

Dr. M. Siva Kumar

Professor & Dean (FME)

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

400 Feet Outer Ring Road

Avadi, Chennai -600 062.

Mobile No. 7373033270

Email: drmsivakumar@veltech.edu.in

lawan.sisa@gmail.com

Specialization: Manufacturing, Optimization, Selective Assembly, Tolerance Allocation

No. of Publications: 61

1.	Thermal and electrical performance evaluation of PV/T collectors in Southern India N Lenin, P Sivamurugan, B Srimanickam, P Ramanan, M Siva Kumar International Journal of Ambient Energy, 1-7	2019
2.	Tolerance allocation of complex assembly with nominal dimension selection using Artificial Bee Colony algorithm D Vignesh Kumar, D Ravindran, N Lenin, M Siva Kumar Proceedings of the Institution of Mechanical Engineers, Part C: Journal of ...	2019
3.	Effect of Mechanical and Metallurgical Analysis of Magnesium and Aluminium Alloys Using Diffusion Bonding RJGR Nimal, M Sivakumar, SA Vendan, G Esakkimuthu Advanced Manufacturing and Materials Science, 395-401	2018
4.	Experimental investigation on the suitability of ozonated electrolyte in travelling-wire electrochemical machining M Kalaimathi, G Venkatachalam, M Sivakumar, S Ayyappan Journal of the Brazilian Society of Mechanical Sciences and Engineering 39 ...	2017
5.	Optimization of power coefficient of wind turbine using genetic algorithm S Rajakumar, D Ravindran, M Sivakumar, G Venkatachalam, ... Journal of The Institution of Engineers (India): Series C 98 (2), 111-118	2017
6.	Optimum tolerance synthesis of simple assemblies with nominal dimension selection using genetic algorithm D Vignesh Kumar, D Ravindran, M Siva Kumar, MN Islam Proceedings of the Institution of Mechanical Engineers, Part C: Journal of ...	2016
7.	Studies on diffusion bonding of AA7075 aluminium alloy and AZ80 magnesium alloy RJGR Nimal, MS Kumar, G Esakkimuthu Int J Adv Engg Tech/Vol. VII/Issue II/April-June 1061, 1062	2016
8.	Detection and Recognition of Road Traffic Signs DA Kumar, R Mahesh, D Nirmal, MS Kumar Automation and Autonomous System 8 (6), 179-183	2016
9.	Novel Shrinkage Thresholding Technique using Sparsity with Minimization Regularization	2016

	NK Devi, SS Kumar Asian Journal of Research in Social Sciences and Humanities 6 (12), 592-602	
10.	Diplodia mutila as a new pathogen on water hyacinth Eichhornia crassipes in Harike wetland B Singh, S Saxena, V Meshram, M Kumar Journal of Biopesticides 9 (2), 180-188	2016
11.	A hybrid formulation for fractional model of Toda Lattice equations by using Laplace Transform S Kumar, A Kumar, VK Srivastava, P Agarwal Under Review	2016
12.	Prenatal developmental toxicity study of n-heneicosane in Wistar rats P Kumar, V Lomash, PC Jatav, A Kumar, SC Pant Toxicology and industrial health 32 (1), 118-125	2016
13.	The comparative study on diesel and photovoltaic water pumping system for different crops P Wilson, TA Srinivas, MS Kumar Journal of Chemical and Pharmaceutical Sciences 9 (3)	2016
14.	Oral hygiene levels in children of tribal population of Eastern Ghats: An epidemiological study PK Raju, D Vasanti, JR Kumar, K Niranjani, MSS Kumar Journal of international oral health: JIOH 7 (7), 108	2015
15.	Electronic properties of excess <i>Cr</i> at <i>Fe</i> site in <i>FeCr_{0.02}Se</i> alloy S Kumar, PP Singh AIP Conference Proceedings 1665 (1), 090031	2015
16.	Interplay of structural, optical and magnetic properties in Gd doped CeO ₂ S Soni, S Kumar, RS Meena, VS Vats, S Dalela AIP Conference Proceedings 1665 (1), 130029	2015
17.	Converse magnetoelectric effect in Pb(In _{1/2} Nb _{1/2})O ₃ -PbTiO ₃ /NiFe ₂ O ₄ laminate composite SD Kumar, G Ramesh, V Subramanian AIP Conference Proceedings 1665 (1), 140049	2015
18.	A dual three-leg VSI based DSTATCOM in three-phase four-wire distribution systems MVM Kumar, MK Mishra, C Kumar Power Electronics for Distributed Generation Systems (PEDG), 2015 IEEE 6th ...	2015
19.	Enhanced utilization of grid-connected inverter C Kumar, MK Mishra, MVM Kumar Power Electronics for Distributed Generation Systems (PEDG), 2015 IEEE 6th ...	2015
20.	An experimental set up for studying the fusion edge plasma facing materials using TOF mass spectrometry S Kumar, P Bhatt, BK Singh, A Kumar, R Shanker	2015

	International Journal of Mass Spectrometry 385, 32-41	
21.	Role of brainstem auditory evoked potential in Forensic Medicine A Thind, R Singh, KD Singh, A Kumar, AS Thind International Journal of Ethics, Trauma & Victimology 1 (1), 14-17	2015
22.	Correlation Of High Sensitivity C-Reactive Protein And Soluble Triggering Receptor Expressed On Myeloid Cells-1 With Disease Severity In Chronic Obstructive Pulmonary Disease P Bhadoria, P Sharma, A Kumar, DP Bhadoria, S Kumar, P Lali, A Arora, ... B31. INFLAMMATION AND COPD, A2741-A2741	2015
23.	Inhibition of Interleukin 10 receptor signaling induces microbiota-dependent chronic colitis in Apolipoprotein E deficient mice (MUC5P. 754) B San Yeoh, M Kumar, V Singh, M Kennett, M Vijay-Kumar The Journal of Immunology 194 (1 Supplement), 138.12-138.12	2015
24.	Design and Simulation of a L and U-Shaped Slot Compact Planar Monopole Antenna AG Reddy, KG Kumar, GK Teja, T Kartheek, GL Chandra International Journal of Science, Engineering and Technology 3 (3), 535-538	2015
25.	Accelerated sarcopenia as an initial manifestation of Cushing's disease L Pichaipillai, M Kumar, S Pathmanathan, D Tiong, C Higham BioScientifica	2015
26.	The use of intermittent 7.5 mg tolvaptan on an out-patient basis for SIADH: a retrospective audit from a tertiary cancer hospital M Kumar, L Pichaipillai, P Trainer, C Higham BioScientifica	2015
27.	Study of magnetic behavior in ball-milled nanocrystalline Fe-50 at.% Al alloy as a function of milling time S Rajan, R Shukla, A Kumar, A Vyas, R Brajpuriya Modern Physics Letters B 29 (10), 1550036	2015
28.	WORLD JOURNAL OF PHARMACEUTICAL RESEARCH T Mangilal, KSKR Patnaik, MS Kumar, L Thirupathi, I Nagaraju, PV Kumar	2015
29.	Mössbauer and magnetization studies of mechanically milled nanocrystalline Fe _{1-x} Al _x alloys S Rajan, R Shukla, A Kumar, A Vyas, S Khan, R Brajpuriya Canadian Journal of Physics 93 (11), 1257-1263	2015
30.	Sensorless Sliding Mode Control of Induction Machine Based On SVPWM RS Kumar, PP Kumar International Journal of Emerging Trends in Science and Technology 2 (04)	2015
31.	PATTERN OF NON-COMMUNICABLE DISEASES IN PATIENTS ATTENDING MEDICINE OPD AT A TERTIARY CARE HOSPITAL OF RANCHI, JHARKHAND M Kujur, A Kiran, M Kumar JOURNAL OF EVOLUTION OF MEDICAL AND DENTAL SCIENCES-JEMDS 4 (27), 4676-4681	2015

32.	IMAGING IN TRAUMATIC DIAPHRAGMATIC RUPTURE-A DIAGNOSTIC DILEMMA BM Skandesh, A Prakash, S Shetty, DP Kumar International Journal of Current Research and Review 7 (7), 45	2015
33.	Analysis of DSTATCOM for PV Based Micro Grid MM Ningonda, MKS Mann, MN Kumar power 4 (4)	2015
34.	Priming effect in agricultural and forest soils depending on glucose level and N addition T Splettstoesser, A Kumar, Y Sun EGU General Assembly Conference Abstracts 17, 15204	2015
35.	Endometrial assessment: a co-relation between invasive and non-invasive parameters C Shekhar, TK Cherian, A Kumar Bjog: An International Journal of Obstetrics and Gynaecology 122, 43-44	2015
36.	Su1082 Changing Trends in the Characteristics of Gastroenterology Clinical Trials: 2000-2014 A Sinha, R Anand, S Hasan, A Kumar, S Dutta Gastroenterology 148 (4), S-403	2015
37.	Effect of thermal pretreatment on dairy sludge for the production of biogas by anaerobic biodegradability assay method DA Kumar, RTS Kumar International Journal of Management, IT and Engineering 5 (4), 398	2015
38.	Development and characterisation of nine polymorphic microsatellite markers for Tephrosia calophylla Bedd.(Fabaceae) NR Parine, P Lakshmi, D Kumar, JP Shaik, M Alanazi, AAK Pathan Saudi journal of biological sciences 22 (2), 164-167	2015
39.	Development of bivoltine silkworm breeds of Bombyx mori L with reference to cocoon filament characters K Kumar Mysore	2015
40.	Security for Bluetooth enabled devices using BlipTrack Bluetooth detector M Kumar, BK Gupta Computer Engineering and Applications (ICACEA), 2015 International ...	2015
41.	VALIDATED STABILITY INDICATING RP-HPLC METHOD FOR SIMULTANEOUS ESTIMATION OF FURAZOLIDONE AND METRONIDAZOLE IN COMBINED PHARMACEUTICAL DOSAGE FORMS MS Kumar, A Anjaneyulu, T Mangilal, TV Kumari, T Kavitha	2015
42.	Implementation and performance comparison of five DSP-based control methods for three-phase six-switch boost PFC rectifier L Huber, M Kumar, MM Jovanović Applied Power Electronics Conference and Exposition (APEC), 2015 IEEE,	2015

	101-108	
43.	Phylogenetic analysis and molecular modeling of wheat pathogenesis-related proteins: Serpin and Peroxidase AK Mishra, S Rastogi, S Kumar, O Chakraborty, A Kumar Computing for Sustainable Global Development (INDIACom), 2015 2nd ...	2015
44.	Clock domain crossing aware sequential clock gating J Liu, MS Hong, K Do, JY Choi, J Park, M Kumar, M Kumar, N Tripathi, ... Proceedings of the 2015 Design, Automation & Test in Europe Conference ...	2015
45.	Assessment of autonomic nervous system by analysis of heart rate variability for various addictive and life style modifying disorders M Kumar Bengaluru	2015
46.	Advanced pulse width modulation techniques for Z source multi level inverter BM Manjunatha, DV Ashok Kumar, M Vijay Kumar World Acad Sci Eng Technol Int Sci Index 99, 337-342	2015
47.	INCREASED SERUM NITRITE AND NITRATE LEVELS IN AMPHOTERICIN-B ADMINISTERED ALBINO RATS A Kumar Innoriginal: International Journal Of Sciences	2015
48.	Role Of Alkalinization In Enhancing Efficacy Of The Local Anesthetic-A Clinical Study. M Kumar, R Batra, S Chopra, G Verma, A Aggarwal, A Garg Indian Journal of Dental Sciences 7 (1)	2015
49.	Subsidence Monitoring at forest area above the underground working within mining lease of UCIL Jaduguda D Kumar, P Sen, DC Panigrahi, SS Kumar	2015
50.	Effective role of Newspapers in Health and Environment Communication in Himalayan Terrain: A case study of six newspapers published from Uttarakhand M Kumar, AR Dangwal International Journal of Research 2 (2), 501-509	2015
51.	PFC Cuk Converter Based PMBLDCM Drive for Air-Conditioners MS KUMAR, GV SAGAR, CS REDDY	2015
52.	A unified approach to decision-theoretic properties of the MLEs for the mean directions of several Langevin distributions S Kumar, A SenGupta Journal of Multivariate Analysis 133, 160-172	2015
53.	Zinc is the molecular "switch" that controls the catalytic cycle of bacterial leucyl-tRNA synthetase M Kumar, SAP Kumar, A Dimkovikj, LN Baykal, MJ Banton, MM Outlaw, ... Journal of inorganic biochemistry 142, 59-67	2015
54.	Priority with adoptive data migration in case of disaster using cloud computing use style	2015

	A Kumar, S Mishra, A Mishra Communication, Information & Computing Technology (ICCICT), 2015 ...	
55.	STUDIES ON MECHANICAL AND METALLOGRAPHIC ASPECTS OF DIFFUSION BONDING OF AA7075 ALUMINIUM ALLOY AND AZ80 MAGNESIUM ALLOY RJGR Nimal, MS Kumar, SA Vendan, GE Muthu, C Thangam The Annals of" Dunarea de Jos" University of Galati. Fascicle XII: Welding ...	2015
56.	Evidences Indicating the Involvement of Selection Mechanisms for the Occurrence of C VK Prajapati, SS Satapathy, MVS Kumar, A Kumar	2015
57.	Diagnosis delayed but not denied--Sheehan's syndrome. V Thyagaraj, MJ Vinod Kumar Journal of the Nepal Medical Association 53 (197)	2015
58.	Effect of Cr on Grain Refinement and Mechanical Properties of Al-Si-Mg Alloys A Kumar, G Sharma, C Sasikumar, S Shamim, H Singh Applied Mechanics and Materials 789, 95-99	2015
59.	Auto Selection of Any Available Phase in 3 Phase Supply System S Kumar, V Kumar, S Prasad, V Jain, T Kumar, A Kumar Automation and Autonomous System 7 (5), 138-141	2015
60.	Fatigue life prediction: A comparative study for a three layer EN45A parabolic leaf spring K Kumar, M Aggarwal Engineering Solid Mechanics 3 (3), 157-166	2015
61.	Finite element analysis and optimization of a mono parabolic leaf spring using CAE software K Kumar, M Aggarwal Engineering Solid Mechanics 3 (2), 85-92	2015