M W Fu

List of Publications by Year
in descending order

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218 papers	7,897 citations	50170 46 h-index	85405 71 g-index
220 all docs	220 docs citations	220 times ranked	3299 citing authors

#	Article	IF	Citations
1	Irregular growth of the Î³â€² phase in a Ni-based superalloys under slow cooling rate. Materials Letters, 2022, 307, 131067.	1.3	6
2	Experiment and modeling based studies of the mesoscaled deformation and forming limit of Cu/Ni clad foils using a newly developed damage model. International Journal of Plasticity, 2022, 149, 103173.	4.1	16
3	Constitutive modeling of multiscale polycrystals considering grain structures and orientations. International Journal of Mechanical Sciences, 2022, 216, 106992.	3.6	14
4	Deformation mode and wall thickness variation in conventional spinning of metal sheets. International Journal of Machine Tools and Manufacture, 2022, 173, 103846.	6.2	27
5	An anisotropic constitutive model for forming of aluminum tubes under both biaxial tension and pure shear stress states. International Journal of Plasticity, 2022, 152, 103259.	4.1	16
6	Electroplasticity in electrically-assisted forming: Process phenomena, performances and modelling. International Journal of Machine Tools and Manufacture, 2022, 175, 103871.	6.2	31
7	Numerical and experimental study of the size effect on deformation behavior and quality of microembossed multi-channel structures. Journal of Manufacturing Processes, 2022, 78, 363-375.	2.8	7
8	Anisotropic plasticity and fracture of alpha titanium sheets from cryogenic to warm temperatures. International Journal of Plasticity, 2022, 156, 103348.	4.1	17
9	Multi-aspect size effect transition from micro to macroscale: Modelling and experiment. International Journal of Plasticity, 2022, 156, 103364.	4.1	14
10	Multi-scale and multi-step modeling of thermal conductivities of 3D braided composites. International Journal of Mechanical Sciences, 2022, 228, 107466.	3.6	9
11	Prediction and control of bending quality of double-layered gap tube. International Journal of Mechanical Sciences, 2022, 228, 107474.	3.6	8
12	Modelling of the intergranular fracture of TWIP steels working at high temperature by using CZMâ€"CPFE method. International Journal of Plasticity, 2022, 156, 103366.	4.1	13
13	Intragranularly misoriented grain boundary evolution affected by local constraints and grain size in micro-scale deformation of ultra-thin metallic sheets. International Journal of Plasticity, 2022, 157, 103377.	4.1	7
14	An advanced method for efficiently generating composite RVEs with specified particle orientation. Composites Science and Technology, 2021, 205, 108647.	3.8	21
15	Circumferential twist in flow forming of tubular parts: Characterization, understanding and control. Journal of Manufacturing Processes, 2021, 65, 144-152.	2.8	10
16	Modelling of ultra-thin steel sheet in two-stage tensile deformation considering strain path change and grain size effect and application in multi-stage microforming. International Journal of Machine Tools and Manufacture, 2021, 164, 103713.	6.2	23
17	Experimental and numerical study of the size effect on compound Meso/Microforming behaviors and performances for making bulk parts by directly using sheet metals. Journal of Manufacturing Processes, 2021, 66, 506-520.	2.8	13
18	A multiscale constitutive model coupled with martensitic transformation kinetics for micro-scaled plastic deformation of metastable metal foils. International Journal of Mechanical Sciences, 2021, 202-203, 106503.	3.6	5

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19	The modified GTN-Thomason criterion for modelling of ductile fracture considering shear factor and size effect in micro-scaled plastic deformation. International Journal of Mechanical Sciences, 2021, 204, 106540.	3.6	22
20	Modelling of Springback in Tube Bending: A Generalized Analytical Approach. International Journal of Mechanical Sciences, 2021, 204, 106516.	3.6	27
21	Size effects in multi-scale materials processing and manufacturing. International Journal of Machine Tools and Manufacture, 2021, 167, 103755.	6.2	63
22	Re-precipitation mechanisms of the Î³â€² phase with sphere, near-sphere, cubic, octets and finally-dendrite in as-cast Ni-based superalloys. Journal of Alloys and Compounds, 2021, 876, 160104.	2.8	22
23	The effect of stress state and strain partition mode on the damage behavior of a Mg-Ca alloy. International Journal of Plasticity, 2021, 144, 103040.	4.1	19
24	Study of dislocation-twin boundary interaction mechanisms in plastic deformation of TWIP steel by discrete dislocation dynamics and dislocation density-based modeling. International Journal of Plasticity, 2021, 145, 103076.	4.1	39
25	Analysis of size dependent earing evolution in micro deep drawing of TWIP steel by using crystal plasticity modeling. International Journal of Mechanical Sciences, 2020, 165, 105200.	3.6	35
26	Deformation behavior and microstructure evolution of titanium alloys with lamellar microstructure in hot working process: A review. Journal of Materials Science and Technology, 2020, 39, 56-73.	5.6	135
27	Interactive effect of grain size and crystal structure on deformation behavior in progressive micro-scaled deformation of metallic materials. International Journal of Machine Tools and Manufacture, 2020, 148, 103473.	6.2	37
28	Temperature dependent evolution of anisotropy and asymmetry of Î±-Ti in thermomechanical working: Characterization and modeling. International Journal of Plasticity, 2020, 127, 102650.	4.1	43
29	Microstructure and microtexture evolution of dynamic recrystallization during hot deformation of a nickel-based superalloy. Materials and Design, 2020, 188, 108429.	3.3	37
30	Micro-mechanical model for the effective thermal conductivity of the multi-oriented inclusions reinforced composites with imperfect interfaces. International Journal of Heat and Mass Transfer, 2020, 148, 119167.	2.5	17
31	Study on the dynamic recrystallization mechanisms of Inconel 740 superalloy during hot deformation. Journal of Alloys and Compounds, 2020, 820, 153325.	2.8	95
32	Progressive microforming of pin-shaped plunger parts and the grain size effect on its forming quality. Materials and Design, 2020, 187, 108386.	3.3	22
33	A multiscale investigation into the effect of grain size on void evolution and ductile fracture: Experiments and crystal plasticity modeling. International Journal of Plasticity, 2020, 125, 133-149.	4.1	87
34	Experimental investigations and constitutive modeling of the dynamic recrystallization behavior of Inconel 740 superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 793, 139939.	2.6	20
35	Size effect on the shear damage under low stress triaxiality in micro-scaled plastic deformation of metallic materials. Materials and Design, 2020, 196, 109107.	3.3	18
36	Micro selective laser melting of NiTi shape memory alloy: Defects, microstructures and thermal/mechanical properties. Optics and Laser Technology, 2020, 131, 106374.	2.2	61

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37	A modified yield function for modeling of the evolving yielding behavior and micro-mechanism in biaxial deformation of sheet metals. International Journal of Plasticity, 2020, 129, 102707.	4.1	26
38	Microstructure and damage based constitutive modelling of hot deformation of titanium alloys. Journal of Alloys and Compounds, 2020, 831, 154851.	2.8	33
39	A finite strain thermodynamically-based constitutive modeling and analysis of viscoelastic-viscoplastic deformation behavior of glassy polymers. International Journal of Plasticity, 2019, 122, 135-163.	4.1	42
40	Interphase model for FE prediction of the effective thermal conductivity of the composites with imperfect interfaces. International Journal of Heat and Mass Transfer, 2019, 145, 118796.	2.5	12
41	Investigation on the enhanced maximum strain rate sensitivity (m) superplasticity of Mg-9Li-1Al alloy by a two-step deformation method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 764, 138219.	2.6	5
42	Numerical evaluation on the effective thermal conductivity of the composites with discontinuous inclusions: Periodic boundary condition and its numerical algorithm. International Journal of Heat and Mass Transfer, 2019, 134, 735-751.	2.5	29
43	DDRX and CDRX of an as-cast nickel-based superalloy during hot compression at Î³â€² sub-/super-solvus temperatures. Journal of Alloys and Compounds, 2019, 803, 16-29.	2.8	65
44	Manufacturing of advanced smart tooling for metal forming. CIRP Annals - Manufacturing Technology, 2019, 68, 605-628.	1.7	78
45	Characterization of the microscale forming limit for metal foils considering free surface roughening and failure mechanism transformation. Journal of Materials Processing Technology, 2019, 272, 111-124.	3.1	27
46	Study on size effect affected progressive microforming of conical flanged parts directly using sheet metals. Journal of Materials Processing Technology, 2019, 272, 72-86.	3.1	27
47	Mechanisms of DRX nucleation with grain boundary bulging and subgrain rotation during the hot working of nickel-based superalloys with columnar grains. Journal of Alloys and Compounds, 2019, 786, 636-647.	2.8	72
48	Influence of crystal structure on size dependent deformation behavior and strain heterogeneity in micro-scale deformation. International Journal of Plasticity, 2019, 118, 147-172.	4.1	54
49	Interactive effect of stress state and grain size on fracture behaviours of copper in micro-scaled plastic deformation. International Journal of Plasticity, 2019, 114, 126-143.	4.1	35
50	A new interpolative homogenization model for evaluation of the effective elasto-plastic responses of two-phase composites. Composite Structures, 2019, 210, 810-821.	3.1	9
51	Tribological behaviors in titanium sheet and tube forming at elevated temperatures: evaluation and modeling. International Journal of Advanced Manufacturing Technology, 2018, 97, 657-674.	1.5	17
52	Microstructure evolution in the conventional single side and bobbin tool friction stir welding of thick rolled 7085-T7452 aluminum alloy. Materials Characterization, 2018, 138, 48-55.	1.9	97
53	Formability limits and process window based on fracture analysis of 5A02-O aluminium alloy in splitting spinning. Journal of Materials Processing Technology, 2018, 257, 15-32.	3.1	19
54	Formation mechanism and control of flaring in forward tube spinning. International Journal of Advanced Manufacturing Technology, 2018, 94, 59-72.	1.5	18

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55	Study of microstructural grain and geometric size effects on plastic heterogeneities at grain-level by using crystal plasticity modeling with high-fidelity representative microstructures. International Journal of Plasticity, 2018, 100, 69-89.	4.1	79
56	Deformation characteristic and geometrical size effect in continuous manufacturing of cylindrical and variable-thickness flanged microparts. Journal of Materials Processing Technology, 2018, 252, 546-558.	3.1	18
57	Element diffusion model with variable coefficient in bimetallic bonding process. Journal of Materials Processing Technology, 2018, 253, 99-108.	3.1	18
58	Dependence of processing window and microstructural evolution on initial material state in direct electric resistance heat treatment of NiTi alloy. Materials and Design, 2018, 139, 549-564.	3.3	10
59	A Review of Progressive and Compound Forming of Bulk Microparts by Using Sheet Metals. MATEC Web of Conferences, 2018, 190, 01001.	0.1	4
60	Mechanical behavior of 7085-T7452 aluminum alloy thick plate joint produced by double-sided friction stir welding: Effect of welding parameters and strain rates. Journal of Manufacturing Processes, 2018, 35, 261-270.	2.8	23
61	A Two-Stage Physical-Based Model for Predicting Flow Stress of As-cast TiAl Alloy Under Hot Deformation Conditions. Journal of Materials Engineering and Performance, 2018, 27, 5384-5394.	1.2	5
62	Extrapolation based constitutive modeling of flow stress of titanium alloy sheet under hot-working condition. Materials and Design, 2018, 154, 96-107.	3.3	19
63	Microstructure evolution of Ti-6Al-2Zr-1Mo-1V alloy and its mechanism in multi-pass flow forming. Journal of Materials Processing Technology, 2018, 261, 86-97.	3.1	29
64	A ductile fracture model considering stress state and Zenerâ€"Hollomon parameter for hot deformation of metallic materials. International Journal of Mechanical Sciences, 2018, 144, 800-812.	3.6	49
65	Co-effect of microstructure and surface constraints on plastic deformation in micro- and mesoscaled forming process. International Journal of Advanced Manufacturing Technology, 2018, 98, 1861-1886.	1.5	10
66	Study on the Enhanced Superplasticity of Mg-Li Based Alloy by a Stepped Deformation Method. Defect and Diffusion Forum, 2018, 385, 103-108.	0.4	1
67	Influence of size effect and plastic strain gradient on the springback behaviour of metallic materials in microbending process. International Journal of Mechanical Sciences, 2018, 146-147, 105-115.	3.6	26
68	Comparative study on local and global mechanical properties of bobbin tool and conventional friction stir welded 7085-T7452 aluminum thick plate. Journal of Materials Science and Technology, 2018, 34, 173-184.	5.6	62
69	Anisotropic and asymmetrical yielding and its evolution in plastic deformation: Titanium tubular materials. International Journal of Plasticity, 2017, 90, 177-211.	4.1	67
70	Dynamic recrystallization based ductile fracture modeling in hot working of metallic materials. International Journal of Plasticity, 2017, 95, 105-122.	4.1	49
71	Constitutive modeling of size effect on deformation behaviors of amorphous polymers in micro-scaled deformation. International Journal of Plasticity, 2017, 89, 197-222.	4.1	27
72	Influences of size effect and stress condition on ductile fracture behavior in micro-scaled plastic deformation. Materials and Design, 2017, 131, 69-80.	3.3	36

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73	Effect of low-temperature aging treatment on thermally- and stress-induced phase transformations of nanocrystalline and coarse-grained NiTi wires. Materials and Design, 2017, 131, 49-59.	3.3	28
74	Strain-rate sensitivity of powder metallurgy superalloys associated with steady-state DRX during hot compression process. Metals and Materials International, 2017, 23, 350-358.	1.8	6
75	Study of deformation and ductile fracture behaviors in micro-scale deformation using a combined surface layer and grain boundary strengthening model. International Journal of Mechanical Sciences, 2017, 131-132, 924-937.	3.6	17
76	Forming limit of sheet metals in meso-scale plastic forming by using different failure criteria. International Journal of Mechanical Sciences, 2017, 120, 190-203.	3.6	41
77	Size effect affected deformation characteristics in micro deep drawing of TWIP domed-bottom cups. Procedia Engineering, 2017, 207, 2072-2077.	1.2	5
78	The cliff-valley approach in the P-maps of PM/W joints for manufacturing the dual-alloys turbine disc. Procedia Engineering, 2017, 207, 1117-1122.	1.2	0
79	Investigation of extrusion limit of Incoloy028 alloy tube by combining numerical and analytical methods. International Journal of Advanced Manufacturing Technology, 2016, 83, 177-185.	1.5	4
80	Experimental investigation and modeling of ductile fracture behavior of TRIP780 steel in hot working conditions. International Journal of Mechanical Sciences, 2016, 110, 108-115.	3.6	18
81	The combined lateral and axial extrusion process of a branched component with two asymmetrically radial features. Materials and Design, 2016, 111, 492-503.	3.3	5
82	Investigation on the maximum strain rate sensitivity (m) superplastic deformation of Mg-Li based alloy. Materials and Design, 2016, 112, 151-159.	3.3	24
83	A review of geometrical and microstructural size effects in micro-scale deformation processing of metallic alloy components. International Journal of Machine Tools and Manufacture, 2016, 109, 94-125.	6.2	109
84	Improvement of the thermoplastic formability of Zr65Cu17.5Ni10Al7.5 bulk metallic glass by minor addition of Erbium. Physica B: Condensed Matter, 2016, 502, 68-72.	1.3	2
85	Effect of grain size on the adhesive and ploughing friction behaviours of polycrystalline metals in forming process. International Journal of Mechanical Sciences, 2016, 117, 197-209.	3.6	20
86	Prediction and analysis of ductile fracture in sheet metal formingâ€"Part II: Application of the modified Ayada criterion. International Journal of Damage Mechanics, 2016, 25, 120-140.	2.4	11
87	Element diffusion model of bimetallic hot deformation in metallurgical bonding process. Materials and Design, 2016, 94, 433-443.	3.3	28
88	Abnormal flow behavior and necklace microstructure of powder metallurgy superalloys with previous particle boundaries (PPBs). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 652, 84-91.	2.6	23
89	Coupled modeling of anisotropy variation and damage evolution for high strength steel tubular materials. International Journal of Mechanical Sciences, 2016, 105, 41-57.	3.6	13
90	Deformation behavior and microstructure evolution in thermal-aided mesoforming of titanium dental abutment. Materials and Design, 2016, 89, 1283-1293.	3.3	25

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91	Modeling of slip, twinning and transformation induced plastic deformation for TWIP steel based on crystal plasticity. International Journal of Plasticity, 2016, 76, 186-212.	4.1	72
92	Applicability of the uncoupled ductile fracture criteria in micro-scaled plastic deformation. International Journal of Damage Mechanics, 2016, 25, 289-314.	2.4	9
93	Review on progressive microforming of bulk metal parts directly using sheet metals (Keynote Paper). MATEC Web of Conferences, 2015, 21, 09001.	0.1	2
94	Drawability and frictional behavior of pure molybdenum sheet in deep-drawing process at elevated temperature. International Journal of Advanced Manufacturing Technology, 2015, 78, 1005-1014.	1.5	13
95	Work-hardening effect and strain-rate sensitivity behavior during hot deformation of Tiâ€“5Alâ€“5Moâ€“5Vâ€“1Crâ€“1Fe alloy. Materials and Design, 2015, 82, 84-90.	3.3	41
96	Ductile fracture and deformation behavior in progressive microforming. Materials and Design, 2015, 83, 14-25.	3.3	45
97	Size effect on deformation behavior and ductile fracture in microforming of pure copper sheets considering free surface roughening. Materials and Design, 2015, 83, 400-412.	3.3	98
98	Effect of cooling path on the phase transformation of boron steel 22MnB5 in hot stamping process. International Journal of Advanced Manufacturing Technology, 2015, 81, 1391-1402.	1.5	18
99	Microstructure and superplastic deformation for aerospace Ti-alloys associated with Î±-phase curing behavior. Aerospace Science and Technology, 2015, 45, 416-421.	2.5	16
100	Competition between work-hardening effect and dynamic-softening behavior for processing as-cast GH4720Li superalloys with original dendrite microstructure during moderate-speed hot compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 642, 187-193.	2.6	54
101	Multivariable analysis of micro shearing process customized for progressive forming of micro-parts. International Journal of Mechanical Sciences, 2015, 93, 191-203.	3.6	37
102	Microstructural characterization, formation mechanism and fracture behavior of the needle Î´ phase in Feâ€“Niâ€“Cr type superalloys with high Nb content. Materials Characterization, 2015, 109, 36-42.	1.9	37
103	Discontinuous yielding in Ni-base superalloys during high-speed deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 383-389.	2.6	26
104	Size effect affected formability of sheet metals in micro/meso scale plastic deformation: Experiment and modeling. International Journal of Plasticity, 2015, 68, 34-54.	4.1	112
105	Prediction and analysis of ductile fracture in sheet metal formingâ€”Part I: A modified Ayada criterion. International Journal of Damage Mechanics, 2014, 23, 1189-1210.	2.4	19
106	The improved superelasticity of NiTi alloy via electropulsing treatment for minutes. Journal of Alloys and Compounds, 2014, 584, 225-231.	2.8	35
107	Hot deformation behavior of the 1.15Câ€“4.00Crâ€“3.00Vâ€“6.00Wâ€“5.00Mo powder metallurgy high speed steel. Materials & Design, 2014, 54, 854-863.	5.1	22
108	Experimental and theoretical study on the hot forming limit of 22MnB5 steel. International Journal of Advanced Manufacturing Technology, 2014, 71, 297-306.	1.5	45

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109	Effect of discharge voltage on the deformation of Ti Grade 1 rivet in electromagnetic riveting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 591, 26-32.	2.6	40
110	Thermostability and thermoplastic formability of (Zr65Cu17.5Ni10Al7.5)100â˜xREx (x=0.25â€“3.25, RE: Y, Gd,) Tj ETQq0 0 0 rgBT /Over	5.1	28
111	Study on the dynamic recrystallization behavior of Ti-alloy Tiâ€“10Vâ€“2Feâ€“3V in Î² processing via experiment and simulation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 619, 26-34.	2.6	54
112	Effect of the initial microstructure on the deformation behavior of Ti60 titanium alloy at high temperature processing. Journal of Alloys and Compounds, 2014, 617, 525-533.	2.8	48
113	Influence of melt temperature on the Invar effect in (Fe71.2B24Y4.8)96Nb4 bulk metallic glass. Journal of Materials Science, 2014, 49, 6900-6906.	1.7	9
114	Analysis of size effect on flow-induced defect in micro-scaled forming process. International Journal of Advanced Manufacturing Technology, 2014, 73, 1475-1484.	1.5	21
115	A hybrid model for analysis of ductile fracture in micro-scaled plastic deformation of multiphase alloys. International Journal of Plasticity, 2014, 61, 1-16.	4.1	67
116	Hot deformation behavior and hot working characteristic of Nickel-base electron beam weldments. Journal of Alloys and Compounds, 2014, 584, 494-502.	2.8	33
117	Geometry and grain size effects on the forming limit of sheet metals in micro-scaled plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 611, 345-353.	2.6	65
118	Evaluation of thermoplastic formability of Zr-based bulk metallic glasses and its correlation with characteristic temperature parameters. Journal of Alloys and Compounds, 2014, 602, 326-330.	2.8	11
119	Analysis and avoidance of flow-induced defects in meso-forming process: simulation and experiment. International Journal of Advanced Manufacturing Technology, 2013, 68, 1551-1564.	1.5	24
120	A review on the state-of-the-art microforming technologies. International Journal of Advanced Manufacturing Technology, 2013, 67, 2411-2437.	1.5	202
121	A method for prediction of unstable deformation in hot forging process by simulation. Transactions of Nonferrous Metals Society of China, 2013, 23, 3739-3747.	1.7	5
122	The influence of size effect on the ductile fracture in micro-scaled plastic deformation. International Journal of Plasticity, 2013, 41, 65-81.	4.1	110
123	Thin-walled Ti41.5Zr2.5Hf5Cu42.5Ni7.5Si1 bulk metallic glass tubes: Promising energy absorbers and lightweight structures. Journal of Alloys and Compounds, 2013, 546, 180-184.	2.8	4
124	Adaptive reproducing kernel particle method using gradient indicator for elasto-plastic deformation. Engineering Analysis With Boundary Elements, 2013, 37, 280-292.	2.0	13
125	Structural-gradient-materials produced by gradient temperature heat treatment for dual-property turbine disc. Journal of Alloys and Compounds, 2013, 557, 27-33.	2.8	22
126	High temperature deformation behavior and optimization of hot compression process parameters in TC11 titanium alloy with coarse lamellar original microstructure. Transactions of Nonferrous Metals Society of China, 2013, 23, 353-360.	1.7	20

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127	Microstructure evolution of copper strips with gradient temperature in electropulsing treatment. Journal of Alloys and Compounds, 2013, 581, 160-165.	2.8	21
128	Micro-scaled progressive forming of bulk micropart via directly using sheet metals. Materials & Design, 2013, 49, 774-783.	5.1	49
129	Analysis and comparison of the instability regimes in the processing maps generated using different instability criteria for Tiâ€“6.5Alâ€“3.5Moâ€“1.5Zrâ€“0.3Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 576, 259-266.	2.6	17
130	Fabrication of bulk ultrafine grained titanium alloy via equal channel angular pressing based thermomechanical treatment. Materials & Design, 2013, 46, 889-894.	5.1	26
131	Effect of electropulsing treatment on the microstructure and superelasticity of TiNi alloy. Applied Physics A: Materials Science and Processing, 2013, 111, 1195-1201.	1.1	18
132	Effect of electroplastic rolling on deformability and oxidation of NiTiNb shape memory alloy. Journal of Materials Processing Technology, 2013, 213, 30-35.	3.1	34
133	Experimental and simulation studies of micro blanking and deep drawing compound process using copper sheet. Journal of Materials Processing Technology, 2013, 213, 101-110.	3.1	92
134	Effect of electroplastic rolling on the ductility and superelasticity of TiNi shape memory alloy. Materials & Design, 2013, 44, 606-611.	5.1	42
135	Meso-scaled progressive forming of bulk cylindrical and flanged parts using sheet metal. Materials & Design, 2013, 43, 249-257.	5.1	42
136	Investigation on the inhomogeneous structure of metallic glasses based on the initial elastic deformation in nanoindentation. Intermetallics, 2012, 30, 65-71.	1.8	6
137	Properties, microstructure and texture evolution of cold rolled Cu strips under electropulsing treatment. Journal of Alloys and Compounds, 2012, 544, 203-208.	2.8	52
138	Characteristic free volume change of bulk metallic glasses. Journal of Applied Physics, 2012, 111, .	1.1	16
139	A constitutive model for modeling of the deformation behavior in microforming with a consideration of grain boundary strengthening. Computational Materials Science, 2012, 55, 85-94.	1.4	60
140	Investigation of the free volume change of Fe41Co7Cr15Mo14C15B6Y2 bulk metallic glass using the cyclic thermal dilatation test. Journal of Non-Crystalline Solids, 2012, 358, 2682-2686.	1.5	5
141	Experimental and simulation based study on micro-scaled sheet metal deformation behavior in microembossing process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 60-67.	2.6	53
142	Studies of the interactive effect of specimen and grain sizes on the plastic deformation behavior in microforming. International Journal of Advanced Manufacturing Technology, 2012, 62, 989-1000.	1.5	43
143	Flow behavior and hot workability of FGH4096 superalloys with different initial microstructures by using advanced processing maps. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 531, 91-97.	2.6	24
144	Experimental studies of the size effect affected microscale plastic deformation in micro upsetting process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 374-383.	2.6	65

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145	Recrystallization of the hot isostatic pressed nickel-base superalloy FGH4096. II: Characterization and application. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 101-106.	2.6	28
146	Hot deformation behavior of GH4169 superalloy associated with stick Î´ phase dissolution during isothermal compression process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 540, 164-173.	2.6	65
147	Experimental studies of plastic deformation behaviors in microheading process. Journal of Materials Processing Technology, 2012, 212, 1501-1512.	3.1	34
148	Characteristic free volumes of bulk metallic glasses: Measurement and their correlation with glass-forming ability. Journal of Applied Physics, 2011, 109, .	1.1	24
149	Influence of size effect on the springback of sheet metal foils in micro-bending. Computational Materials Science, 2011, 50, 2604-2614.	1.4	83
150	Recrystallization of the hot isostatic pressed nickel-base superalloy FGH4096: I. Microstructure and mechanism. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8065-8070.	2.6	49
151	Investigation on the structural characteristics of metallic glasses based on the first displacement excursion behavior in nanoindentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 196-201.	2.6	6
152	Hot deformation behavior of the post-cogging FGH4096 superalloy with fine equiaxed microstructure. Materials Characterization, 2011, 62, 887-893.	1.9	63
153	Geometry and grain size effects on the fracture behavior of sheet metal in micro-scale plastic deformation. Materials & Design, 2011, 32, 4738-4746.	5.1	196
154	Ductile fracture: Experiments and computations. International Journal of Plasticity, 2011, 27, 147-180.	4.1	426
155	Hot deformation behavior of Tiâ€“5.0Alâ€“2.40Snâ€“2.02Zrâ€“3.86Moâ€“3.91Cr alloy with an initial lamellar microstructure in the Î±+Î² phase field. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1812-1818.	2.6	41
156	Experimental studies and numerical modeling of the specimen and grain size effects on the flow stress of sheet metal in microforming. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7674-7683.	2.6	98
157	The size effect on micro deformation behaviour in micro-scale plastic deformation. Materials & Design, 2011, 32, 198-206.	5.1	134
158	Experimental and simulation study of deformation behavior in micro-compound extrusion process. Materials & Design, 2011, 32, 525-534.	5.1	52
159	Study of the dynamic recrystallization of Tiâ€“6.5Alâ€“3.5Moâ€“1.5Zrâ€“0.3Si alloy in Î²-forging process via Finite Element Method modeling and microstructure characterization. Materials & Design, 2011, 32, 1283-1291.	5.1	61
160	Study of size effect in micro-extrusion process of pure copper. Materials & Design, 2011, 32, 3772-3782.	5.1	94
161	Size effect on material surface deformation behavior in micro-forming process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4799-4806.	2.6	72
162	Port-based ontology modeling to support product conceptualization. Robotics and Computer-Integrated Manufacturing, 2011, 27, 646-656.	6.1	7

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