

(AUTONOMOUS)

KRISHNAGIRI- 635 104, TAMILNADU





FACULTY PROFILE

Name	Dr D.Thirumalaikumarasamy
Designation	Assistant Professor (Selection Grade)
Office Address	Department of Mechanical Engineering,
	Government College of Engineering,
	NH46, Bargur, Krishnagiri-635104.
	Tamil nadu,India
Telephone	04343 266 067
Mobile	9894319865, 7010527923
Email	tkumarasamy412@gmail.com, tkumarasamy412@yahoo.com
Field(s) of Specialization:	1. Surface Engineering
	2. Optimization Techniques
	3. Corrosion Engineering
	4.Coatings Technology

Employment Profile

Job Title	Employer	From	То
Assistant Professor	Annamalai University	15.12.2006	15.05.2017
Assistant Professor	Government College	16.05.2017	Till date
(SG)	of Engineering,		
	Bargur		

Academic Qualifications (From Highest Degree to High School):

Examination	Board	Year	Division/ Grade	Subjects
	/University			
PhD	Annamalai	2015	-	Manufacturing
	University			Engineering
ME	Annamalai	2003	First Class	Manufacturing
	University			Engineering
BE	Manonmanium	2000	First Class	Mechanical
	Sundaranar			Engineering
	University			



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Academic/Administrative Responsibilities within the Institution

Position	Faculty/Department/Centre/Institution	From	То
Question Paper	Government College of Engineering,	2017	Till date
Setter	Bargur		
Laboratory	Government College of Engineering,	2017	Till date
Incharge	Bargur		
(Metrology and			
Measurement Lab,			
Workshop Practice			
Lab)			
Principal	DST-SERB, DRDO and AICTE-	2019	Till date
Investigator	MODROB Research Projects		
Programme	AICTE, ISTE and TEQIP III	2017	Till date
Coordinator	Sponsored National Conferences,		
	Faculty Development and Student		
	Training Programmes		

Academic/Administrative Responsibilities outside the Institution

Position	Faculty/Department/Centre/Institution	From	To
Question Paper	Noorul Islam University, Sri Indu	2017	Till date
Setter	College of Engineering &		
	Technology, Telangana, Kongunadu		
	College of Engineering and		
	Technology, Government College of		
	Engineering, Bargur		
Practical	Pondicherry University, Noorul Islam	2015	Till date
Examiner	University and Mahendra		
	Engineering College, Namakkal		
Anna University	Anna University Affiliated Colleges	2017	Till date
Represetative			
Research	Anna University	2017	Till date
Supervisor			
Editorial Board	International Journal of Bio Sciences	2017	Till date
Member	& Engineering (IJBSE)		
Reviewer	International Journal of American	2006	Till date
	Ceramic Society, International		
	Journal of Saudi Chemical Society,		
	Alexandria Engineering Journal,		
	Plasma Science and Technology, Anti		



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Corrosion Methods and Materials,	
Indian Journal of Chemical	
Technology and Journal of Corrosion	
Science	

Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2020	Team Mentor	India International Science
		Festival 2020
2019	Best Paper Award	Government College of
		Engineering, Bargur
2015	Registrar P.Viswanatha Iyer	Annamalai University
	Award' for Best Ph.D thesis in	
	Manufacturing Engineering"	
	in Annamalai University	
	(instituted in 2015)	
2011	Certificate of Appreciationin	Annamalai University
	recognition of the services	
	rendered during the flood	
	relief activities in cuddalore	
	district during November and	
	December 2011	

Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

Details of Academic Work (Theory courses and Labs handled)

UG Level: Engineering Metallurgy, Material Science, Metal Joining Process, Composite

Materials, Operation Research, Statistical Quality Control, Newer Manufacturing

Techniques, Tribology, Engineering Mechanics

PG Level: NanoTribology, Corrosion Engineering,

Laboratory Metrology and Measurements Lab, Workshop Practice Lab , Engineering Practice



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Subjects: (UG & PG)

Lab, Programming Lab, Modeling and SimulationLab, ProductionLab

:

Details of Major R&D Projects

Title of Project	Funding Agency	Dur	ration	Status
		From	То	Ongoing/
				Completed
Performance	DST-SERB,	2019	2022	Ongoing
Evaluation of Cold	New Delhi			
Spray Deposition				
for Metal Matrix				
Composite				
Coatings on				
AZ31B Magnesium				
Alloy by Friction				
Stir Processing				
Effect of Pore Size,	DRDO-	2019	2022	Ongoing
Shape and	ER&IPR, New			
Distribution on the	Delhi			
Performance of				
Lanthanum				
Zirconate Coatings				
Modernization of	AICTE-	2019	2022	Ongoing
Metrology and	MODROB			
Measurement				
Laboratory				
Refresher/Induction	AICTE-ISTE,	2020	2021	Completed
Programme on	New Delhi			
"Outcome based				
Education				
STTP on Hands on	AICTE,	2020	2021	Completed
Training on	New Delhi			
MATLAB and				
Advanced				
Optimization				
Techniques				



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Number of PhDs guided: 07

Name of the PhD	Title of PhD Thesis	Role(Supervisor/ Co-	Year of Award
Scholar		Supervisor)	
K.Arunkumar	Erosion Corrosion	Supervisor	-
	Resistant Coatings		
M.Mathivannan	Corrosion Performance	Supervisor	2022
	of Stellite Coatings on		
	AZ91D Magnesium		
	Alloy		
S.Deepak	Rheological properties	Supervisor	-
	of Shear Thickening		
	Fluids for Soft Armour		
	Applications.		
M.Mathanbabu	Thermal Barrier	Supervisor	-
	Coatings and its		
	Performance		
	Investigation		
R.Pradeep raj	Novel Erosion	Supervisor	-
	Resistant		
	Coatings		
M.Ashok kumar	Cold Spray	Supervisor	-
	Metal Matrix		
	Composite		
	Coatings		
L.Govind Sanjiv	Thermal Spray	Supervisor	-
Madan	Cermet		
	Coatings		

Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date	Title of	Level of	Role	Event Organized	Venue
	Activity	Event	(Participant	by	
	-	(Internationa	/ Speaker/	-	
		1/ National/	Chairperso		
		Local)	n, Paper		
			presenter,		
			Any other)		
December	Comprehensi	International	Paper	Young Scientist	Kolkatta
22-24,	ve review of		presenter	Conference	



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	T -	ı	1	T	Г
2020	thermal spray			(online) organized	
	coating			by Ministry of	
	methods and			Science and	
	its novel			Technology,	
	applications			Ministry of Earth	
				Sciences, Ministry	
				of Health and	
				Family Welfare,	
				Government of	
				india	
December	Sensitivity	International	Paper	Young Scientist	Kolkatta
22-24,	analysis of		presenter	Conference	
2020	HVOF			(online) organized	
	process			by Ministry of	
	inputs to			Science and	
	predict the			Technology,	
	porosity and			Ministry of Earth	
	hardness of			Sciences, Ministry	
	WC-Co-Cr			of Health and	
	coatings			Family Welfare,	
	8			Government of	
				india	
December	A study on	International	Paper	Young Scientist	Kolkatta
22-24,	future gas		presenter	Conference	
2020	turbine		I	(online) organized	
	applications			by Ministry of	
	of			Science and	
	Lanthanum			Technology,	
	Zirconate			Ministry of Earth	
	based			Sciences, Ministry	
	thermal			of Health and	
	barrier			Family Welfare,	
	coatings			Government of	
	Counigs			india	
December	Experimenta	International	Paper	Young Scientist	Kolkatta
22-24,	l and	incommunication and	presenter	Conference	110mmm
2020	numerical		Probenier	(online) organized	
2020	modeling of			by Ministry of	
	erosion			Science and	
	corrosion			Technology,	
	analysis of			Ministry of Earth	
	HVOF				
	пуог			Sciences, Ministry	



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	1 117			CTT 1.1	
	sprayed WC-			of Health and	
	12Co			Family Welfare,	
	coatings			Government of	
				india	
December	Influence of	International	Paper	Young Scientist	Kolkatta
22-24,	angle of		presenter	Conference	
2020	impingement			(online) organized	
	, water jet			by Ministry of	
	velocity,			Science and	
	stand of			Technology,	
	distance and			Ministry of Earth	
	erodent			Sciences, Ministry	
	discharge of			of Health and	
	erosion			Family Welfare,	
	performance			Government of	
	of HVOF			india	
	sprayed				
	Cr ₃ C ₂ -NiCr				
	coatings				
05 th -07 th	Development	International	Paper	ASM International	Chennai Trade
March	of empirical		presenter	Chennai Chapter	Centre,
2020	relationship		r		Chennai
	to predict				
	porosity and				
	micro				
	hardness of				
	cold sprayed				
	metal matrix				
	composite				
	coatings on				
	AZ31B				
	magnesium				
	alloy				
05 th -07 th	Optimizing	International	Paper	ASM International	Chennai Trade
March	cold spray	memanonal	presenter	Chennai Chapter	Centre,
2020	process		presenter	Chemiai Chapter	Chennai
2020	parameter to				Chemiai
	attain				
	minimum				
	porosity and				
	maximum				
	hardness in				



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conminue					
	metal matrix				
	composite				
	coatings on				
	AZ31B				
	magnesium				
	alloy by				
	response				
	surface				
	methodology				
05 th -07 th	Electrochemi	International	Paper	ASM International	Chennai Trade
March	cal corrosion		presenter	Chennai Chapter	Centre,
2020	performance			•	Chennai
	of plasma				
	sprayed				
	titania				
	coatings on				
	magnesium				
	alloy under				
	sodium				
	chloride				
	environment				
05 th -07 th	Effect of dry	International	Paper	ASM International	Chennai Trade
March	sliding wear		presenter	Chennai Chapter	Centre,
2020	test parameter		1	1	Chennai
	on wear				
	behaviour				
	and wear				
	mechanism of				
	plasma				
	sprayed				
	satellite				
	coatings on				
	AZ91D				
	magnesium				
	alloy.				
05 th -07 th	CFD based	International	Paper	ASM International	Chennai Trade
March	design and		presenter	Chennai Chapter	Centre,
2020	Analysis of			_	Chennai
	High				
1		İ	İ	İ	
	Velocity Oxy				
	Velocity Oxy Fuel sprayed				



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		1	1	1	
	carbide nickel				
	chromium				
	coatings				
15 th March 2020	Effect of Process inputs on Mechanical properties of HVOF sprayed Cr ₃ C ₂ /NiCr coatings on Stainless Steel	International	Paper presenter	Department of Electrical and Electronics Engineering	Arunai College of Engineering, Tiruvannamala i- 606603
15 th March 2020	RSM and FUZZY Logic Approaches for Predicting the Surface Roughness, Flank Wear, Built up Edge and Chip Packing Ratio during milling processor of Al-Si Composites	International	Paper presenter	Department of Electrical and Electronics Engineering	Arunai College of Engineering, Tiruvannamala i- 606603
05- 07 th Novem ber 2019	Some investigation on parameter selection, deposition mechanism and sprayability of cold spray coating on light alloy materials	International	Paper presenter	Young Scientist Conference (online) organized by Ministry of Science and Technology, Ministry of Earth Sciences, Ministry of Health and Family Welfare, Government of india	Biswa Bangla convention centre Kolkata
05 th - 07 th Novem ber 2019	Improved corrosion performance of AZ31B	International	Paper presenter	Young Scientist Conference (online) organized	Biswa Bangla convention centre Kolkata



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	magnesium alloy through refinement and homogenizati on of surface microstructur e by friction stir processing			by Ministry of Science and Technology, Ministry of Earth Sciences, Ministry of Health and Family Welfare, Government of india	
05 th - 07 th Novem ber 2019	Influence of atmospheric plasma spray parameters on the porosity and corrosion resistance of stellite coatings on AZ91D magnesium alloy	International	Paper presenter	Young Scientist Conference (online) organized by Ministry of Science and Technology, Ministry of Earth Sciences, Ministry of Health and Family Welfare, Government of india	Biswa Bangla Convention Centre, Kolkata
05 th - 07 th Novem ber 2019	On the key role of hvof process parameters on the properties of Cr ₃ C ₂ -NiCr coatings for erosion-corrosion applications	International	Paper presenter	Young Scientist Conference (online) organized by Ministry of Science and Technology, Ministry of Earth Sciences, Ministry of Health and Family Welfare, Government of india	Biswa Bangla Convention Centre, Kolkata
15 th -17 th March 2018	Process Parameters effect of Porosity level of High Velocity Oxy Fuel Sprayed	International	Paper presenter	Department of Analytical Chemistry	University of Madras, Chennai
8-9th	Cr ₃ C ₂ /NiCr Coatings Influence of	International	Paper	Department of	Karpagam







March	High		presenter	Mechanical	University,
2018	Velocity Oxy			Engineering	Coimbatore
	Fuel spray			8 44 8	
	parameters on				
	microhardnes				
	s of				
	Cr ₃ C ₂ /NiCr				
	coatings on				
	stainless steel				
28 Feb-02 nd	Influence of	International	Paper	National	Chennai
March	pH, chloride		presenter	Association of	
	ion		presenter		
2013	concentration			Corrosion	
	and exposure			Engineers	
	time on the			(NACE) and	
	electrochemic			International	
	al corrosion			Gateway India	
	11ehavior of			Section (NIGIS)	
	atmospheric			Section (MOIS)	
	plasma				
	sprayed				
	alumina				
	coatings on				
	AZ31B				
	magnesium				
	alloy in NaCl				
	solutions				
19 th -21 st	Developing	International	Paper	IWS,	Trichirappalli
	an empirical	International	-	,	Titeimappam
January	relationship		presenter	Trichirappalli	
2012	to predict				
	corrosion rate				
	of plasma				
	sprayed				
	alumina				
	coated				
	AZ31B				
	magnesium				
	alloy under				
	immersion				
	environments				
22 nd -23 rd	Optimization	International	Paper	Coimbatore	CODISSIA
_	of	michianonal	-	Institute of	TRADE FAIR
January	atmospheric		presenter		
2011	plasma			Technology (CIT)	COMPLEX,
	spraying			& Indian Welding	Coimbatore.
	parameters to			Society, Trichirapp	
	minimize			alli	
	HIIIIIIIZE			*****	



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19 th -21 st	corrosion rate in plasma sprayed alumina coated AZ31B magnesium alloy Enhancing	International	Donor	Indian Walding	Trichiroppelli
2012	the corrosion resistance of AZ31B magnesium alloy by plasma sprayed ceramic coating		Paper presenter	Indian Welding Society, Trichirappalli	Trichirappalli
29 th -30 th November 2018	Optimization of plasma spray ceramic coatings via response surface methodology approach	National	Paper presenter	TEQIP III Sponsored National Conference on Recent Advances in Mechanical Science and Technology(RAM SAT18)	Department of Mechanical Engineering, Government College of Engineering, Bargur
29 th -30 th November 2018	A comparative study to evaluate the corrosion performance of friction stir welded AZ31B magnesium alloy under immersion, salt fog, pitting and galvanic corrosion tests under Nacl environment	National	Paper presenter	TEQIP III Sponsored National Conference on Recent Advances in Mechanical Science and Technology(RAM SAT18)	Department of Mechanical Engineering, Government College of Engineering, Bargur
29 th -30 th	Influence of	National	Paper	TEQIP III	Department of



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November	laser		presenter	Sponsored	Mechanical
2018	remelting		1	National	Engineering,
	parameters on			Conference on	Government
	hardness of stainless steel			Recent Advances	College of
	surface			in Mechanical	Engineering,
	Surface			Science and	Bargur
				Technology(RAM	U
				SAT18)	
29 th -30 th	Application	National	Paper	TEQIP III	Department of
November	of soft		presenter	Sponsored	Mechanical
2018	computing		P	National	Engineering,
	techniques to			Conference on	Government
	optimize the			Recent Advances	College of
	friction stir welded			in Mechanical	Engineering,
	dissimilar			Science and	Bargur
	nonferrous			Technology(RAM	2 8
	alloys			SAT18)	
29 th -30 th	A	National	Paper	TEQIP III	Department of
November	comparative	1 (ational	presenter	Sponsored	Mechanical
2018	study to		presenter	National	Engineering,
2010	evaluate the			Conference on	Government
	corrosion			Recent Advances	College of
	performance of friction stir			in Mechanical	Engineering,
	welded			Science and	Bargur
	AZ31B			Technology(RAM	Durgui
	magnesium			SAT18)	
	alloy under			5/1110)	
	immersion,				
	salt fog,				
	pitting and				
	galvanic corrosion				
	tests under				
	Nacl				
	environment				
29 th -30 th	Statistical	National	Paper	TEQIP III	Department of
November	optimization		presenter	Sponsored	Mechanical
2018	and		_	National	Engineering,
	sensitivity			Conference on	Government
	analysis of atmospheric			Recent Advances	College of
	plasma			in Mechanical	Engineering,
	spraying			Science and	Bargur
	parameters of			Technology(RAM	
	titania			63 \	



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	coatings on			SAT18)	
	AZ91D			5/110)	
	magnesium				
	Alloy				
	using Hooke				
	and Jeeves				
	algorithm				
29 th -30 th	Optimizing	National	Paper	TEQIP III	Department of
November	HVOF spray		presenter	Sponsored	Mechanical
2018	variables to		•	National	Engineering,
	achieve			Conference on	Government
	minimum			Recent Advances	College of
	porosity and			in Mechanical	Engineering,
	maximum			Science and	Bargur
	hardness in Cr ₃ C ₂ -NiCr			Technology(RAM	Dargui
	coatings			SAT18)	
29 th -30 th		NT 4' 1	D	/	D 4 C
	Electrochemi	National	Paper	TEQIP III	Department of
November	cal corrosion		presenter	Sponsored	Mechanical
2018	properties of thermal			National	Engineering,
	sprayed TiO ₂			Conference on	Government
	coatings on			Recent Advances	College of
	Aluminium			in Mechanical	Engineering,
	alloy under			Science and	Bargur
	NaČl			Technology(RAM	
	Solution			SAT18)	
29 th -30 th	Effect of	National	Paper	TEQIP III	Department of
November	process		presenter	Sponsored	Mechanical
2018	inputs on the		1	National	Engineering,
	mechanical			Conference on	Government
	properties of			Recent Advances	College of
	electrical			in Mechanical	Engineering,
	resistance spot welded			Science and	Bargur
	interstitial			Technology(RAM	Dargui
	free steel			•	
	joints			SAT18)	
29 th -30 th	Influence of	National	Paper	TEQIP III	Department of
November	tool shoulder		presenter	Sponsored	Mechanical
2018	diameters on		1	National	Engineering,
2010	tensile			Conference on	Government
	strength of			Recent Advances	College of
	friction stir			in Mechanical	Engineering,
	welded			Science and	
	aluminum				Bargur
	alloy joints			Technology(RAM	







				SAT18)	
29 th -30 th November 2018	Review of stress corrosion cracking of aluminum alloy	National	Paper presenter	TEQIP III Sponsored National Conference on Recent Advances in Mechanical Science and Technology(RAM SAT18)	Department of Mechanical Engineering, Government College of Engineering, Bargur
29 th -30 th November 2018	Optimization of HVOF sprayed Cr ₃ C ₂ -Nicr coatings using Design of Experiments	National	Paper presenter	TEQIP III Sponsored National Conference on Recent Advances in Mechanical Science and Technology(RAM SAT18)	Department of Mechanical Engineering, Government College of Engineering, Bargur
29 th -30 th November 2018	Future advancement s in thermal spray coatings and their real time industrial applications	National	Paper presenter	TEQIP III Sponsored National Conference on Recent Advances in Mechanical Science and Technology(RAM SAT18)	Department of Mechanical Engineering, Government College of Engineering, Bargur
29 th -30 th November 2018	Establishing an empirical relationship to predict corrosion rate of plasma sprayed TiO ₂ coated AZ91D magnesium alloy	National	Paper presenter	TEQIP III Sponsored National Conference on Recent Advances in Mechanical Science and Technology(RAM SAT18)	Department of Mechanical Engineering, Government College of Engineering, Bargur
29 th -30 th November 2018	Slurry erosion and electrochemic al corrosion properties of	National	Paper presenter	TEQIP III Sponsored National Conference on	Department of Mechanical Engineering, Government



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	IIIIOE		1	I 5	G 11 2
	HVOF			Recent Advances	College of
	sprayed			in Mechanical	Engineering,
	amorphous coating on			Science and	Bargur
	stainless steel			Technology(RAM	
	stanness steer			SAT18)	
29 th -30 th	Electrochemi	National	Paper	TEQIP III	Department of
November	cal corrosion		presenter	Sponsored	Mechanical
2018	properties of			National	Engineering,
	thermal			Conference on	Government
	sprayed TiO ₂			Recent Advances	College of
	coatings on			in Mechanical	Engineering,
	Aluminium			Science and	Bargur
	Alloy under			Technology(RAM	8
	Nacl solution			SAT18)	
29 th -30 th		National	Paper	TEQIP III	Department of
November		1 (acionai	presenter	Sponsored	Mechanical
2018	Review of		presenter	National	Engineering,
2010	electro			Conference on	Government
	chemical			Recent Advances	College of
	discharge			in Mechanical	Engineering,
	machining			Science and	Bargur
	process				Dargui
				Technology(RAM SAT18)	
19 – 21		National	Donor	National	Mohandas
Dec 2017		National	Paper	Conference on	College of
Dec 2017			presenter	Advances in	_
					Engineering and
				Bioenergy & Biomaterials and	
					Technology,
	Corrosion			Advances in	Kerala
	performances			Mechanical	
	of plasma			Engineering &	
	sprayed			Mechatronics	
	ceramic			(TECHSYNOD'1	
	coatings with different			7) organized	
	coating			byISTE MCET	
	thickness			chapter, KSCSTE,	
				CSIR, DRDO,	
				ISRO, IIChE and	
				Department of	
				Mechanical	
				Engineering,	
				Mohandas College	







				of Engines ::	
				of Engineering	
21 st & 22 nd		National	D	and Technology	M - 1 11
		National	Paper	National	Madanapalle
October			presenter	Conference on	Institute of
2016				Innovations in	Technology &
	Characterizati			Mechanical	Science,
	on and			Engineering	Madanapalle
	corrosion behavior of			(NCIME'16)organ	
	plasma			ized by	
	sprayed			Department of	
	ceramic			Mechanical	
	coatings on			Engineering,	
	AZ31B			Madanapalle	
	magnesium			Institute of	
	alloy			Technology &	
				Science,	
				Proceedings	
				(2016).	
26 th -27 th ,		National	Paper	National	Annamalai
March			presenter	Workshop on	University
2014	Influence of			Recent Advances	·
	plasma			in Welding and	
	sprayed alumina			Surface	
	coating			Engineering	
	thickness on			organized by	
	corrosion			Indian Welding	
	resistance of			Society (IWS) and	
	AZ31B			Annamalai	
	magnesium			University,	
	alloy			Proceedings	
				(2014).	
22 nd -23 rd ,		National	Paper	National	Annamalai
March	Influences of	1144101141	presenter	Workshop on	University
2012	atmospheric		presenter	Surface	Omversity
2012	plasma			Engineering	
	spraying			organized by	
	parameters on porosity of			Indian Welding	
	alumina			Society (IWS) and	
	coatings on			• ` ` `	
	AZ31B			Annamalai	
	magnesium			University,	
	alloy			Proceedings	
				(2012).	



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09 th -10 th	Effect of	National	Paper	National	Annamalai
April 2010	atmospheric		presenter	Workshop on	University
1	plasma		1	Surface	J
	spraying			Engineering	
	parameters on			organized by	
	corrosion			Indian Welding	
	behavior of alumina			Society (IWS)	
	coated			Annamalai	
	AZ31B			University,	
	magnesium			Proceedings	
	alloy			(2010).	
26 th & 27 th		National	Paper	National	Department of
July 2019			presenter	Conference on	Mechanical
				Recent	Engineering,
	Abrasive			Innovations in	Government
	wear			Welding and	College of
	characteristic			Surface	Engg, Bargur
	of High			Engineering	
	Velocity oxy-			(RIWASE19)orga	
	fuel (HVOF)			nized by	
	sprayed Titania			Department of	
	coating			Mechanical	
	coating			Engineering,	
				Government	
				College of Engg,	
				Bargur	
26 th & 27 th		National	Paper	National	Department of
July 2019			presenter	Conference on	Mechanical
				Recent	Engineering,
				Innovations in	Government
	Selection of			Welding and	College of
	Coating			Surface	Engg, Bargur
	Material for			Engineering	
	Magnesium			(RIWASE19)orga	
	Alloy Using			nized by	
	Fuzzy AHP- TOPSIS			Department of	
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				Engineering,	
				Government	
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				Bargur	
26 th & 27 th	Review of	National	Paper	National	Department of



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Inly 2010	Cold Spray		progenter	Conformes on	Mechanical
July 2019	Process		presenter	Conference on	
	1100033			Recent	Engineering,
				Innovations in	Government
				Welding and	College of
				Surface	Engg, Bargur
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				(RIWASE19)orga	
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				Department of	
				Mechanical	
				Engineering,	
				Government	
				College of Engg,	
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26 th & 27 th		National	Paper	National	Department of
July 2019			presenter	Conference on	Mechanical
				Recent	Engineering,
	Performance			Innovations in	Government
	Evaluation of			Welding and	College of
	HVOF			Surface	Engg, Bargur
	sprayed			Engineering	
	Cr ₃ C ₂ /NiCr			(RIWASE19)orga	
	coatings on			nized by	
	Stainless			Department of	
	steel			Mechanical	
				Engineering,	
				Government	
				College of Engg,	
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26 th & 27 th		National	Paper	National	Department of
July 2019	Investigation		presenter	Conference on	Mechanical
	on fusion			Recent	Engineering,
	zone			Innovations in	Government
	characteristic			Welding and	College of
	s of pulsed			Surface	Engg, Bargur
	current gta			Engineering	
	welded			(RIWASE19)orga	
	AZ31B			nized by	
	magnesium			Department of	
	alloy joints			Mechanical	
				Engineering,	
				Government	







				College of Engg,	
				Bargur	
26 th & 27 th		National	Paper	National	Department of
July 2019		Ivational	presenter	Conference on	Mechanical
July 2019			presenter	Recent	Engineering,
				Innovations in	Government
	Modelline				
	Modelling HVOF			Welding and Surface	College of
					Engg, Bargur
	Spraying			Engineering	
	Process: A			(RIWASE19)orga	
	Powerful			nized by	
	Tool in			Department of	
	Optimization			Mechanical	
				Engineering,	
				Government	
				College of Engg,	
th th				Bargur	
26 th & 27 th		National	Paper	National	Department of
July 2019			presenter	Conference on	Mechanical
	Development			Recent	Engineering,
	of empirical			Innovations in	Government
	relationship			Welding and	College of
	for prediction			Surface	Engg, Bargur
	of corrosion			Engineering	
	properties of			(RIWASE19)orga	
	magnesium			nized by	
	alloy using			Department of	
	response			Mechanical	
	surface			Engineering,	
	methodology			Government	
				College of Engg,	
				Bargur	
26 th & 27 th		National	Paper	National	Department of
July 2019	Investigation	1,44101141	presenter	Conference on	Mechanical
2017	on corrosion		Probenier	Recent	Engineering,
	performance			Innovations in	Government
	of AZ91D			Welding and	College of
	magnesium			Surface	Engg, Bargur
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	Sodium			(RIWASE19)orga	
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26 th & 27 th		National	Paper	National	Department of
July 2019			presenter	Conference on	Mechanical
				Recent	Engineering,
				Innovations in	Government
	Optimization			Welding and	College of
	of drilling			Surface	Engg, Bargur
	parameters of			Engineering	86, 8
	Al			(RIWASE19)orga	
	6063/SIC/M			nized by	
	OS2 hybrid			Department of	
	composite in			Mechanical	
	EDM			Engineering,	
				Government	
				College of Engg,	
				Bargur	
26 th & 27 th		National	Paper	National	Department of
July 2019		Trational	presenter	Conference on	Mechanical
July 2017			presenter	Recent	Engineering,
				Innovations in	Government
	Friction and			Welding and	College of
	wear			Surface	Engg, Bargur
	behavior of			Engineering	Eligg, Dargui
	Al 6063alloy			(RIWASE19)orga	
	and Al			nized by	
	6063/SiC/Mo			1	
	S2 hybrid			Department of Mechanical	
	composite				
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				College of Engg,	
26 th & 27 th	Study on	National	Donor	Bargur	Donortmant
	Study on temperature	National	Paper	National Conference on	Department of
July 2019	behaviour of		presenter	Conference on	Mechanical
	pulsed			Recent	Engineering,
	current GTA			Innovations in	Government
	welded			Welding and	College of
	AZ31B			Surface	Engg, Bargur
	magnesium			Engineering	



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	alloy joints			(RIWASE19)orga	
				nized by	
				Department of	
				Mechanical	
				Engineering,	
				Government	
				College of Engg,	
26 th & 27 th		National	Paper	Bargur National	Department of
July 2019		Ivational	presenter	Conference on	Mechanical
July 2017			presenter	Recent	Engineering,
	Evaluating			Innovations in	Government
	the				
	performance			Welding and	College of
	of hard faced			Surface	Engg, Bargur
	friction stir			Engineering	
	welding tools			(RIWASE19)orga	
	on AA7075-			nized by	
	T6			Department of	
	aluminium			Mechanical	
	alloy joints			Engineering,	
	direy joints			Government	
				College of Engg,	
				Bargur	
26 th & 27 th		National	Paper	National	Department of
July 2019			presenter	Conference on	Mechanical
	Effect of			Recent	Engineering,
	single, double			Innovations in	Government
	and multi			Welding and	College of
	passes on			Surface	Engg, Bargur
	corrosion			Engineering	_
	behaviour of			(RIWASE19)orga	
	friction stir			nized by	
	processed of			Department of	
	AZ91D			Mechanical	
	magnesium			Engineering,	
	alloy			Government	
	- J			College of Engg,	
				Bargur	
				Dargui	







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Date	Title of Activity	Level of Event (Internationa l/ National/ Local)	Role (Participan t)	Event Organized by	Venue
7 th April 2007	One day Workshop on Automotive Materials	National	Participant	FEAT, Annamalai University	Annamalai University
23 rd to 27 th June, 2008	Metaheuristics: Emerging Paradigm in Engineering Optimization	National	Participant	Department of Mechanical Engineering, Karpagam College of Engineering, Coimbatore	KarpagamColle ge of Engineering, Coimbatore
28 th to 30 th June, 2008	Faculty Awareness Camps on Enterpreneurship	National	Participant	Department of Mechanical Engineering, Karpagam College of Engineering, Coimbatore	KarpagamColle ge of Engineering, Coimbatore
17-18 th April, 2009	Two day Workshop on Environmentally Cleaner Welding Process	National	Participant	Manufacturin g Engineering, Annamalai University	Annamalai University
1 st to 13 th June, 2009	Automotive Materials and Electronics	National	Participant	Faculty of Engineering and Technology, Annamalai University	Annamalai University
9 th -10 th April, 2010	Two day Workshop on	National	Participant	Manufacturin g	Annamalai University



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	Surface Engineering			Engineering, Annamalai University	
5 th to 19 th October, 2010	In-service training programme	National	Participant	Manufacturin g Engineering, Annamalai University	Annamalai University
24 th November to 11 th December 2010	FDP on Pollution Free Manufacturing of Composite Materials and Weldability	National	Participant	Manufacturin g Engineering, Annamalai University	Annamalai University
11 th - 12 th March, 2011	Two days symposium for in-house Research Scholars	National	Participant	Centre for Materials Joining and Research, Manufacturin g Engineering, Annamalai University	Annamalai University
29 th July, 2011	One day workshop on Fatigue Life Evaluation of Welds	National	Participant	Centre for Materials Joining and Research, Manufacturin g Engineering, Annamalai University	Annamalai University
24-26 th Nov, 2011	Workshop on Marine Corrosion and Surface Engineering	National	Participant	Centre for Advanced Study in Marine Biology, Annamalai University, CECRI, Karaikudi	Annamalai University
18 th	One day	National	Participant	Centre for	Annamalai



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February 2012	symposium for Research Scholars			Materials Joining and Research, Manufacturin g Engineering, Annamalai University	University
23- 24 th March, 2012	Two day Workshop on Surface Engineering	National	Participant	Manufacturin g Engineering, Annamalai University	Annamalai University
31 st October -3 rd November, 2012	Workshop on Atmospheric Plasma Processing	National	Participant	Bharathiyar University, Coimbatore	Bharathiyar University, Coimbatore
26 th November, 2012	One day Workshop on Metallurgical Characteristics of Aluminium alloys	National	Participant	Manufacturin g Engineering, Annamalai University	Annamalai University
1 st February, 2014	One day Workshop on High Temperature Properties of Materials	National	Participant	Manufacturin g Engineering, Annamalai University	Annamalai University
5 th March 2014	One day Workshop on Friction Stir Welding of Steels	National	Participant	Manufacturin g Engineering, Annamalai University	Annamalai University
26-27 th March, 2014	National Conference on Recent Advances in Welding and Surface Engineering	National	Participant	Manufacturin g Engineering, Annamalai University	Annamalai University
17 th to 23 rd May, 2017	Faculty Development	National	Participant	Government College of	Government College of





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	1				
	Programme on			Engineering,	Engineering,
	'Metrology and			Bargur	Bargur
	Measurements'				
25 th July	TEQIP III	National	Participant	Government	Government
2020	sponsored		_	College of	College of
	webinar on			Engineering,	Engineering,
	"Protecting			Bargur	Bargur
	Research				
	Inventions				
	Through				
	Intellectual				
	Property Rights"				
23 rd , 24 th	Faculty	Local	Participant	Department	Coimbatore
April 2020	Development		_	of Technical	Institute of
	Programme(onlin			Education,	Technology,
	e) on "Design,			Tamilnadu &	Coimbatore
	Develop and			Coimbatore	
	Deliver online			Institute of	
	course through			Technology,	
	MOODLE			Coimbatore	
	Platform"				
08-12 th	Online	National	Participant	Indian	Indian Institute
February202	Professional			Institute of	of Management,
1	Development			Management,	Raipur
	Training			Raipur	

Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/	Date (s)	Role	Venue
	Local)			
Recent Innovations in	National	26 th & 27 th July	Coordinator	Government
Welding and Surface		2019		College of
Engineering				Engineering,
(RIWASE19)				Bargur



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TEQIP III Sponsored National Conference on Recent Advances in Mechanical Science and Technology(RAMSAT18)	National	29 th -30 th November 2018	Coordinator	Government College of Engineering, Bargur
TEQIP III Sponsored Faculty Development Programme on "Recent Innovations and Research Trends in Nanomaterial and Surface Coating"	National	01 st – 07 th August, 2019	Coordinator	Government College of Engineering, Bargur
TEQIP III Sponsored Student Training Programme on "Materials Characterisation Techniques"	Local	29th – 30th October, 2018	Coordinator	Government College of Engineering, Bargur
AICTE-STTP on "Hands on Training on MATLAB and Advanced Optimization Techniques"	National	Phase I: 21.12.2020 to 26.12.2020 Phase II: 18.01.2021 to 23.01.2021 Phase III:20.02.2021 to 25.02.2021	Coordinator	Government College of Engineering, Bargur
AICTE-ISTE Refresher/Induction Programme on "Outcome based Education"	National	Phase I: 28.12.2020 to 02.01.2020	Coordinator	Government College of Engineering, Bargur

Invited Talks delivered

Topic	Date	Inviting Organization



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Membership of Learned Societies

Type of Membership	Organization	Membership No. with date
(Ordinary Member/ Honorary		
Member / Life Member)		
Life Member	Indian Welding Society	L-00975

Academic Foreign Visits

Country	Duration of Visit	Programme

Publications: International Journals

S.	Author(s)	Title	Name of	Vol.	Page no	Year
No			Journal			
1	S. Deepak, D. Thirumalaikumarasamy, M. Ashokkumar, & S. K. Nayak	Experimental analyzing the static puncture resistance performance of shear thickening fluid impregnated polypropylene hybrid composite target structures for armour application	The Journal of The Textile Institute (Taylor and Francis Publisher) (IF-1.86)	Accept		2022
2	Ashokkumar M, Thirumalaikumarasamy D, Sathiyamoorthy R, Murugan K, Guruprasad B, Deepak S and Lijalem Mulugeta	Optimization of Cold Spray Process Inputs to Minimize Porosity and Maximize Hardness of Metal Matrix Composite Coatings	Journal of Nano Material (Hindawi Publisher) (IF-2.986)	Accept		2022







3	Ashokkumar M, Thirumalaikumarasamy D, Ramachandran C S, Thirumal P, Sathiyamoorthy R, Murugan K, Guruprasad B, Deepak S and Pradeep Raj R	Enhancing the Corrosion Resistance of Low Pressure Cold Sprayed Metal Matrix Composite Coatings on AZ31B Mg Alloy through Friction Stir Processing	Coatings (MDPI Publisher) (IF-2.881)	12	135	2022
4	Pradeep Raj R, Thirumalaikumarasamy D, Ramachandran C S, Ashokkumar M , Sathiyamoorthy R, Guruprasad B, ,K Murugan and L.Renjith	Optimisation of HVOF Spray Process Parameters to Achieve Minimum Porosity and Maximum Hardness in WC-10Ni-5Cr Coatings	Coatings (MDPI Publisher) (IF-2.881)	12	339	2022
5	Daniel C. Ribu, R. Rajesh, <u>D.</u> <u>Thirumalaikumarasamy</u> , Abdul Razak Kaladgi, C. Ahamed Saleel, Kottakkaran Sooppy Nisar, Saboor Shaik, Asif Afzal	Experimental investigation of erosion corrosión performance and slurry erosion mechanism of HVOF sprayed WC-10Co coatings using design of experiment approach	Journal of Materials Research and Technology (Elsevier) (IF-5.289)	18	293-314	2022
6	K.Mathivanan, D.Thirumalaikumarasamy, , P.Thirumal ,M.Ashokkumar	Investigate the corrosion properties of stellite coated on AZ91D alloy by plasma spray technique Thermal Science (International Scientific Journal) (IF-1.39)		-	-	2021
7	Daniel C Ribu, R. Rajesh, <u>D</u> . <u>Thirumalaikumarasamy</u> , S. Vignesh R. Paventhan	Development of empirical relationships to predict porosity and hardness of WC-10Co coatings on 35CrMo steel using DOE approach	AIP Conference Proceedings(IF-0.40)	2395	050011	2021
8	K. Mathivanan, <u>D.</u> <u>Thirumalaikumarasamy</u> , M. Ashokkumar, S. Deepak, M.Mathanbabu	Optimization and Prediction of AZ91D Stellite-6 coated magnesium alloy using Box Behnken Design and Hybrid Deep Belief Network	Journal of Materials Research and Technology (Elsevier) (IF-5.289)	15	2953-2969	2021
9	R.V.Prasad, R. Rajesh, & <u>D.</u> <u>Thirumalaikumarasamy</u>	Sensitivity analysis and optimisation of HVOF process inputs to reduce porosity and maximise hardness of WC-10Co-4Cr coatings	Sadhana (Springer Publications) (IF- 1.188)	46	149	2021
10	R.Barathiraja, P.Thirumal,	Investigation of Drying	Materials today	46	7711-7718	2021





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	D.Thirumalaikumarasamy	Kinetics and Qualities of	proceedings			
		Turkey Berry in Fluidized Bed Dryer	(Elsevier) (IF- 1.24)			
11	M.Ashokkumar, <u>D.Thirumalaikumarasamy,</u> P. Thirumal, R.Barathiraja	Influences of mechanical, corrosion, erosion and tribological performance of cold sprayed coatings-A review	Materials today proceedings (Elsevier) (IF- 1.24)	46	7581-7587	2021
12	M.Mathanbabu, <u>D.Thirumalaikumarasamy</u>	Study on thermal, mechanical, microstructural properties and failure analyses of lanthanum zirconate based thermal barrier coatings: A review	Materials today proceedings (Elsevier) (IF- 1.24)	46	7948-7954	2021
13	Daniel C.Ribu, R.Rajesh, <u>D.Thirumalaikumarasamy</u> , S.Vignesh	Influence of rotational speed, angle of impingement, concentration of slurry and exposure time on erosion performance of HVOF sprayed cermet coatings on 35CrMo steel	Materials today proceedings (Elsevier) (IF- 1.24)	46	7518-7530	2021
14	S. Deepak, <u>D. Thirumalaikumarasamy</u> P. Thirumal, T. Dharun, K. P. Bhuvana, R. Joseph Bensingh, K. Prakalathan& S. K Nayak	Preparation and characterization of shear thickening fluid coated polypropylene fabric for soft armour application	The Journal of The Textile Institute (Taylor and francis Publications) (IF-1.86)	Accept		2020
15	R.V.Prasad, R. Rajesh, & <u>D.</u> <u>Thirumalaikumarasamy</u>	Selection of coating material for magnesium alloy using Fuzzy AHP- TOPSIS	Sadhana (Springer Publications) (IF- 1.188) (CI-9)	45	23	2020
16	S. Vignesh, V. Balasubramanian, K. Sridhar, D. Thirumalaikumarasamy	Slurry erosion behavior of HVOF-sprayed amorphous coating on stainless steel Metallography Microstructure and Analysis (Springer Publications) (IF-1.27) (CI-3)		8	1-10	2019
17	S. Vignesh, K.Shanmugam, V. Balasubramanian, K.Sridhar, and D.Thirumalaikumarasamy	Electrochemical corrosion behaviour of HVOF sprayed iron based amorphous metallic coatings on AISI 316 stainless steel in NaCl solution	Journal of the Mechanical Behavior of Materials (Degruyter) (IF-1.49) (CI-2)	27	1-9	2018
18	D.Thirumalaikumarasamy, V. Balasubramanian, S. SreeSabari, R. Rajesh and Medha R. Elayidom	Predicting the deposition efficiency of plasma sprayed alumina coatings on AZ31B magnesium alloy by response surface methodology	Applied Mechanics and Materials (Trans Tech Publications)	877	66-81	2018





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10	D. III.' 1.'1	D 1: 2: 1 2: 2: 2:	T 1 CM .		122 145	2017
19	D.Thirumalaikumarasamy V.Balasubramanian and S.Sreesabari	Prediction and optimization of process variables to maximize the Young's modulus of plasma sprayed alumina coatings on AZ31B magnesium alloy	Journal of Magnesium and Alloys (Elsevier) (IF-10.088) (CI-6)	5	133-145	2017
20	D.Thirumalaikumarasamy, V. Balasubramanian, S. SreeSabari, and S. Vignesh	Comparison of Artificial Neural Networks (ANN) and Response Surface Methodology (RSM) Modeling Approaches in Predicting the Deposition Efficiency of Plasma Sprayed Alumina Coatings on AZ31B Magnesium Alloy	Journal of Advanced Microscopy Research	12	1-10	2017
21	Medha. R. Elayidom, Abhishek A.S, AkhilMohan, AbhijithVijayakumar, R. Rajesh, N. Balakrishnan, D. Thirumalaikumarasamy	Fabrication of Stainless Steel Matrix Composites Containing up to 15% Boron Carbide	International Journal of Advanced Chemical Science and Applications (IJACSA)	5	21-24	2017
22	D.Thirumalaikumarasamy K.Shanmugam, V.Balasubramanian and S.Vignesh	Effect of pH, chloride ion concentration and immersion time on the microstructural and corrosion properties of atmospheric plasma sprayed alumina coatings on AZ31B magnesium alloy under immersion environment	Journal of Advanced Microscopy Research	11	62-71	2016
23	D.Thirumalaikumarasamy K.Shanmugam, V.Balasubramanian and S.Vignesh	Microstructural and corrosion properties of atmospheric plasma sprayed alumina coatings on AZ31B magnesium alloy under sodium chloride environment	Journal for Manufacturing Science and Production (Degruyter)	16	89–102	2016
24	D.Thirumalaikumarasamy K.Shanmugam and V.Balasubramanian	Effect of experimental parameters on the micro hardness of plasma sprayed alumina coatings on AZ31B magnesium alloy	Journal of Magnesium and Alloys (Elsevier) (IF-10.088) (CI-24)	3	237–246	2015
25	D.Thirumalaikumarasamy K.Shanmugam and V.Balasubramanian	Predicting the immersion corrosion behaviour in NaCl solution of atmospheric plasma sprayed alumina coatings on AZ31B magnesium alloy	International Journal of Computational Materials Science and Surface Engineering (Inderscience) (IF-0.2)	6	130-159	2015
26	D.Thirumalaikumarasamy K.Shanmugam and	Developing empirical relationships to predict	Journal for Manufacturing Science	15	169–181	2015



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	V.Balasubramanian	porosity and microhardness	and Production			
	V.Buidsdorumanian	of atmospheric plasma- sprayed alumina coatings on	(Degruyter) (CI-4)			
		AZ31B magnesium alloy	(C1 1)			
27	D.Thirumalaikumarasamy	Comparison of the corrosion	Journal of Magnesium	2	36-49	2014
	K.Shanmugam and	Behavior of AZ31B	and Alloys (Elsevier)			
	V.Balasubramanian	magnesium alloy under	(IF-10.088) (CI-62)			
		immersion test and				
		potentiodynamic polarization test in NaCl				
		solution				
28	D.Thirumalaikumarasamy	Influence of pH, chloride	Journal of Surface	30	183-194	2014
	K.Shanmugam and	ion concentration and	Engineering (Taylor			
	V.Balasubramanian	spraying time on the	and Francis)			
		corrosion behaviour of	(IF-3.169)			
		atmospheric plasma sprayed	(CI-5)			
29	D.Thirumalaikumarasamy	alumina coatings Establishing empirical	Journal of Magnesium	2	140-153	2014
27	K.Shanmugam and	relationships to predict	and Alloys (Elsevier)	4	140-133	2014
	V.Balasubramanian	porosity level and	(IF-10.088) (CI-18)			
		corrosion rate of				
		atmospheric plasma-				
		sprayed alumina coatings				
		on AZ31B magnesium				
30	D.Thirumalaikumarasamy	alloy Corrosion performance of	Journal of Asian	2	403–415	2014
30	K.Shanmugam and	atmospheric plasma sprayed	Ceramic Societies	2	403–413	2014
	V.Balasubramanian	alumina coatings on AZ31B	(Elsevier)			
		magnesium alloy under	(IF-3.125) (CI-25)			
		immersion environment				
31	D.Thirumalaikumarasamy	Influence of chloride ion	Journal of Magnesium	2	325–334	2014
	K.Shanmugam and	concentration on immersion	and Alloys (Elsevier)			
	V.Balasubramanian	corrosion behaviour of plasma sprayed alumina	(IF-10.088) (CI-20)			
		coatings on AZ31B				
		magnesium alloy				
32	D.Thirumalaikumarasamy	Developing an empirical	Transactions of the	67	19-32	2014
	K.Shanmugam and	relationship to predict	Indian Institute of			
	V.Balasubramanian	corrosion rate of AZ31B	Metals (Springer)			
		magnesium alloy under	(IF-0.533)			
		sodium chloride environment	(CI-10)			
33	D.Thirumalaikumarasamy	Electrochemical corrosion	International Journal of	3	18390-	2014
33	K.ShanmugamV.Balasubram	behavior of atmospheric	Innovative Research in	3	18414	2011
	anian, andR.Paventhan	plasma sprayed alumina	Science,			
		coatings	Engineering and			
			Technology		1	
34	D.Thirumalaikumarasamy	Optimisation and sensitivity	International Journal of	5	346-369	2013
	K.Shanmugam and V.Balasubramanian	analysis of atmospheric plasma spraying parameters	Computational Materials Science and			
	v .Daiasuorailiailiaii	piasma spraying parameters	iviaterials science and			



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		to minimise the porosity in alumina coatings on AZ31B	Surface Engineering (Inderscience)			
		magnesium alloy	(IF-0.2) (CI-2)			
35	D.Thirumalaikumarasamy	Influence of pH, chloride	International Journal of	3	308-320	2013
	K.Shanmugam and	ion concentration and	Emerging Technology			
	V.Balasubramanian	exposure time on the	and Advanced			
		electrochemical corrosion	Engineering			
		behaviour of AZ31B				
		magnesium alloy				
36	D.Thirumalaikumarasamy	Prediction of corrosion rate	Usak University	1	75-98	2013
	K.Shanmugam and	of AZ31B magnesium alloy	Journal of Material			
	V.Balasubramanian	under salt fog environment	Sciences			
		in NaCl solution		_		
37	D.Thirumalaikumarasamy	Prediction of porosity level	Journal of Advanced	8	1-21	2013
	K.Shanmugam and	and corrosion rate of	Microscopy Research			
	V.Balasubramanian	atmospheric plasma sprayed				
		alumina coatings on AZ31B				
		magnesium alloy				
38	D.Thirumalaikumarasamy	Influences of atmospheric	Journal of Progress in	22	468–479	2012
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	D.Thirumalaikumarasamy	friction stir spot welding	(SME)			
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ORCID ID: https://orcid.org/0000-0003-0195-0668

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