Wei Tong

List of Publications by Year in descending order

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257357 197736 2,474 74 24 49 citations h-index g-index papers 78 78 78 1694 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Process optimization of laser hot-wire cladding with high-power direct diode laser via the response surface methodology. International Journal of Advanced Manufacturing Technology, 2022, 120, 8089-8103.	1.5	8
2	Non-Quadratic Pseudo Dual Potentials for Plastic Flow Modeling. IOP Conference Series: Materials Science and Engineering, 2022, 1238, 012004.	0.3	1
3	Implicitization of the Vegter Yield Criterion. IOP Conference Series: Materials Science and Engineering, 2022, 1238, 012007.	0.3	O
4	On the convexity bound of the generalized Drucker's yield function CB2001 for orthotropic sheets. Acta Mechanica, 2021, 232, 3259-3275.	1.1	1
5	On the New Shear Constraint for Plane-Stress Orthotropic Plasticity Modeling of Sheet Metals. Experimental Mechanics, 2020, 60, 889-905.	1.1	4
6	Finite Element Calculation of Anisotropy of Hole Expansion in a Thin Steel Sheet with Six Degrees Polynomial Yield Function. Key Engineering Materials, 2019, 794, 260-266.	0.4	0
7	Calibration of a complete homogeneous polynomial yield function of six degrees for modeling orthotropic steel sheets. Acta Mechanica, 2018, 229, 2495-2519.	1.1	10
8	Algebraic Convexity Conditions for Gotoh's Nonquadratic Yield Function. Journal of Applied Mechanics, Transactions ASME, 2018, 85, .	1.1	8
9	An improved method of determining Gotoh's nine material constants for a sheet metal with only seven or less experimental inputs. International Journal of Mechanical Sciences, 2018, 140, 394-406.	3.6	11
10	On the Certification of Positive and Convex Gotoh's Fourth-Order Yield Function. Journal of Physics: Conference Series, 2018, 1063, 012093.	0.3	3
11	Finite element calculations of hole expansion in a thin steel sheet with polynomial yield functions of four and six degrees. Journal of Physics: Conference Series, 2018, 1063, 012095.	0.3	O
12	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.	3.1	2
13	Comparative evaluation of non-associated quadratic and associated quartic plasticity models for orthotropic sheet metals. International Journal of Solids and Structures, 2017, 128, 133-148.	1.3	12
14	Application of Gotoh's Orthotropic Yield Function for Modeling Advanced High-Strength Steel Sheets. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	1.3	8
15	Generalized fourth-order Hill's 1979 yield function for modeling sheet metals in plane stress. Acta Mechanica, 2016, 227, 2719-2733.	1.1	11
16	On the Parameter Identification of Polynomial Anisotropic Yield Functions. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	1.3	5
17	Identification of post-necking strain hardening behavior of thin sheet metals from image-based surface strain data in uniaxial tension tests. International Journal of Solids and Structures, 2015, 75-76, 12-31.	1.3	42
18	Fatigue properties of a dental implant produced by electron beam melting \hat{A}^{\otimes} (EBM). Journal of Materials Processing Technology, 2015, 226, 255-263.	3.1	64

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19	The bio-compatible dental implant designed by using non-stochastic porosity produced by Electron Beam Melting® (EBM). Journal of Materials Processing Technology, 2014, 214, 1728-1739.	3.1	37
20	Formulation of Lucas–Kanade Digital Image Correlation Algorithms for Nonâ€contact Deformation Measurements: A Review. Strain, 2013, 49, 313-334.	1.4	35
21	Fast, Robust and Accurate Digital Image Correlation Calculation Without Redundant Computations. Experimental Mechanics, 2013, 53, 1277-1289.	1.1	400
22	A high resolution DIC technique for measuring small thermal expansion of film specimens. Optics and Lasers in Engineering, 2013, 51, 30-33.	2.0	34
23	Reduction of Noiseâ€Induced Bias in Displacement Estimation by Linear Offâ€Pixel Digital Image Correlation. Strain, 2013, 49, 158-166.	1.4	5
24	Subpixel image registration with reduced bias. Optics Letters, 2011, 36, 763.	1.7	37
25	An Improved Error Evaluation in One-Dimensional Deformation Measurements by Linear Digital Image Correlation. Experimental Mechanics, 2011, 51, 1019-1031.	1.1	13
26	Mechanical Characterization of Biological Tissue: Finite Element Modeling. , 2010, , .		0
27	Mode I Fracture at Spot Welds in Dual-Phase Steel: An Application of Reverse Digital Image Correlation. Experimental Mechanics, 2010, 50, 1199-1212.	1.1	13
28	Microstructure-Based Modeling of Ti-6Al-4V Lattice Structures and Trabecular Bone. , 2010, , .		0
29	Spatio-temporal characteristics of the Portevin–Le Châtelier effect in austenitic steel with twinning induced plasticity. International Journal of Plasticity, 2009, 25, 2298-2330.	4.1	161
30	An iterative procedure for determining effective stress–strain curves of sheet metals. International Journal of Mechanics and Materials in Design, 2009, 5, 13-27.	1.7	37
31	A Finite Element Analysis of a Tapered Flat Sheet Tensile Specimen. Experimental Mechanics, 2009, 49, 317-330.	1.1	21
32	Uniaxial Tensile and Simple Shear Behavior of Resistance Spot-Welded Dual-Phase Steel Joints. Journal of Materials Engineering and Performance, 2008, 17, 517-534.	1.2	24
33	On Serrated Plastic Flow in an AA5052-H32 Sheet. Journal of Engineering Materials and Technology, Transactions of the ASME, 2007, 129, 332-341.	0.8	12
34	On the Image Correlation Measurement of Displacement Fields With Strong Strain Gradients Or Discontinuities., 2007,, 673-674.		0
35	Strain Accumulation in Polymer Electrolyte Membrane and Membrane Electrode Assembly Materials During a Single Hydration/Dehydration Cycle. Journal of Fuel Cell Science and Technology, 2007, 4, 19-28.	0.8	18
36	Local Plastic Deformation and Failure Behavior of Nd:YAG Laser Welds in AA5182-O and AA6111-T4. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 3063-3086.	1.1	10

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37	3D Surface Elastic-Plastic Strain Mapping in Hemming, Bending, and Indentation Tests., 2007,, 559-560.		O
38	A perturbation analysis of the unstable plastic flow pattern evolution in an aluminum alloy. International Journal of Solids and Structures, 2006, 43, 5931-5952.	1.3	6
39	A plane stress anisotropic plastic flow theory for orthotropic sheet metals. International Journal of Plasticity, 2006, 22, 497-535.	4.1	34
40	Microstructural effects of AZ31 magnesium alloy on its tensile deformation and failure behaviors. Materials Science & Description of A: Structural Materials: Properties, Microstructure and Processing, 2006, 418, 341-356.	2.6	143
41	Cracking and decohesion of a thin Al2O3 film on a ductile Al–5%Mg substrate. Acta Materialia, 2005, 53, 477-485.	3.8	82
42	An Evaluation of Digital Image Correlation Criteria for Strain Mapping Applications. Strain, 2005, 41, 167-175.	1.4	227
43	Time-resolved strain mapping measurements of individual Portevin–Le Chatelier deformation bands. Scripta Materialia, 2005, 53, 87-92.	2.6	97
44	Deformation and fracture of miniature tensile bars with resistance-spot-weld microstructures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 2651-2669.	1.1	100
45	A New Perspective on the Mathematical Modeling of Highly Nonlinear Anisotropic Plastic Flows in a Heterogeneous Solid. Solid State Phenomena, 2005, 105, 271-276.	0.3	3
46	A planar plastic flow theory of orthotropic sheet metals and the experimental procedure for its evaluations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 1775-1809.	1.0	6
47	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.	1.1	13
48	Technical Application Series. AN ADAPTIVE BACKWARD IMAGE CORRELATION TECHNIQUE FOR DEFORMATION MAPPING OF A GROWING CRACK IN THIN SHEETS. Experimental Techniques, 2004, 28, 63-67.	0.9	14
49	Plastic surface strain mapping of bent sheets by image correlation. Experimental Mechanics, 2004, 44, 502-511.	1.1	22
50	An experimental study on grain deformation and interactions in an Al-0.5%Mg multicrystal. International Journal of Plasticity, 2004, 20, 523-542.	4.1	98
51	Crack Initiation and Growth in a Notched NiTi Shape Memory Alloy Sheet. Materials Research Society Symposia Proceedings, 2003, 785, 771.	0.1	2
52	Mechanical Properties of Metallic Thin Films: Tensile Tests vs. Indentation Tests. Materials Research Society Symposia Proceedings, 2003, 782, 1.	0.1	5
53	A kinematics perspective on the micro-to-macro transition in anisotropic plasticity modeling of polycrystalline solids., 2003,, 693-695.		0
54	Microindentation of Coarse-Grained Polycrystalline α-Brass. Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	0

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55	Mechanical Properties and Stresses in Thin Gold Films on a Silicon Substrate. Materials Research Society Symposia Proceedings, 2001, 695, 1.	0.1	2
56	Interaction between dislocations and alloying elements and its implication on crystal plasticity of aluminum alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 309-310, 300-303.	2.6	7
57	Coarse Slip Bands in a Single-Crystalline Aluminum Alloy. Materials Research Society Symposia Proceedings, 2000, 653, 1.	0.1	o
58	The Effect of Material Inhomogeneity on Serrated Plastic Flows. Materials Research Society Symposia Proceedings, 1999, 578, 33.	0.1	2
59	ERROR ASSESSMENT FOR STRAIN MAPPING BY DIGITAL IMAGE CORRELATION. Experimental Techniques, 1998, 22, 19-21.	0.9	74
60	Strain characterization of propagative deformation bands. Journal of the Mechanics and Physics of Solids, 1998, 46, 2087-2102.	2.3	42
61	Characterizing and Modeling Plastic Strain Inhomogeneity in Thin Metallic Sheets. Materials Research Society Symposia Proceedings, 1998, 538, 179.	0.1	1
62	In-situ surface characterization of a binary aluminum alloy during tensile deformation. Scripta Materialia, 1997, 36, 1339-1344.	2.6	43
63	Detection of plastic deformation patterns in a binary aluminum alloy. Experimental Mechanics, 1997, 37, 452-459.	1.1	76
64	Pressure-shear stress wave analysis in plate impact experiments. International Journal of Impact Engineering, 1997, 19, 147-164.	2.4	11
65	Recent Developments in Modeling Shock Compression of Porous Materials., 1997,, 177-203.		4
66	Inertial Effects on Void Growth in Porous Viscoplastic Materials. Journal of Applied Mechanics, Transactions ASME, 1995, 62, 633-639.	1.1	64
67	Particle-level modeling of dynamic consolidation of Ti-SiC powders. Modelling and Simulation in Materials Science and Engineering, 1995, 3, 771-796.	0.8	27
68	Processing SiC-particulate reinforced titanium-based metal matrix composites by shock wave consolidation. Acta Metallurgica Et Materialia, 1995, 43, 235-250.	1.9	20
69	Rise time in shock consolidation of materials. Applied Physics Letters, 1994, 65, 2783-2785.	1.5	9
70	Effective elastic moduli and characterization of a particulate metal-matrix composite with damaged particles. Composites Science and Technology, 1994, 52, 247-252.	3.8	24
71	Processing and properties of SiC-particulate reinforced titanium matrix composites by shock wave consolidation. European Physical Journal Special Topics, 1994, 04, C8-331-C8-336.	0.2	0
72	A Constitutive Model for Friction in Forming. CIRP Annals - Manufacturing Technology, 1993, 42, 361-366.	1.7	16

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73	Dynamic pore collapse in viscoplastic materials. Journal of Applied Physics, 1993, 74, 2425-2435.	1.1	40
74	Pressure-shear impact investigation of strain rate history effects in oxygen-free high-conductivity copper. Journal of the Mechanics and Physics of Solids, 1992, 40, 1251-1294.	2.3	111