## **LIST OF PUBLICATIONS**

## https://scholar.google.co.in/citations?hl=en&user=5CVg118AAAAJ

	1. International Journal Publications (SCI Indexed Journals)						
Sl	Author(s)	Title	Name of Journal	Vol.	Page	Year	Citation
16	Somanath	Design of	International Journal	134	1-26	2024	
	Mohanty	adhesion/cohesion fracture	of Adhesion and				
		resistant FRP composite	Adhesives				
	Rashmi	repair system for V-notched	[Q2]: 3.2				
	Ranjan Das	Al-6061-T6 Aircraft skin					
		https://doi.org/10.1016/j.ijadhad h.2024.103771					
15	Somanath	Influence of polymeric	Theoretical &	125	1-36	2023	
	Mohanty	resin-infilling on onset and	Applied Fracture				
		fracture growth along wing	Mechanics				
	Rashmi	trajectory in open-flawed	[Q1]: 4.374				
	Ranjan Das	sandstone specimen					
		https://doi.org/10.1016/j.tafmec.					
14	Novonivoti	2023.103836 Finite Element based	International Journal	120	1-14	2022	
14	Nayanjyoti		of Adhesion and	120	1-14	2022	
	Baishya	interfacial failure analysis of PVC and laminated FRP	Adhesives				
	Rashmi	composite pipe socket joints	[Q2]: 3.848				
	Ranjan Das	subjected to internal	[Q2]. 3.040				
	Ranjan Das	pressures					
		https://doi.org/10.1016/j.ijadha					
		dh.2022.103293					
13	Ranjan	Effect of using fibre	Composites: Part B	248	1-12	2022	
	Kumar	reinforced epoxy adhesive	[Q1]: 11.322				
	Behera	on the strength of the					
		adhesively bonded Single					
	Sambit	Lap Joints					
	Parida	https://doi.org/10.1016/j.co					
		mpositesb.2022.110358					
	Rashmi						
	Ranjan Das			4 - 1			
12	Somanath	Laminated FRP composite	Theoretical &	121	1-34	2022	
	Mohanty,	patch design for arresting	Applied Fracture				
		joint fractures	Mechanics				
	Rashmi	(Adhesion/cohesion) in	[Q1]: 4.374				
	Ranjan Das	resin-infilled centrally					
		inclined V-notched Al-					
		6061-T6 plate					
		https://doi.org/10.1016/j.taf					
11	Umash	<u>mec.2022.103491</u>	Lournal of the	11	1.20	2022	
<b>1</b> 1.	Umesh	Fracture Analyses of	Journal of the	44	1-29	2022	

#### 1. International Journal Publications (SCI Indexed Journals)

	IZ DE			( )			
10	Kumar, RR Das	Bonded Tubular FRP Composite K-joints with Braces Subjected to Balanced Axial Load <u>https://doi.org/10.1007/s404</u> <u>30-022-03555-2</u>	Brazilian Society of Mechanical Sciences and Engineering [Q2]: 2.220	(6)	1 17	2021	
10.	Ranjan K Behera, S.K. Parida & R.R. Das	Effect of pre-embedded adhesion failures and surface ply delamination on the structural integrity of adhesively bonded single lap joints made with curved laminated FRP composite panels https://doi.org/10.1016/j.ijad hadh.2021.102887	International Journal of Adhesion and Adhesives [Q2]: 2.671	108	1-17	2021	
9.	Umesh Kumar, RR Das	Adhesion failure analyses of laminated FRP composite made bonded tubular T- joints with axially compressed brace <u>https://doi.org/10.1016/j.co</u> <u>mpstruct.2020.113386</u>	Composite Structures [Q1]: 5.138	258	1-19	2020	
8.	K. Bharti, L.A.K Swamidas, R.R. Das	A novel optimization approach for bonded tubular gap K-joints made of FRP composites <u>https://doi.org/10.1016/j.istr</u> <u>uc.2020.10.021</u>	Structures [ <b>Q2]: 1.839</b>	28	2135- 2145	2020	
7.	K. Bharti, L.A.K Swamidas, R.R. Das	Detailed investigation of adhesive fillet tubular T- joint of laminated FRP composite tube under axial compressive load <u>https://doi.org/10.1007/s40</u> <u>194-020-00908-0</u>	Welding in the World [Q2]: 1.589	64	1279- 1292	2020	2
6.	RK Behera, SK Parida, RR Das	Effect of the aspect ratio of the pre-existing rectangular adhesion failure on the structural integrity of the adhesively bonded single lap joint <u>https://doi.org/10.1080/0169</u> <u>4243.2019.1629731</u>	Journal of Adhesion Science and Technology [Q3]: 1.365	33(1 9)	2093- 2111	2019	4
5.	RK Behera, SK Parida,	Three-dimensional adhesion failure analysis of the single	The Journal of Strain Analysis for	54(5 -6)	293- 309	2019	4

		lon ioint barrier					
	RR Das	lap joint having pre-	Engineering Design				
		embedded circular defects	[Q2]: 1.630				
		https://doi.org/10.1177/0309					
		<u>324719867002</u>					
4.	N.J.	Failure analysis of	Journal of Adhesion	31(1	2139-	2017	7
	Baishya,	adhesively bonded tubular	Science and	9-	2163		
	R.R.Das,	joints of laminated FRP	Technology	20)			
	S.K.	composites subjected to	[Q3]: 1.365				
	Panigrahi	combined internal pressure					
	U	and torsional loading					
		https://doi.org/10.1080/0169					
		4243.2017.1307498					
3.	R.R. Das, B.	Delamination damage	International Journal	23	772-	2014	17
	Pradhan	analysis of laminated	of Damage	(6)	790		
		bonded tubular single lap	Mechanics				
		joint made of FRP	[Q1]: 3.125				
		composite					
		https://doi.org/10.1177/1056					
		789513513199					
2.	R.R. Das, B.	Finite element based design	Journal of Adhesion	25	41-67	2011	22
	Pradhan	and adhesion failure	Science and				
		analyses of bonded tubular	Technology				
		socket joints made with	[Q3]: 1.365				
		laminated FRP composites					
		https://doi.org/10.1163/0169					
		42410X508073					
1.	R.R. Das, B.	Adhesion failure analyses of	International Journal	30	425-	2010	44
	Pradhan	bonded tubular single lap	of Adhesion and	(6)	438		
		joints in laminated FRP	Adhesives				
		composites	[Q2]: 2.671				
		https://doi.org/10.1016/j.ijad					
		hadh.2010.02.008					
				1	1		

## 2. International Journal Publications (SCOPUS Indexed Journals)

Sl	Author(s)	Title	Name of Journal	Vol.	Page	Year	Citn
7.	RK Behera,	3-D interfacial stress	Materials Today	26 (2)	1948-	2020	
	SK Parida,	analysis of adhesively	Proceedings		1952		
	RR Das	bonded curved laminated	[SCOPUS]				
		FRP composite single lap					
		joint					
		https://doi.org/10.1016/j.mat					
		pr.2020.02.426					
6.	S.K.	Study and Analysis of	Reviews of	4 (14)	152-165	2016	2
	Panigrahi	Damages in Functionally	Adhesion and				
	R. R. Das	Graded Adhesively Bonded	Adhesives				

		Joints of Laminated FRP Composites: A critical	[SCOPUS]				
		Review https://doi.org/10.1002/9781 119526445.ch5					
5.	R.R. Das N. J. Baishya V. Ranjan	Analysis of bonded tubular single lap joints subjected to varying pressure at a constant torsion	Journal of Mines, Metals and Fuels [SCOPUS]	64 (5,6)	208-213	2016	
4.	R.R. Das A. Singla A. Srivastava	Thermo-mechanical interlaminar stress and dynamic stability analysis of composite spherical shells <u>https://doi.org/10.1016/j.pro</u> <u>eng.2016.05.058</u>	Proceedia Engineering [SCOPUS]	144	1060- 1066	2016	4
3.	R.R. Das A. Singla	Dynamic Stability and Interlaminar Stress Analysis of Cylindrical Shells Subjected to Elevated Thermal Field https://doi.org/10.1016/j.pro eng.2016.05.157	Proceedia Engineering [SCOPUS]	144	468-473	2016	
2.	R.R. Das N.J. Baishya	Failure analysis of bonded composite pipe joints subjected to internal pressure and axial loading https://doi.org/10.1016/j.pro eng.2016.05.055	Proceedia Engineering [SCOPUS]	144	1047- 1054	2016	12
1.	R.R. Das, N.J. Baishya	Fluid-Structure Interaction based Adhesion Failure analysis of Bonded Tubular Socket joints <u>https://doi.org/10.1016/j.pro</u> <u>eng.2016.05.113</u>	Proceedia Engineering [SCOPUS]	144	1260- 1269	2016	

# 3. Books chapters:

SL	Author	Chapter Title/Book Name/DOI	Volume,	Page,	Year
			publisher		
3	R.R. Das	Failure Analysis of Structural Adhesive Joints	205-219		2020
		with Functionally Graded Tubular Adherends	Willey	online	
		Structural Adhesive Joints: Design, Analysis	library		
		and Testing			
		https://doi.org/10.1002/9781119737322.ch7			
2	RK Behera,	Three-dimensional FE Model for Stress	523-532		2020

	SK Parida,	Analysis of Adhesively Bonded Single Lap	Springer	
	RR Das	Joints with Hard Steel Adherend		
		Advances in Mechanical Processing and		
		Design		
		https://doi.org/10.1007/978-981-15-7779-6_47		
1	S.K.	Functionally Graded Adhesively Bonded Joints	2; 147-159,;	2017
	Panigrahi.	of Laminated FRP Composites, Progresses in	Willey online	
	R.R. Das	Adhesions and Adhesives	library	
		Progress in Adhesion and Adhesives, II	-	
		10.1002/9781119407485.ch6		

# 4. International/National Conference Publications (2015-2018)

International/ National Conference	Title of the Seminars/Conferences	Venue (City, Country)	Title of Paper published/presented
International Conference	Eighth ISSS International Conference on Smart Materials, Structures & Systems. <b>Authors:</b> Dr R R Das and Umesh Kumar (Research Scholar)	IISc, Bangalore, India 2017	"FEM based delamination damage analysis of bonded FRP composite pipe joints"
International Conference	International Conference on Composite Materials and Structures- ICCMS 2017. <b>Authors:</b> Dr R R Das and Umesh Kumar (Research Scholar)	IIT, Hyderabad, India 2017	"Design of laminated FRP composite made damage tolerant pipelines for underground mining applications"
International Conference	International Conference on Composite Materials and Structures- ICCMS 2017 <b>Authors:</b> Dr R R Das and Kundan Bharti (Research Scholar)	IIT, Hyderabad, India 2017	"FEM based Design Optimization of a Mining Dragline Cluster"
International Conference	International Conference on Composite Materials and Structures- ICCMS 2017 <b>Authors:</b> Dr R R Das and Kumar Gourav (M. Tech)	IIT, Hyderabad, India 2017	"Analysis of Tubular FRP Composite Bonded Socket Joints With Functionally Graded Adhesive"
National Conference	Mining Equipments: New Technologies Challenges & Applications (MENTCA)- 2018 Authors: Dr R R Das and Ghulam Moin (B. Tech)	IIT(ISM), Dhanbad, India 2018	"Stress and failure Analysis of an Excavator bucket-A Review"
National Conference	Mining Equipments: New Technologies Challenges & Applications (MENTCA)- 2018	IIT(ISM), Dhanbad, India 2018	" Finite Element Analysis and optimization of Excavator boom-A Review ss and failure Analysis of an Excavator bucket-A Review"

	Authors: Dr R R Das and D.K. Barsaiyan (B.Tech)		
National Conference	Mining Equipments: New Technologies Challenges & Applications (MENTCA)- 2018 <b>Authors:</b> Dr R R Das and Aditya Kumar (B.Tech)	IIT(ISM), Dhanbad, India 2018	" Finite Element Analysis based design and optimization of Excavator Arm-Review "
National Conference	Mining Equipments: New Technologies Challenges & Applications (MENTCA)- 2018 Authors: Dr R R Das and Arijit Pradhan (B.Tech)	IIT(ISM), Dhanbad, India 2018	" Effect of lacing angle on stress concentration effects corresponding to cluster weld fillet of a BE 1370 Dragline"

#### 5. International Conference Publications (2006-2014)

**1.** R.R. and Pradhan, B., "Study of crack growth emanating from notches and holes," 51<sup>st</sup> Congress of ISTAM, Andhra University College of Engineering, Visakhapatnam, December 18-21, 2006.

**2.** Shah, N.H., Das, R.R. and Pradhan, B., "Onset and growth of delamination damage characteristics in adhesively bonded tubular joints in laminated FRP composites," *52nd Congress of ISTAM, BNMIT Bangalore*, December 14 -17, 2007. pp. 96-97.

**3**. Das, R.R. and Pradhan, B., "Mixed mode crack growth emanating from notches and holes," *52nd Congress of ISTAM, BNMIT Bangalore*, December 14 -17, 2007. pp. 95.

**4.** Das, R.R. and Pradhan, B., "Onset and growth of adhesion failure in laminated FRP composite tubular lap and socket joints," *53rd Congress of ISTAM, Osmania University, Hyderabad*, December 27 – 30, 2008.

**5.** Arunasri B., Das, R.R. and Pradhan, B., "Adhesion failure of bonded single lap joints in FGM plates," *54<sup>th</sup> Congress of ISTAM, Netaji Subhash Institute of Technology, New Delhi*, December 18-21, 2008. pp. 85.

**6**. Das, R.R. and Pradhan, B., "Initiation and propagation of delamination damages in adhesive bonded tubular socket joints in laminated FRP composites," *54<sup>th</sup> Congress of ISTAM, Netaji Subhash Institute of Technology, New Delhi*, December 18-21, 2008. pp. 85-86

7. Das, R.R. and Pradhan, B., "Initiation and propagation of delamination damages in adhesive bonded tubular lap joints in laminated FRP composites," 54<sup>th</sup> Congress of ISTAM, Netaji Subhash Institute of Technology, New Delhi, December 18-21, 2008. pp. 91-92.

**8.** Das, R.R. and Pradhan, B., "Onset and growth of adhesion failures in adhesively bonded tubular socket joints in laminated FRP composites," *14th National Conf. on Machines and Mechanisms, NIT Durgapur*, December 17-18, 2009. pp. 76-83. (**BEST STUDENT PAPER AWARD**).

**9**. Das, R.R. Tandon, H., and Bajpai, A., "FEM based analysis of bonded FRP composite made single lap joints subjected to tension, *National Conf. on Advances in Simulation and Optimization Techniques in Mechanical Engineering, KIIT-University, Bhubaneswar*, February 18-19, 2012. pp. 1-8.

**10**. Das, R.R. Bajpai, A., and Tandon, H., "stress analyses of bonded flat joints made with laminated FRP composites under transverse loading, *National Conf. on Advances in Simulation and Optimization Techniques in Mechanical Engineering, KIIT-University, Bhubaneswar*, February 18-19, 2012. pp. 1-8.

**11**. Das, R.R. Roy, A., and Bh. V. S. Sasank, "FEM based numerical analysis of adhesively bonded lap joints subjected to impact," *International Conf. on Mathematical Modelling and Applied Soft Computing, CIT-Coimbatore*, July 11-13, 2012.

**12**. Das, R.R. Raveen, A.R., Vishal, V., and Kujur, P.S., "FEM based numerical analysis of fractured isotropic and composite specimens," *International Conf. on Mathematical Modelling and Applied Soft Computing, CIT-Coimbatore*, July 11-13, 2012.

**13**. Das, R.R. and Pradhan, B., "Finite Element based Delamination damage analyses of laminated FRP composite made bonded tubular socket joint," *International Conference on Manufacturing Excellence, Amity University, New Delhi*, March 29-30, 2012.

**14**. Das, R.R. and Pradhan, B., "Stress analyses of bonded tubular single lap joints made with functionally graded materials using finite element method," *Third Asian Conference on Mechanics of Functional Materials and Structures, IIT Delhi, New Delhi*, December 5-8, 2012. pp. 453-456.

**15**. Das, R.R. and Pradhan, B., "Finite element method based stress analyses of bonded tubular socket joints made with functionally graded materials," *Fourth International Congress on Computational Mechanics and Simulation, IIT Hyderabad*, December 9-12, 2012.

**16**. Kumar, C., Thatoi, D.N., and Das, R.R., "Stress analyses of bonded joints subjected to elevated thermal field," *Indian Conference on Applied Mechanics (INCAM), IIT Madras, Chennai*, July 4-6, 2013.pp. 154-155.

**17**. Das, R.R., Chakraborty, A, Guchhait, A, and Shingla, A., "Onset and growth of cracks effecting dynamic stability of laminated cylindrical shells," *Fifth International Congress on Computational Mechanics and Simulation, CSIR Hyderabad*, December 10-13, 2014. pp. 1047-1056. ISBN:978-981-09-1139-3

**18**. Das, R.R., and Nayak, G.B., "Fracture analysis of laminated spherical shells made with FRP composites," *Fifth International Congress on Computational Mechanics and Simulation, CSIR Hyderabad*, December 10-13, 2014. pp. 1962-1971. DOI:10.3850/978-981-09-1139-3\_300



## **GRAPHICAL ABSTARCT OF FEW RECENT RESEARCH WORKS**



