

Dr.V.ANBUMALAR, M.E., PhD.,MIE., MISNT., MISTE., MIAENG.,

Professor /Mechanical Engineering

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<https://scholar.google.co.in/citations?user=I1YZLykAAAAJ&hl=en>

<http://www.researchgate.net/profile/Anbumalar>

<https://kinematicmechanism.wordpress.com/>



Educational Qualification:

Sl. No.	Degree	Institution	Year	Division/Class
1.	Ph.D.(Mechanical Engineering)	Anna University, Chennai	2009	-
2.	M.E.(Production Engineering)	Thiagarajar College of Engineering , Madurai	1999	First Class with Distinction
3.	B.E (Mechanical Engineering)	Thiagarajar College of Engineering , Madurai	1998	First Class

Experience in Years:22

Employment History:

Sl. No.	Position & Organisation	Nature of Job	Period	
			From	To
01	Professor, Velammal College of Engineering and Technology, Madurai	Teaching and research	01.02.2011	Till date
02	Principal, Sri RaajaRaajan College of Engineering and Technology, Karaiudi	Administration & Teaching	03.05.2010	31.01.2011
03	Assistant Professor, K.L.N. College of Engineering, Madurai	Teaching and research	02-01-2008	30.04. 2010
04	Assistant Professor, R.V.S College of Engineering & Technology, Dindigul-5	Teaching and research	02.06.2000	31-12-2007

Interested Research Areas:

- Cellular Manufacturing System
- Biomass Gasification
- Optimization Techniques
- Composite Materials
- Friction Stir Welding
- Robotics

Research Supervisor: Recognized as research supervisor for guiding Ph.D and M.S by research by Anna University Chennai (Ref: **2520079**)

- Ph.D awarded 8
- Ph.D. Pursuing 8

Scholarships and Awards received:

- **Visited Tunisia in 2018 and 2019 for the Indo Tunisia Project titled “Development of multi stage fluid bed biomass gasification system”**
- **Received appreciation certificate for TI-MooC-Embedded Design Systems on NPTEL Platform**
- **Received appreciation certificate for SPOC Active Local Chapter NPTEL**

Funded Research Projects:

Funding Agency	Scheme	Title	Sanctioned Amount	Year	Principal Investigator(PI)	Co-PI
DST	Indo-Tunisia	Development of multi stage fluid bed biomass gasification system	17.00 Lakhs	2017	Dr.V.Anbumalar Prof. Borjini Mohamed (Tunisia)	-
DST EDI	Startup -NIDHI	Pearl Millet removing Machine	12.00 Lakhs	2018	Dr.V.Anbumalar	
DST	IDP	Efficient Approach of Coconut Plucking Process – A Human Powered, Safe Mechanical Device	23.62 Lakhs	2012	Dr. P Rajesh Kanna	Dr. G. Manikandan Dr. V. Anbumalar
DST	STTP	Development of Safe, Human powered and low cost Multipurpose machine for firework industry at Sivakasi cluster	20.00 Lakhs	2015	Dr. G. Manikandan	Dr. V. Anbumalar Dr. P Rajesh Kanna
MSME	-	Equipment For Plantation Agricultural Automation	5.00 Lakhs	2014	Dr.V.Anbumalar	Mr. N.Dineshkumar
IE		Green Robot	0.9 Lakhs	2012	Dr.V.Anbumalar	Mr. N.Dineshkumar

Patent rights received:Nil

Publications Details: (will be either in Table (or) Paragraph starting with latest publication)

1. Patent Journal Publication Details:Nil

2. International Journal Publication Details:

- **Anbumalar V** Saravana Mohan M Thirumalai Kumaran, “Kinematic modelling and simulation of PID controlled SCARA robot with multiple tool end effectors”. International Journal of Modelling, Identification and Control, December 2021, Vol 35(1):Page 9-19
- Pandya Madhan Kumar and **Veerabathiran Anbumalar**, “Effect of Pin Profiles on the Mechanical Properties of Friction-Stir-Welded AA5383 and AA7075, Materials and Technology 2020 Vol 54 (1) Page 3-9
- M Shunmugasundaram, R Kamalakannan, **V Anbumalar**, D Maneiah., “Machine cell formation and part family identification by combined algorithm”. March 2021 Vol (14) (3-4) Page 200-211
- Maryem Dhrioua, Walid Hassen, Lioua Kolsi, **Veerabathiran Anbumalar**, Ali Sulaiman Alsagri, Mohamed Naceur Borjini, “Gas distributor and bed material effects in a cold flow model of a novel multi-stage biomass gasifier”, Biomass and Bioenergy, Volume 126 , July 2019, Pages 14-25. (Impact Factor = 3.537; Cite Score = 3.96)
- Walid Hassen, Maryem Dhrioua, Lioua Kolsi, **Veerabathiran Anbumalar**, Abdullah A.A.A Al-Rashed, Mohamed N Borjini. “CFD Modeling of Gas-Particles Flow in a Circulating Fluidized G-Volution Gasification Reactor” International Journal of Mechanical Sciences, Volume 144, August 2018, Pages 438-451. (Impact Factor = 4.134; Cite Score = 4.47)

3. International Conference Presentation Details:


- Maryem Dhrioua, Walid Hassen, Lioua Kolsi, **V. Anbumalar** and Mohamed Naceur Borjini. "Aspen Plus modeling of Prosopis Juliflora gasification in a multistage gasifier", International Conference on Engineering and Sustainable Development - ICESD 2019.
- **Veerabathiran Anbumalar**, Irudayaraj Ambrose Edward, Maryem Dhrioua, Mohamed Naceur Borjini and Walid Hassen. "Conceptual Design of Fluidized Dual Bed Gasification System", International Conference on Engineering and Sustainable Development - ICESD 2019
- Maryem Dhrioua, Ambrose Edwards, Walid Hassen, Lioua Kolsi, **V. Anbumalar** and Mohamed Naceur Borjini. "Aspen Plus simulation of biomass air gasification in a bubbling fluidized bed using char as bed material", International Conference on Innovative Research in Thermal and Manufacturing Engineering - IRTME 2019.

- Maryem Dhrioua, Walid Hassen, Lioua Kolsi, **V. Anbumalar** and Mohamed Naceur Borjini. "Effects of the combustor size on the fluidized bed hydrodynamics of a novel multi-stage gasifier", International Conference on Emerging and Renewable Energy: Generation and Automation (ICEREGA'18).
- Maryem Dhrioua, Walid Hassen, Lioua Kolsi, **V. Anbumalar** and Mohamed Naceur Borjini. "Preliminary Hydrodynamic Study on New Multi-stage Biomass Gasifier", The 9th International Renewable Energy Congress (IREC 2018), IEEE, 2018.

4. National Conference Presentation Details: Nil

5. Google Scholar report:

<https://scholar.google.com/citations?user=I1YZLykAAAAJ&hl=en>

ANBUMALAR V  FOLLOWING





Professor, Department of Mechanical Engineering, [Velammal College of Engineering and Technology](#)
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Manufacturing Composite material Friction Stir Welding Briquette Robotics

	All	Since 2016
Citations	155	152
h-index	7	7
i10-index	6	6

TITLE	CITED BY	YEAR
Dynamic mechanical analysis and crystalline analysis of hemp fiber reinforced cellulose filled epoxy composite <small>SRV Anand Palanisvel, Anbumalar Venkatharasi, Rajesh Durvasula, Polimeros 27 (4), 309-319</small>	26	2017
Modelling and simulation of multi spindle drilling redundant SCARA robot using SolidWorks and MATLAB/SimMechanics <small>AVSM Marappan, Revista Facultad de Ingenieria 01</small>	20	2016
Biomass briquette manufacturing system model for environment <small>P Balasubraman, V Anbumalar, MS Nagarajan, PM Prabu, Journal of Alloys and Compounds 686, 659-665</small>	16	2016
Conjugate heat transfer from sudden expansion using nanofluid <small>PR Karim, J Taler, V Anbumalar, AV Santhosh Kumar, A Pushpanaj, Numerical Heat Transfer, Part A: Applications 67 (1), 75-99</small>	13	2015
Gas distributor and bed material effects in a cold flow model of a novel multi-stage biomass gasifier <small>M Dhrioua, W Hassen, L Kolsi, V Anbumalar, AS Azaoui, MN Borjini, Biomass and Bioenergy 126, 14-26</small>	12	2015
Mechanical Properties of Cellulose-filled Epoxy Hybrid Composites Reinforced with Akuli...	10*	2015

Co-authors EDIT

-  Dr. K. Arun Prasath, Assistant Professor, Department ...
-  balasubraman p, SCRA College of Technology, Salem
-  Arun Senthil Kumar A, Assistant professor of Mechanic...
-  Saravananohar, ...