

Gabriela T Vincze

List of Publications by Citations

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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.

43
papers

1,366
citations

18
h-index

36
g-index

48
ext. papers

1,546
ext. citations

4
avg, IF

4.38
L-index

#	Paper	IF	Citations
43	An alternative to kinematic hardening in classical plasticity. <i>International Journal of Plasticity</i> , 2011 , 27, 1309-1327	7.6	275
42	Strain rate sensitivity of the commercial aluminum alloy AA5182-O. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 390, 334-343	5.3	216
41	Extension of homogeneous anisotropic hardening model to cross-loading with latent effects. <i>International Journal of Plasticity</i> , 2013 , 46, 130-142	7.6	144
40	Enhancements of homogenous anisotropic hardening model and application to mild and dual-phase steels. <i>International Journal of Plasticity</i> , 2014 , 58, 201-218	7.6	110
39	Mechanical behavior of Mg subjected to strain path changes: Experiments and modeling. <i>International Journal of Plasticity</i> , 2015 , 73, 171-183	7.6	76
38	A comparison of the mechanical behaviour of an AA1050 and a low carbon steel deformed upon strain reversal. <i>Acta Materialia</i> , 2005 , 53, 1005-1013	8.4	64
37	Modelling the plastic behaviour of metals under complex loading conditions. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2011 , 19, 035009	2	62
36	Strain hardening rate sensitivity and strain rate sensitivity in TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 629, 54-59	5.3	61
35	Mechanical behavior of low carbon steel subjected to strain path changes: Experiments and modeling. <i>Acta Materialia</i> , 2016 , 111, 305-314	8.4	46
34	Effect of solute distribution on the strain rate sensitivity of solid solutions. <i>Scripta Materialia</i> , 2006 , 54, 71-75	5.6	36
33	Modelling and sensitivity analysis of twist springback in deep drawing of dual-phase steel. <i>Materials and Design</i> , 2016 , 90, 204-217	8.1	28
32	Constitutive modeling for path-dependent behavior and its influence on twist springback. <i>International Journal of Plasticity</i> , 2017 , 93, 64-88	7.6	27
31	A dislocation-based hardening model incorporated into an anisotropic hardening approach. <i>Computational Materials Science</i> , 2013 , 79, 570-583	3.2	27
30	Experimental assessment of nonlinear elastic behaviour of dual-phase steels and application to springback prediction. <i>International Journal of Mechanical Sciences</i> , 2016 , 117, 1-15	5.5	25
29	Modelling of mandrel rotary draw bending for accurate twist springback prediction of an asymmetric thin-walled tube. <i>Journal of Materials Processing Technology</i> , 2015 , 216, 405-417	5.3	23
28	Experiments and Modeling of Low Carbon Steel Sheet Subjected to Double Strain Path Changes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 4475-4479	2.3	22
27	Effect of symmetric and asymmetric rolling on the mechanical properties of AA5182. <i>Materials and Design</i> , 2016 , 100, 151-156	8.1	19

26	Mechanical Behavior of Al-SiC Nanocomposites Produced by Ball Milling and Spark Plasma Sintering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 5259-5269	2.3	18
25	Interfacial Characteristics of Dissimilar Ti6Al4V/AA6060 Lap Joint by Pulsed Nd:YAG Laser Welding. <i>Metals</i> , 2019 , 9, 71	2.3	13
24	Twist springback characteristics of dual-phase steel sheet after non-axisymmetric deep drawing. <i>International Journal of Material Forming</i> , 2017 , 10, 267-278	2	9
23	Assessment of Metal Flow Balance in Multi-Output Porthole Hot Extrusion of AA6060 Thin-Walled Profile. <i>Metals</i> , 2018 , 8, 462	2.3	7
22	Control strategy of twist springback for aluminium alloy hybrid thin-walled tube under mandrel-rotary draw bending. <i>International Journal of Material Forming</i> , 2018 , 11, 311-323	2	6
21	Twist Springback of Asymmetric Thin-walled Tube in Mandrel Rotary Draw Bending Process. <i>Procedia Engineering</i> , 2014 , 81, 2177-2183		6
20	A Theoretical Study of the Effect of the Double Strain Path Change on the Forming Limits of Metal Sheet. <i>Key Engineering Materials</i> , 2013 , 554-557, 127-138	0.4	5
19	The Evaluation of Laser Weldability of the Third-Generation Advanced High Strength Steel. <i>Metals</i> , 2019 , 9, 1051	2.3	5
18	Deformation and microstructure-independent CottrellStokes ratio in commercial Al alloys. <i>International Journal of Plasticity</i> , 2011 , 27, 1045-1054	7.6	4
17	A Comparative Study Between Strain And Stress Based Forming Limit Analysis By Applying Several Phenomenological Yield Criteria. <i>AIP Conference Proceedings</i> , 2005 ,	0	4
16	Development of a Device Compatible with Universal Testing Machine to Perform Hole Expansion and Erichsen Cupping Tests. <i>Machines</i> , 2020 , 8, 2	2.9	4
15	Asymmetrical Rolling of Aluminum Alloys and Steels: A Review. <i>Metals</i> , 2020 , 10, 1126	2.3	4
14	Strain-path dependent hardening models with rigorously identical predictions under monotonic loading. <i>Mechanics Research Communications</i> , 2021 , 114, 103615	2.2	3
13	Scale dependence of the strain rate sensitivity of Twinning-Induced Plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 98-103	5.3	2
12	Modeling the Effect of Asymmetric Rolling on Mechanical Properties of AlMg Alloys. <i>Steel Research International</i> , 2015 , 86, 922-931	1.6	2
11	Plastic Instability in Complex Strain Paths Predicted by Advanced Constitutive Equations 2011 ,		2
10	Effect of Asymmetric Rolling on Plastic Anisotropy of Low Carbon Steels during Simple Shear Tests 2010 ,		2
9	Damage Analysis of Third-Generation Advanced High-Strength Steel Based on the GursonTvergaardNeedleman (GTN) Model. <i>Metals</i> , 2022 , 12, 214	2.3	2

8	A Short Review on the Finite Element Method for Asymmetric Rolling Processes. <i>Metals</i> , 2021 , 11, 762	2.3	2
7	The formability of twinning-induced plasticity steels predicted on the base of Marciniak-Kuczynski theory. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116496	5.3	2
6	Mechanical behaviour of TWIP steel under shear loading. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032111	0.3	1
5	Sheet Metal Forming Limit Predictions Based on Advanced Constitutive Equations. <i>International Journal of Material Forming</i> , 2010 , 3, 179-182	2	1
4	Role of die structures on metal flow balance in multi-output porthole extrusion of thin-walled profile. <i>Procedia Manufacturing</i> , 2018 , 15, 225-231	1.5	0
3	Prediction of springback after bending under tension. <i>International Journal of Material Forming</i> , 2022 , 15, 1	2	0
2	Experimental validation of numerical model for asymmetric deep drawing of DP780 steel sheet using digital image correlation. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032102	0.3	
1	Al-SiC Nanocomposites Produced by Ball Milling and Spark Plasma Sintering. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1513, 1		