novel droplet stream technique. *Procedia Manufacturing*, **2020**, 48, 586-592	1.5	1
57	Anisotropic Plasticity and Application to Plane Stress **2020**, 79-99		
56	Experimental studies into the role of cyclic bending during stretching of dual-phase steel sheets. *International Journal of Material Forming*, **2020**, 13, 393-408	2	10
55	Plasticity and Formability of Annealed, Commercially-Pure Aluminum: Experiments and Modeling. *Materials*, **2020**, 13,	3.5	3
54	Experimental and numerical investigation of deformation characteristics during tube spinning. *International Journal of Advanced Manufacturing Technology*, **2020**, 110, 1851-1867	3.2	4
53	Ductile fracture of an aluminum sheet under proportional loading. *Journal of the Mechanics and Physics of Solids*, **2019**, 132, 103685	5	19
52	A shape interpolation procedure: Application to creating explicit grain structure models based on partial data sets. *Computational Materials Science*, **2019**, 167, 42-51	3.2	1
51	The transient force profile of low-speed droplet impact: measurements and model. *Journal of Fluid Mechanics*, **2019**, 867, 300-322	3.7	14
50	Material response, localization and failure of an aluminum alloy under combined shear and tension: Part II analysis. *International Journal of Plasticity*, **2019**, 120, 361-379	7.6	12
49	Material response, localization, and failure of an aluminum alloy under combined shear and tension: Part I experiments. *International Journal of Plasticity*, **2019**, 120, 340-360	7.6	18
48	Plasticity and ductile fracture modeling of an Al-Si-Mg die-cast alloy. *International Journal of Fracture*, **2019**, 216, 101-121	2.3	13
47	High-Speed Forming (Electromagnetic, Electrohydraulic, and Explosive Forming) **2019**, 265-294		1
46	Failure of AA6022-T4 sheets in hole-expansion after uniaxial prestrain **2019**,		6
45	Normal impact force of Rayleigh jets. *Physical Review Fluids*, **2019**, 4,	2.8	11
44	Over five-times improved elongation-to-fracture of dual-phase 1180 steel by continuous-bending-under-tension. *Materials and Design*, **2019**, 161, 95-105	8.1	23
43	Experimental study of continuous-bending-under-tension of AA6022-T4. *Journal of Materials Processing Technology*, **2019**, 266, 707-714	5.3	16
42	Plastic deformation of commercially-pure titanium: experiments and modeling. *International Journal of Plasticity*, **2018**, 105, 164-194	7.6	41
41	Elastic anisotropy of dual-phase steels with varying martensite content. *International Journal of Solids and Structures*, **2018**, 141-142, 264-278	3.1	15

40	Measurement of the strength differential effect of DP980 steel sheet and experimental validation using pure bending test. *Journal of Materials Processing Technology*, **2018**, 256, 247-253	5.3	18
39	Material hardening of a high ductility aluminum alloy from a bulge test. *International Journal of Mechanical Sciences*, **2018**, 138-139, 476-488	5.5	22
38	On the non-linear unloading behavior of a biaxially loaded dual-phase steel sheet. *International Journal of Mechanical Sciences*, **2018**, 138-139, 383-397	5.5	20
37	Plastic anisotropy and ductile fracture of bake-hardened AA6013 aluminum sheet. *International Journal of Solids and Structures*, **2018**, 155, 123-139	3.1	44
36	Plastic flow and anisotropy of a low-carbon steel over a range of strain-rates. *International Journal of Impact Engineering*, **2018**, 121, 157-171	4	6
35	Ductile fracture of AA6111 alloy including the effect of bake-hardening. *Journal of Physics: Conference Series*, **2018**, 1063, 012026	0.3	1
34	Determination of the Shear Modulus of Orthotropic Thin Sheets With the Anticlastic-Plate-Bending Experiment. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **2018**, 140,	1.8	5
33	Formability Improvements of DP 1180 Subjected to Continuous-Bending-Under-Tension. *IOP Conference Series: Materials Science and Engineering*, **2018**, 418, 012043	0.4	
32	Semi-analytical modelling with numerical and experimental validation of electromagnetic forming using a uniform pressure actuator. *CIRP Annals - Manufacturing Technology*, **2018**, 67, 285-288	4.9	9
31	Earing in cup-drawing of anisotropic Al-6022-T4 sheets. *International Journal of Material Forming*, **2017**, 10, 329-343	2	40
30	Identification of the post-necking hardening response of rate- and temperature-dependent metals. *International Journal of Solids and Structures*, **2017**, 115-116, 149-160	3.1	15
29	Experimental Verification of the Tension-Compression Asymmetry of the Flow Stresses of a High Strength Steel Sheet. *Procedia Engineering*, **2017**, 207, 1976-1981		4
28	Ductile fracture of an Al-Si-Mg die-casting aluminum alloy. *Procedia Engineering*, **2017**, 207, 2024-2029		3
27	Multiaxial Deformation Apparatus for Testing of Microtubes Under Combined Axial-Force and Internal-Pressure. *Experimental Mechanics*, **2016**, 56, 273-286	2.6	8
26	Experimental investigation of the mechanical response of laser-welded dissimilar blanks from advanced- and ultra-high-strength steels. *Materials and Design*, **2016**, 90, 1115-1123	8.1	32
25	Residual Ductility and Microstructural Evolution in Continuous-Bending-under-Tension of AA-6022-T4. *Materials*, **2016**, 9,	3.5	31
24	Modeling of hole-expansion of AA6022-T4 aluminum sheets with anisotropic non-quadratic yield functions. *Journal of Physics: Conference Series*, **2016**, 734, 032083	0.3	9
23	Thermal effects on the enhanced ductility in non-monotonic uniaxial tension of DP780 steel sheet. *Metals and Materials International*, **2016**, 22, 968-973	2.4	11

22	Modeling the ductile damage process in commercially pure titanium. *International Journal of Solids and Structures*, **2016**, 91, 26-45	3.1	22
21	Dual-phase steel sheets under cyclic tension–compression to large strains: Experiments and crystal plasticity modeling. *Journal of the Mechanics and Physics of Solids*, **2016**, 96, 65-87	5	85
20	Thermomechanical response of a TWIP steel during monotonic and non-monotonic uniaxial loading. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2016**, 674, 276-285	5.3	16
19	Strength and ductility evaluation of cold-welded seams in aluminum tubes extruded through porthole dies. *Materials & Design*, **2015**, 67, 631-636		10
18	Determination of the fraction of plastic work converted into heat in metals. *Mechanics of Materials*, **2015**, 86, 71-80	3.3	56
17	Cruciform Specimen Design and Verification for Constitutive Identification of Anisotropic Sheets. *Experimental Mechanics*, **2015**, 55, 1005-1022	2.6	56
16	Anisotropy of thin-walled tubes by a new method of combined tension and shear loading. *International Journal of Plasticity*, **2015**, 71, 87-112	7.6	34
15	Recent developments in hydroforming technology. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2015**, 229, 572-596	2.4	23
14	Design of a Continuous-Bending-Under-Tension Machine and Initial Experiments on Al-6022-T4 **2015**,		3
13	Formability Enhancement in Titanium Tube-Flaring by Manipulating the Deformation Path. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2015**, 137,	3.3	8
12	Mechanics and full-field deformation study of the Ring Hoop Tension Test. *International Journal of Solids and Structures*, **2014**, 51, 3042-3057	3.1	54
11	Material-based design of the extrusion of bimetallic tubes. *Computational Materials Science*, **2014**, 95, 63-73	3.2	62
10	Martensite Formation in Conventional and Isothermal Tension of 304 Austenitic Stainless Steel Measured by X-ray Diffraction. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 4891-4896	2.3	32
9	Assessment of Anisotropy of Extruded Tubes by Ring Hoop Tension Test. *Procedia Engineering*, **2014**, 81, 2261-2266		5
8	Numerical study of the lateral crushing and re-inflation of stainless steel and aluminum tubes. *Journal of Manufacturing Processes*, **2013**, 15, 242-255	5	1
7	Ductility of 304 stainless steel under pulsed uniaxial loading. *International Journal of Solids and Structures*, **2013**, 50, 1621-1633	3.1	40
6	Ductility enhancement in pulsed uniaxial tension of 304 stainless steel: Experiments and analysis **2013**,		1
5	Biaxial unloading and springback behavior of dual-phase DP590 steel using cruciform specimens **2013**,		4

4	Hydroforming of anisotropic aluminum tubes: Part II analysis. *International Journal of Mechanical Sciences*, **2011**, 53, 83-90	5.5	33
3	Path-dependent failure of inflated aluminum tubes. *International Journal of Plasticity*, **2009**, 25, 2059-2080	7.6	79
2	Inflation and burst of anisotropic aluminum tubes for hydroforming applications. *International Journal of Plasticity*, **2008**, 24, 509-543	7.6	90
1	Inflation and burst of aluminum tubes. Part II: An advanced yield function including deformation-induced anisotropy. *International Journal of Plasticity*, **2008**, 24, 1625-1637	7.6	63