

Vitoon Uthaisangasuk

List of Publications by Year in descending order

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68
papers

2,057
citations

257450

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all docs

68
docs citations

68
times ranked

1312
citing authors

#	ARTICLE	IF	CITATIONS
1	A geometrical parametric study of side door reinforced beams under lateral impact load. International Journal of Crashworthiness, 2022, 27, 1662-1677.	1.9	1
2	Microstructure and Mechanical Properties of Dual-Phase Steels by Combining Adjusted Initial Microstructures and Severe Plastic Deformation. Steel Research International, 2022, 93, 2100596.	1.8	1
3	Study of Effect of Varying Clearances on the Springback of Advanced High Strength Steel Sheets. Journal of Physics: Conference Series, 2022, 2175, 012008.	0.4	0
4	Investigations of fatigue crack propagation in ER8 railway wheel steel with varying microstructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142980.	5.6	8
5	Experimental investigations and FE modeling considering microstructural inhomogeneity of laser welded steel-aluminum joints. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	3.8	2
6	Kinetic Model of Isothermal Bainitic Transformation of Low Carbon Steels under Ausforming Conditions. , 2022, 1, 93-115.		1
7	Micromechanics Based Modeling of Effect of Sigma Phase on Mechanical and Failure Behavior of Duplex Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1293-1313.	2.2	9
8	Processing, microstructure adjustments, and mechanical properties of dual phase steels: A review. Materials Science and Technology, 2021, 37, 561-591.	1.6	12
9	Anisotropic fracture forming limit curve and its applications for sheet metal forming with complex strain paths of aluminum sheet. International Journal of Advanced Manufacturing Technology, 2021, 115, 3553-3577.	3.0	8
10	Experimental and numerical study of springback effect of advanced high strength steel in a V-shape bending. IOP Conference Series: Materials Science and Engineering, 2021, 1157, 012042.	0.6	1
11	Tensile properties of hypoeutectic Al-Ni alloys: Experiments and FE simulations. Journal of Alloys and Compounds, 2021, 889, 161664.	5.5	10
12	Effect of ausforming on microstructure and hardness characteristics of bainitic steel. Journal of Materials Research and Technology, 2020, 9, 13365-13374.	5.8	8
13	Analysis of forming limit behaviour of high strength steels under non-linear strain paths using a micromechanics damage modelling. International Journal of Mechanical Sciences, 2020, 183, 105828.	6.7	18
14	Micromechanics based modelling of fatigue crack initiation of high strength steel. International Journal of Fatigue, 2020, 139, 105762.	5.7	7
15	A review of recent progress in mechanical and corrosion properties of dual phase steels. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	3.8	44
16	Mechanical and fracture behavior of high strength steels under high strain rate deformation: Experiments and modelling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 779, 139125.	5.6	28
17	Anisotropic fracture forming limit curves of aluminum alloy AA5052-H32 sheet. AIP Conference Proceedings, 2020, , .	0.4	0
18	Characterization of Static Performance and Failure of Resistance Spot Welds of High-Strength and Press-Hardened Steels. Journal of Materials Engineering and Performance, 2019, 28, 2017-2028.	2.5	9

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19	Failure investigation of liquefied petroleum gas cylinder using FAD and XFEM. International Journal of Pressure Vessels and Piping, 2019, 171, 69-78.	2.6	7
20	Plastic deformation and fracture behavior of X65 pipeline steel: Experiments and modeling. Engineering Fracture Mechanics, 2018, 191, 82-101.	4.3	24
21	Investigation of damage initiation in high-strength dual-phase steels using cohesive zone model. International Journal of Damage Mechanics, 2018, 27, 409-438.	4.2	14
22	Formability Prediction for Tube Hydroforming of Stainless Steel 304 Using Damage Mechanics Model. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	18
23	Stress and strain based fracture forming limit curves for advanced high strength steel sheet. International Journal of Material Forming, 2018, 11, 643-661.	2.0	26
24	A microstructure based modelling of high strength steel sheet under stretch-bending. Journal of Physics: Conference Series, 2018, 1063, 012065.	0.4	1
25	Finite element based analysis of two-stage forming for advanced high strength steel part. Procedia Manufacturing, 2018, 15, 668-675.	1.9	1
26	Microstructure based modeling of deformation and failure of spot-welded advanced high strength steels sheets. Materials and Design, 2018, 160, 731-751.	7.0	34
27	Finite element analysis of AHS steel under dynamic loading using a micromechanical modelling. Journal of Physics: Conference Series, 2018, 1063, 012109.	0.4	0
28	Study of springback effect of AHS steels using a microstructure based modeling. International Journal of Mechanical Sciences, 2018, 135, 499-516.	6.7	22
29	Modeling of bake-hardening effect for fine grain bainite-aided dual phase steel. Materials and Design, 2017, 118, 314-329.	7.0	24
30	Prediction of Stress-Strain Curves of Metastable Austenitic Stainless Steel Considering Deformation-Induced Martensitic Transformation. Journal of Engineering Materials and Technology, Transactions of the ASME, 2017, 139, .	1.4	0
31	Effects of Bainitic Phase on Mechanical Properties of Bainite-Aided Multiphase Steels. Steel Research International, 2017, 88, 1700004.	1.8	4
32	Micromechanical modeling of anisotropic behavior of pipeline steel grade X65. Materials and Design, 2017, 127, 243-260.	7.0	17
33	Damage initiation and fracture loci for advanced high strength steel sheets taking into account anisotropic behaviour. Journal of Materials Processing Technology, 2017, 248, 218-235.	6.3	27
34	Effects of Isothermal Aging on Microstructure Evolution, Hardness and Wear Properties of Wrought Co-Cr-Mo Alloy. Journal of Materials Engineering and Performance, 2017, 26, 955-968.	2.5	10
35	Investigation of Hot Deformation Behavior of Duplex Stainless Steel Grade 2507. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 95-108.	2.2	35
36	Effect of Fine Grained Dual Phase Steel on Bake Hardening Properties. Steel Research International, 2017, 88, 1600150.	1.8	17

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37	Micromechanics-based modeling of stress-strain and fracture behavior of heat-treated boron steels for hot stamping process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 667, 61-76.	5.6	30
38	A hybrid method for prediction of damage initiation and fracture and its application to forming limit analysis of advanced high strength steel sheet. <i>Engineering Fracture Mechanics</i> , 2016, 166, 97-127.	4.3	15
39	Investigations on fracture curves in strain and stress space for advanced high strength steel forming. <i>Journal of Physics: Conference Series</i> , 2016, 734, 032066.	0.4	1
40	Description of microstructures and mechanical properties of boron alloy steel in hot stamping process. <i>Journal of Manufacturing Processes</i> , 2016, 21, 87-100.	5.9	25
41	Influences of Microstructure Characteristics on Forming Limit Behavior of Dual Phase Steels. <i>Steel Research International</i> , 2015, 86, 1594-1609.	1.8	11
42	Microstructure based flow stress modeling for quenched and tempered low alloy steel. <i>Materials and Design</i> , 2015, 82, 189-199.	7.0	31
43	A study of local deformation and damage of dual phase steel. <i>Materials & Design</i> , 2014, 64, 729-742.	5.1	60
44	Simplified identification of material parameters for Yoshida-Uemori kinematic hardening model. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
45	Microstructure based Description of Deformation Behavior of Dual Phase Steel Sheets. <i>Procedia Engineering</i> , 2014, 81, 1366-1371.	1.2	8
46	Effects of Anisotropic Yield Functions on Prediction of Forming Limit Diagram for AHS Steel. <i>Key Engineering Materials</i> , 2014, 622-623, 257-264.	0.4	0
47	Investigation of anisotropic plastic deformation of advanced high strength steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 592, 207-220.	5.6	19
48	Effect of hot working on microstructure evolution of as-cast Nickel Aluminum Bronze alloy. <i>Materials & Design</i> , 2014, 60, 233-243.	5.1	76
49	Modeling of flow behavior of Ti-6Al-4V alloy at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 599, 212-222.	5.6	56
50	Experimental and theoretical formability analysis using strain and stress based forming limit diagram for advanced high strength steels. <i>Materials & Design</i> , 2013, 51, 756-766.	5.1	147
51	Determination of Damage Criterion Using a Hybrid Analysis for Advanced High Strength Steel. <i>Advanced Materials Research</i> , 2013, 849, 200-206.	0.3	2
52	Springback prediction in sheet metal forming of high strength steels. <i>Materials & Design</i> , 2013, 50, 253-266.	5.1	71
53	Anisotropic Plastic Behavior of TRIP 780 Steel Sheet in Hole Expansion Test. <i>Key Engineering Materials</i> , 2012, 504-506, 89-94.	0.4	8
54	Microstructure based prediction of strain hardening behavior of dual phase steels. <i>Materials & Design</i> , 2012, 41, 370-379.	5.1	189

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55	A micromechanical damage simulation of dual phase steels using XFEM. Computational Materials Science, 2012, 54, 271-279.	3.0	125
56	Experimental and numerical investigation of springback effect for advanced high strength dual phase steel. Materials & Design, 2012, 39, 318-328.	5.1	62
57	A study of microcrack formation in multiphase steel using representative volume element and damage mechanics. Computational Materials Science, 2011, 50, 1225-1232.	3.0	43
58	Modelling of damage and failure in multiphase high strength DP and TRIP steels. Engineering Fracture Mechanics, 2011, 78, 469-486.	4.3	152
59	Characterisation of formability behaviour of multiphase steels by micromechanical modelling. International Journal of Fracture, 2009, 157, 55-69.	2.2	62
60	Stretch-flangeability characterisation of multiphase steel using a microstructure based failure modelling. Computational Materials Science, 2009, 45, 617-623.	3.0	71
61	Influence of Martensite Distribution on the Mechanical Properties of Dual Phase Steels: Experiments and Simulation. , 2009, 80, 582.		12
62	Micromechanical modelling of damage behaviour of multiphase steels. Computational Materials Science, 2008, 43, 27-35.	3.0	82
63	Experimental and numerical failure criterion for formability prediction in sheet metal forming. Computational Materials Science, 2008, 43, 43-50.	3.0	79
64	A Numerical and Experimental Investigation into Hot Stamping of Boron Alloyed Heat Treated Steels. Steel Research International, 2008, 79, 77-84.	1.8	85
65	Micromechanics-based modelling of properties and failure of multiphase steels. Computational Materials Science, 2007, 39, 17-22.	3.0	54
66	Stress based failure criterion for formability characterisation of metastable steels. Computational Materials Science, 2007, 39, 43-48.	3.0	22
67	Forming Limit Curves and Forming Limit Stress Curves for Advanced High Strength Steels. Materials Science Forum, 0, 773-774, 109-114.	0.3	5
68	Modelling of Mechanical Properties of Pearlitic Rail Steel. Key Engineering Materials, 0, 798, 3-8.	0.4	3