

Shahin Khoddam

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

821
citations

471061

17
h-index

610482

24
g-index

65
all docs

65
docs citations

65
times ranked

560
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative studies on the corrosion properties of a Fe-Mn-Al-Si steel and an interstitial-free steel. Corrosion Science, 2008, 50, 2879-2884.	3.0	67
2	Axi-symmetric forward spiral extrusion, a kinematic and experimental study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1023-1029.	2.6	33
3	Latest Developments in Modeling and Characterization of Joining Metal Based Hybrid Materials. Advanced Engineering Materials, 2018, 20, 1800048.	1.6	32
4	Spiral extrusion of aluminum/copper composite for future manufacturing of hybrid rods: A study of bond strength and interfacial characteristics. Journal of Alloys and Compounds, 2013, 571, 85-92.	2.8	31
5	Aqueous corrosion performance of nanostructured bainitic steel. Materials & Design, 2014, 54, 67-71.	5.1	30
6	Effect of β precipitates on the cavitation behavior of wrought AZ31 magnesium alloy. Materials & Design, 2011, 32, 2181-2190.	5.1	29
7	Strength changes and bonded interface investigations in a spiral extruded aluminum/copper composite. Materials & Design, 2014, 57, 306-314.	5.1	27
8	Surface wrinkling of the twinning induced plasticity steel during the tensile and torsion tests. Materials & Design, 2014, 60, 146-152.	5.1	25
9	Upper-bound analysis of axi-symmetric forward spiral extrusion. Mechanics of Materials, 2011, 43, 684-692.	1.7	24
10	Conversion of the hot torsion test results into flow curve with multiple regimes of hardening. Journal of Materials Processing Technology, 2004, 153-154, 839-845.	3.1	23
11	Corrosion behavior of twinning-induced plasticity (TWIP) steel. Materials and Corrosion - Werkstoffe Und Korrosion, 2013, 64, 231-235.	0.8	23
12	Investigation of Dynamic and Static Recrystallization Behavior During Thermomechanical Processing in a API-X70 Microalloyed Steel. Journal of Materials Engineering and Performance, 2009, 18, 1029-1034.	1.2	22
13	Post processing of the hot torsion test results using a multi-dimensional modelling approach. Materials & Design, 2010, 31, 2578-2584.	5.1	22
14	Torsional and compressive behaviours of a hybrid material: Spiral fibre reinforced metal matrix composite. Materials and Design, 2015, 85, 404-411.	3.3	21
15	Numerical results achieved with an inverse computational method for determining the constitutive parameters using the hot torsion test results. Steel Research = Archiv für Das Eisenhüttenwesen, 1996, 67, 39-43.	0.2	18
16	The effects of rolling parameters on the mechanical behavior of 6061 aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 578, 90-95.	2.6	18
17	The effect of specimen geometry on the accuracy of the constitutive equation derived from the hot torsion test. Steel Research = Archiv für Das Eisenhüttenwesen, 1995, 66, 45-49.	0.2	17
18	A heuristic model selection scheme for representing hot flow data using the hot torsion test results. Materials & Design, 2010, 31, 2011-2017.	5.1	17

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19	Double-hit compression behavior of TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 233-238.	2.6	17
20	An inverse thermal-mechanical analysis of the hot torsion test for calibrating the constitutive parameters. <i>Materials & Design</i> , 2011, 32, 1903-1909.	5.1	17
21	Modified crack closure integral technique for extraction of SIFs in meshfree methods. <i>Finite Elements in Analysis and Design</i> , 2014, 78, 25-39.	1.7	17
22	Shear blanking test of a mechanically bonded aluminum/copper composite using experimental and numerical methods. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 623, 153-164.	2.6	15
23	Evaluation of barreling and friction in uniaxial compression test: A kinematic analysis. <i>International Journal of Mechanical Sciences</i> , 2019, 156, 486-493.	3.6	15
24	Inverse computational method for constitutive parameters obtained from torsion, plane-strain and axisymmetric compression tests. <i>Journal of Materials Processing Technology</i> , 1998, 83, 62-71.	3.1	14
25	An inverse computational method for determining the constitutive parameters using the hot torsion test results. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , 1996, 67, 22-25.	0.2	13
26	Microstructure and mechanical properties of IF steel deformed during plane stress local torsion. <i>Journal of Materials Science</i> , 2012, 47, 1582-1587.	1.7	12
27	Finite element analysis of plastic deformation in variable lead axisymmetric forward spiral extrusion. <i>Journal of Materials Science</i> , 2013, 48, 2454-2461.	1.7	12
28	A New Horizon for Barreling Compression Test: Exponential Profile Modeling. <i>Advanced Engineering Materials</i> , 2017, 19, 1700328.	1.6	12
29	A comparative numerical study of combined cold expansion and local torsion on fastener holes. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2012, 35, 918-928.	1.7	11
30	A new test to study the cyclic hardening behaviour of a range of high strength rail materials. <i>Wear</i> , 2014, 313, 43-52.	1.5	10
31	Advancing mechanics of Barrelling Compression Test. <i>Mechanics of Materials</i> , 2018, 122, 1-8.	1.7	10
32	A combined upper-bound and elastic-plastic finite element solution for a fastener hole subjected to internal torsion. <i>Archive of Applied Mechanics</i> , 2012, 82, 445-459.	1.2	9
33	A kinematics study of variable lead axisymmetric forward spiral extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 550, 167-175.	2.6	9
34	On calculation of preliminary design parameters for lenticular booms. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2007, 221, 377-384.	0.7	8
35	Twinning-assisted environmental cracking: A new fracture mechanism for the crash-resistant twinning-induced plasticity steels. <i>Scripta Materialia</i> , 2012, 67, 943-946.	2.6	8
36	Selective Dissolution of Retained Austenite in Nanostructured Bainitic Steels. <i>Advanced Engineering Materials</i> , 2014, 16, 442-444.	1.6	8

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37	A verified solution of friction factor in compression test based on its sample's shape changes. International Journal of Mechanical Sciences, 2021, 193, 106175.	3.6	8
38	A Method of Finding the Effective Length of the Specimen Used in the Hot Torsion Test and Recommendations on Geometry of the Test Specimen. Journal of Testing and Evaluation, 1998, 26, 157-167.	0.4	8
39	Stress Corrosion Cracking of Novel Steel for Automotive Applications. Procedia Engineering, 2011, 10, 3381-3386.	1.2	7
40	A study of plastic deformation during axisymmetric forward spiral extrusion and its subsequent mechanical property changes. Modelling and Simulation in Materials Science and Engineering, 2012, 20, 085005.	0.8	7
41	Multiple pass axi-symmetrical forward spiral extrusion of interstitial-free (IF) steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 579, 217-225.	2.6	7
42	The need to revise the current methods to measure and assess static recrystallization behavior. Mechanics of Materials, 2015, 89, 85-97.	1.7	7
43	Computational inverse analysis of static recrystallization kinetics. International Journal of Mechanical Sciences, 2015, 103, 97-103.	3.6	7
44	A simple model for material's strengthening under high pressure torsion. Materials and Design, 2016, 99, 335-340.	3.3	7
45	Deformation under combined compression and shear: a new kinematic solution. Journal of Materials Science, 2019, 54, 4754-4765.	1.7	7
46	A comprehensive method to identify the kinetics of static recrystallization using the hot torsion test results with an inverse solution. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 085010.	0.8	6
47	Hybrid metallic composite materials fabricated by sheathed powder compaction. Journal of Materials Science, 2016, 51, 3118-3124.	1.7	6
48	Thermal analysis of the hot torsion test taking into account radiation. Mechanics of Materials, 1996, 22, 1-9.	1.7	5
49	Variations of effective length of the hot torsion test specimen with deformation. Journal of Materials Processing Technology, 2006, 177, 465-468.	3.1	5
50	A power-based approach to assess the barrelling test's weak solution. International Journal of Mechanical Sciences, 2019, 161-162, 105033.	3.6	5
51	Influence of specimen geometry of hot torsion test on temperature distribution during reheating treatment of API-X70. Journal of Iron and Steel Research International, 2010, 17, 34-39.	1.4	4
52	Inner Architecture of Bonded Splats under Combined High Pressure and Shear. Advanced Engineering Materials, 2016, 18, 501-505.	1.6	4
53	A detailed model of high pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 683, 256-263.	2.6	4
54	State of the art methods to post-process mechanical test data to characterize the hot deformation behavior of metals. Advances in Mechanical Engineering, 2021, 13, 168781402110610.	0.8	4

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55	Critical Evaluation of Identified Flow Curves Using Homogeneous and Heterogeneous Solutions for Compression Test. <i>Experimental Mechanics</i> , 0, , 1.	1.1	4
56	Passive control and layout optimization of Mesbah small satellite. <i>Acta Astronautica</i> , 2003, 52, 757-763.	1.7	3
57	An experimental-finite element analysis of the plane stress local torsion. <i>Journal of Materials Science</i> , 2013, 48, 5579-5589.	1.7	3
58	Conversion of compression test data into flow curve, accounting for barrelling. <i>Computer Methods in Materials Science</i> , 2021, 21, .	0.2	3
59	Environment-Assisted Cracking of Twinning Induced Plasticity (TWIP) Steel: Role of pH and Twinning. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 1979-1995.	1.1	2
60	Finite Element Analysis of an Axi-Symmetric Forward Spiral Extrusion of Mg-1.75Mn Alloy. <i>Materials Science Forum</i> , 2011, 690, 173-176.	0.3	1
61	Numerical Modeling to Determine Test Conditions of Shear Blanking Test for a Hybrid Material. <i>Advanced Materials Research</i> , 2014, 1016, 125-129.	0.3	1
62	A computer-aided specimen design to induce shearing strain around a hole. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012, 226, 2837-2851.	1.1	0
63	Mechanical and Microstructural Characterization of Aluminum 6061 Processed by Plane Stress Local Torsion. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 507-514.	1.0	0