




Faculty Profile

Name	: Dr. T. Arun Nellaiappan					
Date of Birth	: 18.05.1987					
Highest Qualification	: Ph.D					
Date of Joining	: 29.03.2023					
Designation	: Associate Professor					
Date of promotion (Present Designation)	: NA					
Areas of Interest	: Material Testing, Material Science, Manufacturing Technology, Surface Engineering, Coatings					
Mobile No	: +91 8870744089	Email ID	: arunnellaippan.t@trn.srmtrichy.edu.in			
Experience	: Teaching :	5.3 Years	Industry :	2 Years	Research :	4 Years
Address (for Communication)	: 99, Railway Station Road, Kalankarai, Shengottai-627809					

Association with Professional Bodies

Name (Professional Body)			
Type of Membership			

Research

Ph. D Guidance					
Supervisor / Guide ship No. :	NA	University :		No. of Scholars :	-
Publication					
International Journals :	13	National Journals :	0		
International Conference	4	National Conference :	0		
Project Grants (Research projects guided or undertaken/ Sponsored Projects)					
Received (Amount) :	-	Applied (Amount) :	-		
Patent					
Published :	0				
Books/Book Chapters					
Published :	0				

FDPs / STTPs / Workshops / Seminars etc.,

FDP		STTP		Workshop		Seminar		Others	
Attended :	4	Attended :	0	Attended :	10	Attended :	3	Attended :	-
Organized :	0	Organized :	0	Organized :	2	Organized :	1	Organized :	-

Online courses (NPTEL, MOOC etc.)	1
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Signature of the Faculty

HOD

*List of Publications :

S.No	Paper Title	Year
19	Correlation Between Microstructure and Corrosion Behavior of the Dissimilar Joints of Incoloy 800HT and P91 Steel Using GTAW Process V Lakshmanan, P Sathiya, T Arunnellaiappan, N Jeyaprakash Transactions of the Indian Institute of Metals 77 (3), 685-696	2024
18.	Surface Properties of Ti-6Al-4V Alloy in Spark Machining with Equal Channel Angular Pressing: Processed Copper Electrode and Optimization of Process Parameters Using Response ... R Gopal, K Ananthakumar, T Arunnellaiappan Journal of Materials Engineering and Performance, 1-10	2023
17.	Degradation of distillery effluent by twisted-type Iron electrodes: experimental with ANN approach C David, A Thangavelu International Journal of Environmental Analytical Chemistry 102 (18), 6121-6133	2022
16.	Corrosion behaviour of detonation gun sprayed cermet coatings on AA5083 T Arunnellaiappan, S Baskaran, S Arun, R Prithivirajan Surface Engineering 37 (2), 263-270	2021
15.	A review on the suitability of wire arc additive manufacturing (WAAM) for stainless steel 316 A Karpagaraj, S Baskaran, T Arunnellaiappan, NR Kumar AIP Conference Proceedings 2247 (1)	2020
14.	Fabrication of superhydrophobic coating on PEO treated zirconium samples and its corrosion resistance S Arun, PN Sooraj, S Hariprasad, T Arunnellaiappan, N Rameshbabu Materials Today: Proceedings 27, 2056-2060	2020
13.	Development of black corrosion-resistant ceramic oxide coatings on AA7075 by plasma electrolytic oxidation RB Nagumothu, A Thangavelu, AM Nair, A Sukumaran, T Anjilivelil Transactions of the Indian Institute of Metals 72, 47-53	2019
12.	Fabrication of corrosion resistant hydrophobic ceramic nanocomposite coatings on PEO treated AA7075 T Arunnellaiappan, S Arun, S Hariprasad, S Gowtham, B Ravisankar, ... Ceramics International 44 (1), 874-884	2018
11.	Solar photocatalytic activity of nitrogen doped TiO ₂ coating by micro-arc oxidation S Sridhar, T Arunnellaiappan, N Rameshbabu, S Mika, A Viswanathan Surface Engineering 33 (10), 779-786	2017
10.	An investigation on ZrO ₂ nano-particle incorporation, surface properties and electrochemical corrosion behaviour of PEO coating formed on Cp-Ti S Gowtham, S Hariprasad, T Arunnellaiappan, N Rameshbabu Surface and Coatings Technology 313, 263-273	2017
9.	Fabrication of multifunctional black PEO coatings on AA7075 for spacecraft applications T Arunnellaiappan, S Anoop, N Rameshbabu Surface and Coatings Technology 307, 735-746	2016
8.	Fabrication of the nanoparticle incorporated PEO coating on commercially pure	2016

- zirconium and its corrosion resistance
S Arun, T Arunnellaiappan, N Rameshbabu
Surface and Coatings Technology 305, 264-273
7. An investigation on pulsed DC plasma electrolytic oxidation of cp-Ti and its corrosion behaviour in simulated body fluid 2016
S Gowtham, T Arunnellaiappan, N Rameshbabu
Surface and Coatings Technology 301, 63-73
 6. Role of electrolyte additives on in-vitro corrosion behavior of DC plasma electrolytic oxidization coatings formed on Cp-Ti 2016
S Hariprasad, M Ashfaq, T Arunnellaiappan, M Harilal, N Rameshbabu
Surface and Coatings Technology 292, 20-29
 5. Fabrication of corrosion-resistant Al₂O₃-CeO₂ composite coating on AA7075 via plasma electrolytic oxidation coupled with electrophoretic deposition 2016
T Arunnellaiappan, M Ashfaq, LR Krishna, N Rameshbabu
Ceramics international 42 (5), 5897-5905
 4. Influence of frequency and duty cycle on microstructure of plasma electrolytic oxidized AA7075 and the correlation to its corrosion behavior 2015
T Arunnellaiappan, NK Babu, LR Krishna, N Rameshbabu
Surface and Coatings Technology 280, 136-147
 3. Effect of electrical parameters on morphology and in-vitro corrosion resistance of plasma electrolytic oxidized films formed on zirconium 2015
M Sandhyarani, M Ashfaq, T Arunnellaiappan, MP Selvan, ...
Surface and Coatings Technology 269, 286-294
 2. Estimation of crystallite size, lattice strain and dislocation density of nanocrystalline carbonate substituted hydroxyapatite by X-ray peak variance analysis 2014
K Venkateswarlu, M Sandhyarani, TA Nellaippan, N Rameshbabu
Procedia Materials Science 5, 212-221
 1. Effect of Ag doping on antibacterial and photocatalytic activity of nanocrystalline TiO₂ 2014
M Harikishore, M Sandhyarani, K Venkateswarlu, TA Nellaippan, ...
Procedia materials science 6, 557-566