

# Dulal Chandra Saha

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

607  
citations

840776

11  
h-index

794594

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

460  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure-properties correlation in fiber laser welding of dual-phase and HSLA steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 445-453.	5.6	79
2	Effects of tempering mode on the structural changes of martensite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 673, 467-475.	5.6	76
3	Microstructure and mechanical properties of fibre laser welded medium manganese TRIP steel. <i>Materials and Design</i> , 2017, 131, 450-459.	7.0	69
4	Fusion zone microstructure evolution of fiber laser welded press-hardened steels. <i>Scripta Materialia</i> , 2016, 121, 18-22.	5.2	63
5	Heat input, intermetallic compounds and mechanical properties of Al/steel cold metal transfer joints. <i>Journal of Materials Processing Technology</i> , 2019, 272, 40-46.	6.3	58
6	Heat-affected zone liquation crack on resistance spot welded TWIP steels. <i>Materials Characterization</i> , 2014, 93, 40-51.	4.4	53
7	Weldability Evaluation and Microstructure Analysis of Resistance Spot Welded High Mn Steel in Automotive Application. <i>Steel Research International</i> , 2012, 83, 352-357.	1.8	52
8	Metallographic and fracture characteristics of resistance spot welded TWIP steels. <i>Science and Technology of Welding and Joining</i> , 2013, 18, 711-720.	3.1	49
9	Coating behaviour and nugget formation during resistance welding of hot forming steels. <i>Science and Technology of Welding and Joining</i> , 2015, 20, 708-720.	3.1	28
10	Mechanism of Secondary Hardening in Rapid Tempering of Dual-Phase Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 6153-6162.	2.2	22
11	Martensite tempering kinetics: Effects of dislocation density and heating rates. <i>Materials Characterization</i> , 2020, 168, 110564.	4.4	21
12	Tensile and Fatigue Properties of Single and Multiple Dissimilar Welded Joints of DP980 and HSLA. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 783-791.	2.5	10
13	Influences of blocky retained austenite on the heat-affected zone softening of dual-phase steels. <i>Materials Letters</i> , 2020, 264, 127368.	2.6	8
14	A Review on Al-Al/Al-Steel Resistance Spot Welding Technologies for Light Weight Vehicles. <i>Journal of Welding and Joining</i> , 2011, 29, 35-40.	1.3	5
15	Concurrent photocatalytic degradation of organic contaminants and photocathodic protection of steel Ag/TiO <sub>2</sub> composites. <i>Materialia</i> , 2018, 3, 212-217.	2.7	4
16	Evolution of Transient Nature Nanoscale Softening During Martensite Tempering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 3772-3777.	2.2	4
17	Study the effect of milling parameters on HE-MA nanostructured Al <sub>6</sub> O <sub>6</sub> 1-graphene cermet feedstock particles. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157759.	5.5	3
18	A Phase Variation-Based Smart Structure for Crack Detection on Metals Using Cold Spray Additive Manufacturing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2023, 72, 1-10.	4.7	2

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19	Evaluation of Failure Mode and Strength on Baking Time of Adhesive for Hybrid Joining. Journal of Welding and Joining, 2011, 29, 49-55.	0.3	1
20	On the Measurability and Predictability of HAZ Softening in GMAW of Automotive DP980 Steel. Metals, 2022, 12, 1009.	2.3	0