

Mohammad Habibi Parsa

List of Publications by Year in descending order

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1471
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyzing the accumulative roll bonding deformation zone behavior by FEM, upper bound, and experimental methods. <i>Journal of Manufacturing Processes</i> , 2022, 81, 328-345.	2.8	4
2	Microstructure Evolution during Controlled Rolling of an Nb-Ti Microalloyed Steel. <i>Steel Research International</i> , 2021, 92, 2000487.	1.0	3
3	A dislocation assisted self-consistent constitutive model for the high-temperature deformation of particulate metal-matrix composite. <i>Philosophical Magazine</i> , 2021, 101, 276-305.	0.7	6
4	Effects of hot rolling and homogenisation treatment on low alloy steel ingot. <i>Materials Science and Technology</i> , 2020, 36, 835-842.	0.8	7
5	Microstructure and mechanical properties variations of pure aluminum subjected to one pass of ECAP-Conform process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 747, 120-129.	2.6	21
6	Texture development during hot deformation of Al/Mg alloy reinforced with ceramic particles. <i>Journal of Alloys and Compounds</i> , 2019, 798, 267-272.	2.8	7
7	Analysis of Flow Behavior of an Nb-Ti Microalloyed Steel During Hot Deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 1604-1614.	1.1	10
8	The impact of Nb on dynamic microstructure evolution of an Nb-Ti microalloyed steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 723, 194-203.	2.6	18
9	Estimation of dislocations density and distribution of dislocations during ECAP-Conform process. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
10	Dynamic deformation response of Al-Mg and Al-Mg/B4C composite at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 645-654.	2.6	15
11	Microstructural investigation of Al-Mg/B4C composite deformed at elevated temperature. <i>Journal of Alloys and Compounds</i> , 2018, 763, 643-651.	2.8	17
12	Thickness change and springback of cold roll bonded aluminum/copper clad sheets in air bending process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 675-689.	1.5	8
13	Effect of Drawing Strain on Development of Martensitic Transformation and Mechanical Properties in AISI 304L Stainless Steel Wire. <i>Steel Research International</i> , 2017, 88, 1600423.	1.0	8
14	On the Stability of Reversely Formed Austenite and Related Mechanism of Transformation in an Fe-Ni-Mn Martensitic Steel Aided by Electron Backscattering Diffraction and Atom Probe Tomography. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5244-5257.	1.1	18
15	Toward Unraveling the Importance of Deformed Microstructure before TRIP Heat Treatment in Transformation-Induced Plasticity Steels. <i>Steel Research International</i> , 2017, 88, 1600275.	1.0	6
16	Deformation of Pure Aluminum Along the Groove Path of ECAP-Conform Process. <i>Advanced Engineering Materials</i> , 2016, 18, 319-323.	1.6	11
17	Modification of As-cast Al-Mg/B4C composite by addition of Zr. <i>Journal of Alloys and Compounds</i> , 2016, 685, 70-77.	2.8	18
18	Observation of pseudoelasticity in a cold rolled Fe-Ni-Mn martensitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 658, 86-90.	2.6	16

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19	Prevention of surface hot shortness, development of banded structure, and mechanical properties of hot rolled Cu-bearing steel. <i>Engineering Failure Analysis</i> , 2016, 68, 132-137.	1.8	23
20	Physically-based constitutive modeling of NiTi intermetallic compound during hot deformation. <i>Canadian Metallurgical Quarterly</i> , 2016, 55, 387-390.	0.4	4
21	A comprehensive approach for quantitative characterization and modeling of composite microstructures. <i>Applied Mathematical Modelling</i> , 2016, 40, 8826-8831.	2.2	6
22	Unraveling the Effect of Homogenization Treatment on Decomposition of Austenite and Mechanical Properties of Low-Alloyed TRIP Steel. <i>Steel Research International</i> , 2016, 87, 820-823.	1.0	13
23	On the Deformation Analysis during RCSR Process Aided by Finite Element Modeling and Digital Image Correlation. <i>Advanced Engineering Materials</i> , 2016, 18, 1434-1443.	1.6	5
24	Constitutive analysis of tensile deformation behavior for AA1100 aluminum subjected to multi-axial incremental forging and shearing. <i>Mechanics of Materials</i> , 2016, 94, 117-131.	1.7	16
25	Unraveling the Effect of Thermomechanical Treatment on the Dissolution of Delta Ferrite in Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 641-648.	1.1	12
26	Dynamic recrystallization kinetics in Mg-3Gd-1Zn magnesium alloy during hot deformation. <i>International Journal of Materials Research</i> , 2016, 107, 277-279.	0.1	21
27	Crystal Plasticity Analysis of Texture Evolution of Pure Aluminum During Processing by a New Severe Plastic Deformation Technique. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 941-948.	1.1	2
28	Microstructural evolution and grain growth kinetics of GZ31 magnesium alloy. <i>Materials Characterization</i> , 2016, 118, 584-592.	1.9	33
29	The effect of primary thermo-mechanical treatment on TRIP steel microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 402-406.	2.6	24
30	Microstructural and mechanical properties of AA1100 aluminum processed by multi-axial incremental forging and shearing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 705-716.	2.6	34
31	The Effect of Strain Rate on Ultra-fine Grained Structure of Cold Drawn 304L Stainless Steel Wires. , 2015, 11, 24-31.		0
32	Prediction of Proper Temperatures for the Hot Stamping Process Based on the Kinetics Models. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 572-585.	1.2	9
33	Enhanced Mechanical Properties of Microalloyed Austenitic Stainless Steel Produced by Martensite Treatment. <i>Advanced Engineering Materials</i> , 2015, 17, 1226-1233.	1.6	25
34	Hot compression behavior of GZ31 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2015, 631, 1-6.	2.8	54
35	Multi-Axial Incremental Forging and Shearing as a New Severe Plastic Deformation Processing Technique. <i>Advanced Engineering Materials</i> , 2015, 17, 1197-1207.	1.6	7
36	Nano/ultrafine grained austenitic stainless steel through the formation and reversion of deformation-induced martensite: Mechanisms, microstructures, mechanical properties, and TRIP effect. <i>Materials Characterization</i> , 2015, 103, 150-161.	1.9	113

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37	Mathematical modeling of energy transfer to sheet surface layers and optimization of roll bonding strength. <i>International Journal of Materials Research</i> , 2015, 106, 1250-1257.	0.1	1
38	Dependency of Deformation Behavior of Retained Austenite in TRIP Steels on Microstructural and Chemical Homogeneity. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 1272-1277.	1.5	6
39	Rate controlling mechanisms during hot deformation of Mg ³ Gd ¹ Zn magnesium alloy: Dislocation glide and climb, dynamic recrystallization, and mechanical twinning. <i>Materials & Design</i> , 2015, 68, 228-231.	5.1	97
40	Estimation of the kinetics of martensitic transformation in austenitic stainless steels by conventional and novel approaches. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 624, 256-260.	2.6	29
41	Simplified springback prediction in Al/PP/Al sandwich air bending. <i>Journal of Sandwich Structures and Materials</i> , 2015, 17, 217-237.	2.0	14
42	Development of pseudoelasticity in Fe ¹⁰ Ni ⁷ Mn (wt%) high strength martensitic steel by intercritical heat treatment and subsequent ageing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 621, 52-60.	2.6	16
43	Influence of Thermomechanical Parameters on the Hot Deformation Behavior of AA1070. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2014, 136, .	0.8	9
44	Al3105/polypropylene/Al3105 laminates springback in V-die bending. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 75, 849-860.	1.5	25
45	Investigation of Microstructural Uniformity During Isothermal Forging of Ti-6Al-4V. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 4411-4420.	1.2	7
46	Control of Superelastic Behavior of NiTi Wires Aided by Thermomechanical Treatment with Reference to Three-Point Bending. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1386-1391.	1.2	7
47	Determination of Proper Austenitization Temperatures for Hot Stamping of AISI 4140 Steel. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1138-1145.	1.2	9
48	Molecular dynamics simulation of stress field around edge dislocations in Aluminum. <i>Computational Materials Science</i> , 2014, 84, 83-96.	1.4	17
49	Prediction of Temperatures of Austenite Equilibrium Transformations in Steels During Thermomechanical Processing. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3710-3717.	1.2	1
50	Abnormal grain growth in AISI 304L stainless steel. <i>Materials Characterization</i> , 2014, 97, 11-17.	1.9	50
51	Hot deformation and dynamic recrystallization of NiTi intermetallic compound. <i>Journal of Alloys and Compounds</i> , 2014, 614, 56-59.	2.8	71
52	Microstructural Evolution During Normal/Abnormal Grain Growth in Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 5185-5193.	1.1	44
53	Estimating interface bonding strength in clad sheets based on tensile test results. <i>Materials & Design</i> , 2014, 64, 307-309.	5.1	16
54	Constitutive description of severely deformed metals based on dimensional analysis. <i>Materials Science and Technology</i> , 2014, 30, 719-724.	0.8	5

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55	Cladding of aluminum on AISI 304L stainless steel by cold roll bonding: Mechanism, microstructure, and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 613, 232-239.	2.6	105
56	Development of dynamic recrystallization maps based on the initial grain size. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 565, 90-95.	2.6	22
57	Hot deformation behavior of austenitic stainless steel for a wide range of initial grain size. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 569, 54-60.	2.6	80
58	A constitutive equation for hot deformation range of 304 stainless steel considering grain sizes. <i>Materials & Design</i> , 2013, 52, 412-421.	5.1	13
59	Forming Limit Diagram Determination of Al 3105 Sheets and Al 3105/Polypropylene/Al 3105 Sandwich Sheets Using Numerical Calculations and Experimental Investigations. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2013, 135, .	0.8	14
60	Investigating spring back phenomena in double curved sheet metals forming. <i>Materials & Design</i> , 2012, 41, 326-337.	5.1	26
61	Effects of initial grain size on hot deformation behavior of commercial pure aluminum. <i>Materials & Design</i> , 2012, 42, 478-485.	5.1	42
62	Microstructure and mechanical behavior of martensitic steel severely deformed by the novel technique of repetitive corrugation and straightening by rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 551, 32-39.	2.6	43
63	Constitutive equations for elevated temperature flow behavior of commercial purity aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 545, 61-67.	2.6	142
64	Experimental and Numerical Thermomechanical Analysis of Hybrid Friction Welding of Commercially Pure Copper Bars. <i>Materials and Manufacturing Processes</i> , 2011, 26, 694-702.	2.7	10
65	Effect of the thickness distribution and setting condition on springback in multi-layer sheet bending. <i>International Journal of Engineering, Science and Technology</i> , 2011, 3, .	0.3	14
66	Possibility of Expressing Anisotropic Yield Functions of Metals using the Invariants of Stress Tensor. , 2011, , .		0
67	Inhomogeneity of temperature distribution through thickness of the aluminium strip during hot rolling. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011, 225, 2938-2952.	1.1	3
68	Recrystallization behavior of ECAPed A356 alloy at semi-solid reheating temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 4113-4121.	2.6	34
69	An Analytical Modified Model of Clad Sheet Bonding by Cold Rolling Using Upper Bond Theorem. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 936-941.	1.2	7
70	An analysis to plastic deformation behavior of AZ31 alloys during accumulative roll bonding process. <i>Journal of Materials Science</i> , 2010, 45, 4494-4500.	1.7	16
71	Experimental and finite element study on the spring back of double curved aluminum/polypropylene/aluminum sandwich sheet. <i>Materials & Design</i> , 2010, 31, 4174-4183.	5.1	52
72	Simulation of cathodic protection potential distributions on oil well casings. <i>Journal of Petroleum Science and Engineering</i> , 2010, 72, 215-219.	2.1	31

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73	Experimental and Numerical Determination of Limiting Drawing Ratio of Al3105-Polypropylene-Al3105 Sandwich Sheets. Journal of Engineering Materials and Technology, Transactions of the ASME, 2010, 132, .	0.8	29
74	The Effect of Blank Thickness on the Shear Band Localization During Fine Blanking of 1045 Steel Plate. , 2010, , .		0
75	Static and Cyclic Load-Deflection Characteristics of NiTi Orthodontic Archwires Using Modified Bending Tests. Journal of Materials Engineering and Performance, 2009, 18, 793-796.	1.2	7
76	Finite element and experimental deformation analysis of NiTi alloy during rolling. International Journal of Material Forming, 2009, 2, 13-16.	0.9	1
77	FLD determination of AL 3105/Polypropylene/AL 3105 sandwich sheet using numerical calculation and experimental investigations. International Journal of Material Forming, 2009, 2, 407-410.	0.9	11
78	Flow-forming and flow formability simulation. International Journal of Advanced Manufacturing Technology, 2009, 42, 463-473.	1.5	55
79	Analysis of rupture instability in the hydromechanical deep drawing of cylindrical cups. International Journal of Advanced Manufacturing Technology, 2008, 39, 734-743.	1.5	14
80	Bending of Work Hardening Sheet Metals subjected to Tension. International Journal of Material Forming, 2008, 1, 173-176.	0.9	12
81	The Evolution of Strain during Equal Channel Angular Pressing. International Journal of Material Forming, 2008, 1, 93-96.	0.9	6
82	Experimental and numerical analyses of sheet hydroforming process for production of an automobile body part. Journal of Materials Processing Technology, 2008, 198, 381-390.	3.1	24
83	Evaluation of microstructure change and hot workability of high nickel high strength steel using wedge test. Journal of Materials Processing Technology, 2008, 199, 304-313.	3.1	4
84	Study The Effect Of Curvature On Spring Back Of Double Curved Steel Sheet Using New Method. AIP Conference Proceedings, 2007, , .	0.3	2
85	Optimization of initial blank shape predicted based on inverse finite element method. Finite Elements in Analysis and Design, 2007, 43, 218-233.	1.7	28
86	An Experimental and Numerical Study to Analysis and Design of Sheet Hydroforming Process for an Automobile Fender Shell. , 2006, , 865.		0
87	Finite element study of the energy dissipation and residual stresses in the closed elastic deformation path. International Journal for Numerical Methods in Engineering, 2006, 68, 1013-1030.	1.5	3
88	Simulation of windscreen bending using viscoplastic formulation. Journal of Materials Processing Technology, 2005, 170, 298-303.	3.1	15
89	Blank Shape Design Based on Inverse Finite Element Method Using Ideal Forming Theory and a Modified Kinematics Formulation. , 2004, , 255.		0
90	Comparison of Fine and Conventional Blanking Based on Ductile Fracture Criteria. , 2004, , 265.		2

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91	Improvement of initial blank shape for intricate products using slip line field. Journal of Materials Processing Technology, 2004, 145, 21-26.	3.1	19
92	Austenitisation kinetics of unalloyed and alloyed ductile iron. Materials Science and Technology, 2001, 17, 162-167.	0.8	8
93	Redrawing analysis of aluminum-stainless-steel laminated sheet using FEM simulations and experiments. International Journal of Mechanical Sciences, 2001, 43, 2331-2347.	3.6	52
94	Characteristic behavior of aluminum-stainless laminated sheet in redrawing. Metals and Materials International, 1998, 4, 444-448.	0.2	5
95	Consideration of direct and reverse redrawing of copper sheet by rigid-plastic finite element. Journal of Materials Processing Technology, 1997, 63, 661-665.	3.1	5
96	Consideration of the re-drawing of sheet metals based on finite-element simulation. Journal of Materials Processing Technology, 1994, 47, 87-101.	3.1	26
97	Increase in limiting drawing ratio by using partially thickened blanks. International Journal of Machine Tools and Manufacture, 1993, 33, 465-474.	6.2	1
98	Production of Tapered Cups by Sequential Deep Drawing of Sheet Metals Using Drawn Cups as a Part of Punch. Journal of Engineering for Industry, 1993, 115, 224-229.	0.8	3