Wei Tong

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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.

73	2, 051 citations	24	44
papers		h-index	g-index
77 ext. papers	2,244 ext. citations	3.1 avg, IF	5.27 L-index

#	Paper	IF	Citations
73	Fast, Robust and Accurate Digital Image Correlation Calculation Without Redundant Computations. <i>Experimental Mechanics</i> , 2013 , 53, 1277-1289	2.6	283
72	An Evaluation of Digital Image Correlation Criteria for Strain Mapping Applications. Strain, 2005, 41, 16	57 <u>-1</u> 75	173
71	Spatio-temporal characteristics of the Portevinâlle Chlelier effect in austenitic steel with twinning induced plasticity. <i>International Journal of Plasticity</i> , 2009 , 25, 2298-2330	7.6	147
7°	Microstructural effects of AZ31 magnesium alloy on its tensile deformation and failure behaviors. <i>Materials Science & Discourse and Processing</i> , 2006 , 418, 341-356	5.3	124
69	Pressure-shear impact investigation of strain rate history effects in oxygen-free high-conductivity copper. <i>Journal of the Mechanics and Physics of Solids</i> , 1992 , 40, 1251-1294	5	99
68	Time-resolved strain mapping measurements of individual Portevinâlle Chatelier deformation bands. <i>Scripta Materialia</i> , 2005 , 53, 87-92	5.6	91
67	Deformation and fracture of miniature tensile bars with resistance-spot-weld microstructures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 2651-260	69 ^{2.3}	91
66	An experimental study on grain deformation and interactions in an Al-0.5%Mg multicrystal. <i>International Journal of Plasticity</i> , 2004 , 20, 523-542	7.6	84
65	Detection of plastic deformation patterns in a binary aluminum alloy. <i>Experimental Mechanics</i> , 1997 , 37, 452-459	2.6	69
64	Cracking and decohesion of a thin Al2O3 film on a ductile AlâB%Mg substrate. <i>Acta Materialia</i> , 2005 , 53, 477-485	8.4	69
63	ERROR ASSESSMENT FOR STRAIN MAPPING BY DIGITAL IMAGE CORRELATION. <i>Experimental Techniques</i> , 1998 , 22, 19-21	1.4	67
62	Inertial Effects on Void Growth in Porous Viscoplastic Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1995 , 62, 633-639	2.7	53
61	Fatigue properties of a dental implant produced by electron beam melting (EBM). <i>Journal of Materials Processing Technology</i> , 2015 , 226, 255-263	5.3	52
60	In-situ surface characterization of a binary aluminum alloy during tensile deformation. <i>Scripta Materialia</i> , 1997 , 36, 1339-1344	5.6	39
59	Strain characterization of propagative deformation bands. <i>Journal of the Mechanics and Physics of Solids</i> , 1998 , 46, 2087-2102	5	37
58	Dynamic pore collapse in viscoplastic materials. <i>Journal of Applied Physics</i> , 1993 , 74, 2425-2435	2.5	36
57	The bio-compatible dental implant designed by using non-stochastic porosity produced by Electron Beam Melting (EBM). <i>Journal of Materials Processing Technology</i> , 2014 , 214, 1728-1739	5.3	34

(2007-2009)

56	An iterative procedure for determining effective stressâltrain curves of sheet metals. <i>International Journal of Mechanics and Materials in Design</i> , 2009 , 5, 13-27	2.5	33	
55	Subpixel image registration with reduced bias. <i>Optics Letters</i> , 2011 , 36, 763-5	3	31	
54	Identification of post-necking strain hardening behavior of thin sheet metals from image-based surface strain data in uniaxial tension tests. <i>International Journal of Solids and Structures</i> , 2015 , 75-76, 12-31	3.1	30	
53	Formulation of LucasâRanade Digital Image Correlation Algorithms for Non-contact Deformation Measurements: A Review. <i>Strain</i> , 2013 , 49, 313-334	1.7	29	
52	A plane stress anisotropic plastic flow theory for orthotropic sheet metals. <i>International Journal of Plasticity</i> , 2006 , 22, 497-535	7.6	28	
51	Particle-level modeling of dynamic consolidation of Ti-SiC powders. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1995 , 3, 771-796	2	26	
50	A high resolution DIC technique for measuring small thermal expansion of film specimens. <i>Optics and Lasers in Engineering</i> , 2013 , 51, 30-33	4.6	24	
49	Effective elastic moduli and characterization of a particulate metal-matrix composite with damaged particles. <i>Composites Science and Technology</i> , 1994 , 52, 247-252	8.6	22	
48	Plastic surface strain mapping of bent sheets by image correlation. <i>Experimental Mechanics</i> , 2004 , 44, 502-511	2.6	20	
47	Uniaxial Tensile and Simple Shear Behavior of Resistance Spot-Welded Dual-Phase Steel Joints. <i>Journal of Materials Engineering and Performance</i> , 2008 , 17, 517-534	1.6	18	
46	Processing SiC-particulate reinforced titanium-based metal matrix composites by shock wave consolidation. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 235-250		18	
45	A Finite Element Analysis of a Tapered Flat Sheet Tensile Specimen. <i>Experimental Mechanics</i> , 2009 , 49, 317-330	2.6	16	
44	Strain Accumulation in Polymer Electrolyte Membrane and Membrane Electrode Assembly Materials During a Single Hydration/Dehydration Cycle. <i>Journal of Fuel Cell Science and Technology</i> , 2007 , 4, 19-28		15	
43	Mode I Fracture at Spot Welds in Dual-Phase Steel: An Application of Reverse Digital Image Correlation. <i>Experimental Mechanics</i> , 2010 , 50, 1199-1212	2.6	13	
42	Technical Application Series. Experimental Techniques, 2004, 28, 63-67	1.4	13	
41	A Constitutive Model for Friction in Forming. CIRP Annals - Manufacturing Technology, 1993, 42, 361-36	64.9	13	
40	An Improved Error Evaluation in One-Dimensional Deformation Measurements by Linear Digital Image Correlation. <i>Experimental Mechanics</i> , 2011 , 51, 1019-1031	2.6	12	
39	On Serrated Plastic Flow in an AA5052-H32 Sheet. <i>Journal of Engineering Materials and Technology,</i> Transactions of the ASME, 2007 , 129, 332-341	1.8	11	

38	Modeling the Rotation of Orthotropic Axes of Sheet Metals Subjected to Off-Axis Uniaxial Tension. Journal of Applied Mechanics, Transactions ASME, 2004 , 71, 521-531	2.7	11
37	Generalized fourth-order Hillâ日1979 yield function for modeling sheet metals in plane stress. <i>Acta Mechanica</i> , 2016 , 227, 2719-2733	2.1	11
36	Comparative evaluation of non-associated quadratic and associated quartic plasticity models for orthotropic sheet metals. <i>International Journal of Solids and Structures</i> , 2017 , 128, 133-148	3.1	10
35	Local Plastic Deformation and Failure Behavior of Nd:YAG Laser Welds in AA5182-O and AA6111-T4. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 3063-3086	2.3	10
34	Pressure-shear stress wave analysis in plate impact experiments. <i>International Journal of Impact Engineering</i> , 1997 , 19, 147-164	4	8
33	Calibration of a complete homogeneous polynomial yield function of six degrees for modeling orthotropic steel sheets. <i>Acta Mechanica</i> , 2018 , 229, 2495-2519	2.1	7
32	An improved method of determining Gotohâl nine material constants for a sheet metal with only seven or less experimental inputs. <i>International Journal of Mechanical Sciences</i> , 2018 , 140, 394-406	5.5	7
31	Interaction between dislocations and alloying elements and its implication on crystal plasticity of aluminum alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 309-310, 300-303	5.3	7
30	Rise time in shock consolidation of materials. <i>Applied Physics Letters</i> , 1994 , 65, 2783-2785	3.4	7
29	Algebraic Convexity Conditions for Gotoh's Nonquadratic Yield Function. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85,	2.7	6
28	A perturbation analysis of the unstable plastic flow pattern evolution in an aluminum alloy. <i>International Journal of Solids and Structures</i> , 2006 , 43, 5931-5952	3.1	6
27	On the Parameter Identification of Polynomial Anisotropic Yield Functions. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016 , 138,	3.3	5
26	Application of Gotoh's Orthotropic Yield Function for Modeling Advanced High-Strength Steel Sheets. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016 , 138,	3.3	5
25	Reduction of Noise-Induced Bias in Displacement Estimation by Linear Off-Pixel Digital Image Correlation. <i>Strain</i> , 2013 , 49, 158-166	1.7	4
24	A planar plastic flow theory of orthotropic sheet metals and the experimental procedure for its evaluations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2005 , 461, 1775-1809	2.4	4
23	Mechanical Properties of Metallic Thin Films: Tensile Tests vs. Indentation Tests. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 782, 1		4
22	On the New Shear Constraint for Plane-Stress Orthotropic Plasticity Modeling of Sheet Metals. <i>Experimental Mechanics</i> , 2020 , 60, 889-905	2.6	3
21	Recent Developments in Modeling Shock Compression of Porous Materials 1997 , 177-203		3

20	Tensile behavior of fusion-brazed aluminum alloy coach-peel joints fabricated by a dual-beam laser. Journal of Materials Processing Technology, 2018 , 261, 184-192	5.3	2
19	Crack Initiation and Growth in a Notched NiTi Shape Memory Alloy Sheet. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 785, 771		2
18	A New Perspective on the Mathematical Modeling of Highly Nonlinear Anisotropic Plastic Flows in a Heterogeneous Solid. <i>Solid State Phenomena</i> , 2005 , 105, 271-276	0.4	2
17	Mechanical Properties and Stresses in Thin Gold Films on a Silicon Substrate. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 695, 1		2
16	The Effect of Material Inhomogeneity on Serrated Plastic Flows. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 578, 33		2
15	Characterizing and Modeling Plastic Strain Inhomogeneity in Thin Metallic Sheets. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 538, 179		1
14	On the Certification of Positive and Convex Gotohâl Fourth-Order Yield Function. <i>Journal of Physics:</i> Conference Series, 2018 , 1063, 012093	0.3	1
13	Non-Quadratic Pseudo Dual Potentials for Plastic Flow Modeling. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022 , 1238, 012004	0.4	1
12	Process optimization of laser hot-wire cladding with high-power direct diode laser via the response surface methodology. <i>International Journal of Advanced Manufacturing Technology</i> ,1	3.2	O
11	Finite Element Calculation of Anisotropy of Hole Expansion in a Thin Steel Sheet with Six Degrees Polynomial Yield Function. <i>Key Engineering Materials</i> , 2019 , 794, 260-266	0.4	
10	On the Image Correlation Measurement of Displacement Fields With Strong Strain Gradients Or Discontinuities 2007 , 673-674		
9	Microindentation of Coarse-Grained Polycrystalline Brass. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 750, 1		
8	Coarse Slip Bands in a Single-Crystalline Aluminum Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 653, 1		
7	A kinematics perspective on the micro-to-macro transition in anisotropic plasticity modeling of polycrystalline solids 2003 , 693-695		
6	3D Surface Elastic-Plastic Strain Mapping in Hemming, Bending, and Indentation Tests 2007 , 559-560		
5	On the convexity bound of the generalized Druckerâd yield function CB2001 for orthotropic sheets. <i>Acta Mechanica</i> , 2021 , 232, 3259-3275	2.1	
4	Finite element calculations of hole expansion in a thin steel sheet with polynomial yield functions of four and six degrees. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012095	0.3	
3	Implicitization of the Vegter Yield Criterion. IOP Conference Series: Materials Science and Engineering, 2022, 1238, 012007	0.4	

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On Strain Hardening Modeling in Associated and Non-Associated Orthotropic Plasticity. *Minerals, Metals and Materials Series*, **2022**, 365-374

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On the Generalized Plane-Strain Constraints for Orthotropic Plasticity Modeling of Sheet Metals. *Minerals, Metals and Materials Series*, **2022**, 231-239

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