



Name : Dr. R. Mahendran

Designation : Assistant Professor

Department : Physics, S&H

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### 1. Educational Qualification:

Degree	Branch/Specialization	Institute/University	Year of passing
B.Sc	Physics	Devanga Arts College/MKU	2001
M.Sc	Physics	VHNSN/MKU	2003
M.Tech	Materials Science	NITT/NITT	2007
Ph.D	Materials Science	NITT/NITT	2018

### 2. Professional/Industry Experience:(in chronological order)

Sl. No.	Designation	Institute/Organization	Period	
			From	To
1	Assistant Professor	Vaigai College of Engineering	Jan 2022	Till
2	Guest Faculty	NITT	Jul 2019	May 2021
3	SRF	NITT	Nov2012	Aug 2016
4	Quality Engineer	Afcon, Mumbai	Aug 2007	Aug 2012

### 3. Research Interest: Surface Engineering, High Entropy alloys, Nanomaterials

#### Journal Publications (add patent if any):

S. No.	SCI
1	<b>R. Mahendran</b> , S. Manivannan, S. Senthilkumaran , A. Vallimanalan, M. Murali, S. Gokul Raj, S.P.Kumaresh Babu (2019) Crystal growth behavior and phase stability of rare earth oxides (4 mol.% GdO <sub>1.5</sub> -4 mol.% SmO <sub>1.5</sub> ) doped zirconia nanopowders, <i>Journal of Materials Research and Technology</i> , 8 (6), 5867-5873. <b>Impact factor : 3.327</b>
2	V Ashokan, B Kumaresh, S Muthukumaran, M Murali, <b>R Mahendran</b> , Gaurav Vivek, S Manivannan (2019) Synthesis, characterisation and erosion behaviour of AlCoCrMoNi high entropy alloy coating, <i>Material Research Express</i> , 6 (11), 116543. <b>Impact factor: 1.449</b>
3	T.Aravind, M.Rajkumar, S.P.Kumaresh Babu, <b>R.Mahendran</b> (2019) High Temperature

	erosion behavior of cast nickel base 73Ni-13Cr-4Sn-4Bi-Mo alloy, <i>Material Research Express</i> , 6, 0865f6. <b>Impact factor: 1.449</b>
4	S.Manivannan, S.Senthilkumaran, A.Vallimanalan, <b>R.Mahendran</b> , S.P.Kumaresh Babu,(2019) Stress corrosion cracking of AZ91+xCe Alloy using proof ring test in ASTM D1384 and NaCl-K <sub>2</sub> Cr <sub>2</sub> O <sub>4</sub> solutions, <i>J. of Materials Engineering and Performance</i> ,28(5),2552-2561. <b>Impact factor : 1.340</b>
5	M. Murali, S.P.Kumaresh Babu, Jichil Majii,, A.Vallimanalan and <b>R. Mahendran(2018)</b> “Processing and characterization of nano crystalline AlCoCrCuFeTiX high-entropy alloy”, <i>Powder Metallurgy</i> , 61, 139-148, 2018 <b>Impact factor : 0.893</b>
6	<b>R. Mahendran</b> , S.P. Kumaresh Babu, S. Natarajan, S. Manivannan, A. Vallimanalan (2017) “Phase transformation and crystal growth behavior of 8 mol% (SmO <sub>1.5</sub> , GdO <sub>1.5</sub> and YO <sub>1.5</sub> ) stabilized ZrO <sub>2</sub> powders”, <i>International Journal of Minerals, Metallurgy and Materials</i> , 24, 842-848. <b>Impact factor : 1.261</b>
7	<b>R. Mahendran</b> , S.P. Kumaresh Babu, S. Natarajan, A. Vallimanalan, S. Manivannan (2017), “Thermal kinetics and phase stability of 8 mol. % samaria doped zirconia nanopowders prepared via reverse coprecipitation”, <i>Ceramics International</i> , 43, 8051-8056. <b>Impact factor : 3.450</b>
8	T. Aravind Nagaraj, S.P.Kumaresh Babu, A.Vallimanalan, S.A.Srinivasan, <b>R.Mahendran</b> , (2019), Solid particle erosion studies of Cast CY5SnBiM at room temperature, <i>J. of Institution of Engineers: Series D</i> , 100, 91-96
9	M. Rajkumar, S.P.Kumaresh Babu, A.Vallimanalan, <b>R.Mahendran(2019)</b> , Room temperature erosion behavior of Nb-stabilized 27Cr-7Ni-Mo-W-N cast hyper-duplex stainless steel( Nb+CD3MWN-7A), <i>J. of Institution of Engineers: Series D</i> , 10083-90
<b>SCOPUS</b>	
10	V Ashokan, B Kumaresh, S Muthukumaran, M Murali, Gaurav Vivek, <b>R Mahendran(2019)</b> Corrosion behaviour of thermally sprayed Mo added AlCoCrNi high entropy alloy coating, <i>Materials Today:Proceedings</i>

#### 4. Book/Book chapter publications: NIL

#### 5. Funded Projects: NIL

Sl. No.	Title of the project	Funding Agency	Duration	Amount	Status
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#### 6.Ph.Dguidance: NIL

Sl. No.	Scholar Name	University	Topic	Status
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#### 7. Participation in Seminars/FDP/Workshop/Conference/Webinar:

Sl. No.	Title of the event	Attended/Organized	Date	
			From	To
1	IMME17-2017	Attended/Organized	Mar 10,2017	Mar 12, 2017
2	Advances in Materials Manufacturing Applications,2015	Attended/Organized	Apr 9,2015	Apr 11, 2015
3	Asian Thermal Spray Conference, 2014	Attended	Oct 17, 2014	Oct 21, 2014



4	Powder Metallurgy of Refractory and Hard Metals	Attended	Dec 8,2006	Dec 9,2006
5	Interpersonal skills under Technical Education Quality improvement programme (TEQIP)	Attended	Jan 20, 2007	Jan 20, 2007

**9. Membership in Professional societies: NIL**

**10. Awards, Recognition & Achievements: IAPT (at B.Sc level), ASNT Level II**

**Any others(if any):**