

# Sushanta Panda

## List of Publications by Citations

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57  
papers

1,044  
citations

20  
h-index

30  
g-index

59  
ext. papers

1,234  
ext. citations

3.2  
avg. IF

4.99  
L-index

#	Paper	IF	Citations
57	Nanoindentation and microstructure analysis of resistance spot welded dual phase steel. <i>Materials Letters</i> , <b>2010</b> , 64, 207-210	3.3	91
56	A study on heat affected zone softening in resistance spot welded dual phase steel by nanoindentation. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 1638-1647	4.3	80
55	Characterization of tensile properties of tailor welded IF steel sheets and their formability in stretch forming. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 183, 321-332	5.3	78
54	Microstructure and Mechanical Performance of Friction Stir Spot-Welded Aluminum-5754 Sheets. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 131-144	1.6	48
53	Limiting drawing ratio and deep drawing behavior of dual phase steel tailor welded blanks: FE simulation and experimental validation. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 217, 48-64	5.3	46
52	Characterization of Tensile Properties, Limiting Strains, and Deep Drawing Behavior of AA5754-H22 Sheet at Elevated Temperature. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 4267-4282	1.6	37
51	Microstructures, Forming Limit and Failure Analyses of Inconel 718 Sheets for Fabrication of Aerospace Components. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 1513-1530	1.6	36
50	Improvement in formability of tailor welded blanks by application of counter pressure in biaxial stretch forming. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 204, 70-79	5.3	36
49	Prediction of fracture and deep drawing behavior of solution treated Inconel-718 sheets: Numerical modeling and experimental validation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 733, 393-407	5.3	34
48	Mechanical properties, springback, and formability of W-temper and peak aged 7075 aluminum alloy sheets: Experiments and modeling. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 170, 105344	5.5	31
47	Failure strains of anisotropic thin sheet metals: Experimental evaluation and theoretical prediction. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 151, 356-374	5.5	31
46	Experimental Investigations on Formability of Aluminum Tailor Friction Stir Welded Blanks in Deep Drawing Process. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 1038-1049	1.6	30
45	Finite element analysis of effects of soft zones on formability of laser welded advanced high strength steels. <i>Science and Technology of Welding and Joining</i> , <b>2009</b> , 14, 52-61	3.7	28
44	Experimental and numerical studies on the forming behavior of tailor welded steel sheets in biaxial stretch forming. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 1365-1383		28
43	Effect of solution treatment on deep drawability of IN718 sheets: Experimental analysis and metallurgical characterization. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 727, 97-112	5.3	27
42	Investigations Into the Influence of Weld Zone on Formability of Fiber Laser-Welded Advanced High Strength Steel. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 1465-1479	1.6	27
41	Necking and fracture limit analyses of different pre-strained sheet materials in polar effective plastic strain locus using Yld2000-2d yield model. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 267, 289-307	5.3	27

40	Microstructures and failure analyses of DP980 laser welded blanks in formability context. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 652, 250-263	5.3	25
39	Formability assessment and failure prediction of laser welded dual phase steel blanks using anisotropic plastic properties. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 126, 203-221	5.5	21
38	Constitutive Behavior and Deep Drawability of Three Aluminum Alloys Under Different Temperatures and Deformation Speeds. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 3954-3969	1.6	21
37	Prediction of earing defect and deep drawing behavior of commercially pure titanium sheets using CPB06 anisotropy yield theory. <i>Journal of Manufacturing Processes</i> , <b>2018</b> , 33, 256-267	5	20
36	Implementation of Yld96 anisotropy plasticity theory for estimation of polar effective plastic strain based failure limit of pre-strained thin steels. <i>Thin-Walled Structures</i> , <b>2018</b> , 126, 26-37	4.7	17
35	Study of formability of tailor-welded blanks in plane-strain stretch forming. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2009</b> , 44, 675-685	3.2	17
34	Parameter optimization and texture evolution in single point incremental sheet forming process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2020</b> , 234, 126-139	2.4	17
33	Improvement in Material Flow During Nonisothermal Warm Deep Drawing of Nonheat Treatable Aluminum Alloy Sheets. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2017</b> , 139,	3.3	14
32	Formability and fracture in deep drawing sheet metals: Extended studies for pre-strained anisotropic thin sheets. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 170, 105346	5.5	14
31	Influence of SC-HAZ microstructure on the mechanical behavior of Si-TRIP steel welds. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 718, 216-227	5.3	12
30	Single point incremental forming of AA6061 thin sheet: calibration of ductile fracture models incorporating anisotropy and post forming analyses. <i>International Journal of Material Forming</i> , <b>2019</b> , 12, 623-642	2	12
29	Investigations into Improvement in Formability of AA5754 and AA6082 Sheets at Elevated Temperatures. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 2967-2982	1.6	11
28	Finite Element Validation of Forming Limit Diagram of IN-718 Sheet Metal. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, 2037-2045	1.4	11
27	Forming of serpentine micro-channels on SS304 and AA1050 ultra-thin metallic sheets using stamping technology. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 56, 1099-1113	5	10
26	A new method for joining metal and polymer sheets in sandwich panels for highly improved interface strength. <i>Composite Structures</i> , <b>2020</b> , 251, 112661	5.3	10
25	Microstructure, forming limit diagram, and strain distribution of pre-strained DP-IF steel tailor welded blank for auto body application. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 104, 1749-1767	3.2	8
24	Studies on texture and formability of Zircaloy-4 produced by pilgering route. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 2120-2129	5.5	8
23	Effect of Bending Strain in Forming Limit Strain and Stress of IN-718 Sheet Metal. <i>Materials Science Forum</i> , <b>2015</b> , 830-831, 238-241	0.4	8

22	Prediction of Formability of Bi-axial Pre-strained Dual Phase Steel Sheets Using Stress-Based Forming Limit Diagram. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , <b>2015</b> , 167-192	0.4	7
21	Formability Analysis of AA5754 Alloy at Warm Condition: Appraisal of Strain Rate Sensitive Index. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, 1996-2004	1.4	7
20	Effect of solution treatment on the formability and part performance of IN718 sheet material. <i>Advances in Materials and Processing Technologies</i> , <b>2018</b> , 4, 680-694	0.8	7
19	Implementation of YLD-96 Plasticity Theory in Formability Analysis of Bi-axial Pre-strained Steel Sheets. <i>Procedia Engineering</i> , <b>2017</b> , 173, 1085-1092		6
18	Warm redrawing of AA6082 sheets and investigations into the effect of aging heat treatment on cup wall strength. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 768, 138445	5.3	6
17	Mechanical Properties and Stretch Forming Behaviour of Electron Beam Welded Titanium Sheets of Grade-2 and Grade-5. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 908-916	1.4	6
16	Application of Barlat Yld-96 Yield Criterion for Predicting Formability of Pre-Strained Dual Phase Steel Sheets <b>2016</b> ,		5
15	Resistance spot-welding of AISI-1008 steel joints with MWCNT coating interlayer. <i>Materials and Manufacturing Processes</i> , <b>2021</b> , 36, 448-456	4.1	5
14	Effect of Orientation of Weld Line on Formability of Electron Beam-Welded Dissimilar Thickness Titanium Sheets. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 5913-5925	1.6	5
13	Experimental investigations on forming limit diagram of ultra thin SS 304 steel: effect of circular grid size, sheet orientation, punch size and deformation speed. <i>Advances in Materials and Processing Technologies</i> , <b>2019</b> , 5, 25-38	0.8	4
12	Microstructure and Mechanical Properties of Resistance-Spot-Welded AISI-1008 Steel Lap Joints Using Multiwalled Carbon Nanotubes as an Interlayer. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 3333-3341	1.6	3
11	Quasi-static crushing behavior of stretch formed domes of laser welded tailored blanks. <i>Thin-Walled Structures</i> , <b>2021</b> , 159, 107288	4.7	3
10	Effect of pre-cut hole diameter on deformation mechanics in multi-stage incremental hole flanging of deep drawing quality steel. <i>Archives of Civil and Mechanical Engineering</i> , <b>2021</b> , 21, 1	3.4	3
9	Influence of out-of-plane stretch forming induced different strain paths on micro-texture evolution, slip system activity and Taylor factor distribution in AlTi alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 830, 142267	5.3	2
8	Uniaxial tensile deformation behaviour of electron beam welded commercially pure titanium and Ti6Al4V joints: Experimental and metallurgical characterization. <i>Journal of Manufacturing Processes</i> , <b>2022</b> , 76, 444-456	5	2
7	2D nanomaterials in 3D/4D-printed biomedical devices. <i>Journal of Materials Research</i> , 1	2.5	1
6	Fabrication of longitudinal welded tube of aluminum alloy for structural application using friction stir welding process and its characterization. <i>Archives of Civil and Mechanical Engineering</i> , <b>2022</b> , 22, 1	3.4	1
5	Process Optimization and Characterization of Ultra-Thin Dissimilar Sheet Material Joints for Battery Applications Using Ultrasonic Welding. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	0

- 4 Experimental and numerical studies on the formability of AA5754 and AA6082 thin sheets in nonisothermal warm redrawing process. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*,146442072110423 1.3
- 3 Failure Prediction and Forming Behavior of AA5754 Sheets at Warm Temperature. *Lecture Notes on Multidisciplinary Industrial Engineering*, **2019**, 53-65 0.3
- 2 Nonisothermal Warm Deep Drawing Behavior of Automotive Grade Aluminum Alloy Sheets. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1132, 012006 0.4
- 1 Punch-less and die-less sheet hydroforming process for manufacturing of serpentine-shaped micro-channels in ultra-thin sheets. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*,095440622210956 1.3