

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

I **Dr. S.P. Sivapirakasam** did my graduation in Mechanical Engineering from Bharathidasan University, Trichy in the year 1996 and Masters Degree in Industrial Safety Engineering from Regional Engineering College, Trichy in the year 1997. I have completed my Doctoral research at the Center Leather Research Institute (CLRI), Chennai in the area of Mechanical and thermal sensitiveness of energetic materials from Anna University, Chennai during the year 2007.

I started my career as a junior manager (Safety) at the Steel Authority of India Ltd. (SAIL), Durgapur Steel Plant (West Bengal). For the first time, I successfully initiated and implemented a Safety Steward Scheme at Durgapur Steel Plant, which was a remarkable contribution to SAIL. After two and a half years of Industrial Experience, I joined as a lecturer at the J.J. College of Engineering and Technology, Trichy during the year 2000 and later worked at the Mepco Schlenk Engineering College, Sivakasi from the year 2001 to 2007. It was during this period, I was a programme coordinator for the TIFAC-CENTRE OF RELEVANCE AND EXCELLENCE (CORE) in Industrial Safety, a sponsored project for Rs. 3 Crores sanctioned by the Department of Science and Technology (DST), Government of India.

In the April 2007, I joined the National Institute of Technology (NIT), Trichy as an Assistant Professor in the Department of Mechanical Engineering and Re-designated as an Associate Professor during the year 2010. Also I served as the Associate Dean (Administration) at NIT, Trichy during 2009 and 2010. I published about 50 publications in peer reviewed International Journals and 40 in International conferences. For the first time in the Department of Mechanical Engineering, NIT Trichy, As one of the conveners I have organized an International conference IMEC-2014 (International Mechanical Engineering Congress-2014) which has attracted about 750 participants within India and abroad.

I have completed a sponsored research project from MINISTRY OF ENVIRONMENT AND FOREST (MOEF) to the value of Rs.18 Lakhs for the monitoring

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and controlling of EDM emissions. Presently I am the principal investigator of below mentioned projects namely

1. IGCAR sponsored consultancy project titled "Analysis of welding fumes for the consumables used in the fabrication of nuclear components" amounting to 19 Lakhs.
2. DRDO/ARMREB sponsored project on "Experimental Investigation of Impact Initiation of Sound Light emitting Pyrotechnic Composition" which is having a fund of 33 Lakhs.
3. LPSC/ISRO funded project titled "Specific Electrical Conductivity of Kerosene Based Fuels" which have a funding amount of 10 Lakhs.

Also I have delivered Expert lecture on Safety, Health and Environment in many forums organized by different academic institutions and industries in and outside the country. For the past six years, I am conducting safety training programmes at Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam for Scientists, Executives and workers on a regular basis. My areas of interest are

- i. Safety in processing of Energetic Materials
- ii. Green manufacturing
- iii. Emission Analysis
- iv. Human body Vibration and Ergonomics
- v. Design of Experiments

1. Name: Dr. S. P. SIVAPIRAKASAM

2. Designation: Associate Professor

3. Office Address: Department of Mechanical Engineering

4. Extn (Optional): -

Mobile (Optional): 9944547215

5. Email (Primary): spshivam@nitt.edu Email (Secondary) : spsivam@yahoo.com

6. Field(s) of Specialization: Industrial Safety Engineering

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7. Employment Profile

Job Title	Employer	From	To
Junior Manager	Steel Authority of India Limited	31.03.1998	13.09.2000
Lecturer	J.J College of Engineering and Technology, Trichy	27.09.2000	29.06.2001
Lecturer and Programme coordinator for TIFAC-CORE in Industrial Safety	Mepco Schlenk Engineering College, Sivakasi	04.07.2001	16.04.2007
Assistant Professor	NIT Trichy	30.04.2007	30.04.2010
Associate Professor	NIT Trichy	30.04.2010	Till Date

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	Anna University	2007	NA	Mechanical Sensitiveness and Thermokinetics of Pyrotechnic Flash Composition
M.Tech	REC Trichy	1997	First Class	Industrial Safety Engineering
B.E	Bharathidasan University	1996	First Class	Mechanical Engineering
12th	Board of Higher Secondary Examination,	1992	First Class	Mathematics and Science
10th	Board of Anglo Indian School	1990	First Class	Mathematics and Science

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Associate Dean	Administration/Faculty Welfare	24.07.2009	15.09.2010
Security Service Committee	Institution	18.03.2008	24.07.2009
Secretary of Security arrangements committee in connection with fifth convocation	Institution	22.08.2009	
Member of Discipline, Security, Hall Management committee	Institution	17.09.2009	21.09.2009
Class Committee chairman for V Semester B.Tech. Mechanical Engg	Department	2009	2010
Member Outsourcing Security Services	Institution	10.12.2010	
Budget Committee Member of Mechanical Engineering Department	Institution	2010	2011
Member of special task force for centre of excellence in corrosion and surface engineering	Institution	12.10.2011	
Member of the Department NBA committee	Department	2013	2014
Member of Ph.D Admission Committee	Institution	Jan 2012	
Member coordinator - NBA committee for M.Tech (ISE)	Department	2016	2017
HOD in-charge for the Twelfth convocation 2016	Department	30.07.2016	

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10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
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11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2011	Expert member (Industrial Safety and Health) of the state crisis group in the union territory of Pondicherry issued by the Chief Secretariat (Environment),	Govt of Pondicherry Ref. No. 10/2011/ Env. Dated 13.01.2011.
2009	Expert member for conducting safety audits and risk assessment in MAH (Major Accident Hazard) factories in Tiruchirappalli district.	State Government of Tamilnadu

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
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13. Details of Academic Work

(i) Curriculum Development

- Introduced a course on Computer aided risk analysis for the PG Program M.Tech (ISE).
- Established a Safety Engineering Laboratory for the M.Tech (Industrial Safety Engineering) students and it has been included for the first time in the curriculum of M.Tech (ISE). The following facilities are established in the safety engineering laboratory:
 1. BAM Friction Tester.
 2. Impact Sensitiveness test equipment.
 3. High Volume Sampler.
 4. Vibration Monitor for human exposure.
 5. Personal Sampler.
 6. Demo Models on personal protective equipment.
 7. Simultaneous DSC/TGA for Thermal Analysis.

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(ii) Courses taught at Postgraduate and Undergraduate levels

Subjects taken with the feedback score:

- BME E06 - Industrial Safety – 8.69/10 (2007)
- ME 653 - Safety Management – 9.55/10 (2007)
- ME652- Computer aided risk analysis - 8.94/10(2008)
- ME653 - Safety Management – 9.2/10 (2008)
- ME654- Regulation for Health, Safety and Environment – 9.3/10
- ME453 – Industrial Safety – 9.37/10 (2008)
- ME453 – Industrial Safety – 9/10 (2009)
- ME655- Occupational Health And Hygiene – 9.6/10 (2009)
- ME652- Computer aided risk analysis - 9.4/10(2009)
- ME653 - Safety Management – 9.2/10 (2009)
- ME453 – Industrial Safety – 8.26/10 (2011)
- ME652 - Computer Aided Risk Analysis - 9.8/10 (2012)
- ME 671 - Environmental Pollution Control - 9.6/10 (2012)
- BEII102-Basics of Mechanical Engineering - 9 /10 (2013)
- ME 652 - Computer Aided Risk Analysis - 9.6/10 (2013)
- ME653 - Safety Management - 8.9/10 (2013)
- BEII102-Basics of Mechanical Engineering - 8.6 /10 (2014)
- ME 652 - Computer Aided Risk Analysis - 9.6/10 (2014)
- MEIR12-Engineering graphics- (2015)
- ME653 - Safety Management - (2015)
- ME 652 - Computer Aided Risk Analysis- (2015)
- MEPC 15-Production Technology-I-(2016)
- ME653 - Safety Management - (2016)

(iii) Projects guided at Postgraduate level.

Sl.No	Roll No	Name	Title	Year
1.	211207012	Gutta Hari Krishna	Optimization of Electric Discharge machining process using analytical hierarchy process	Dec'2008
2.	211207009	K.Renjith	Modeling of emissions from die sinking electrical discharge machining process	May 2009
3.	211207008	Badulla Upendra	Assessment of welding fumes and gases during GMAW process	May 2009
4.	211207012	Gutta Hari Krishna	Characterization of waste generated from electric discharge machining(EDM) process	May 2009

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5.	211207011	P.Sankar	Biomechanical aspects of whole body vibration in industrial sectors	Jun'2009
6.	211208002	G.Raju	Job safety analysis for different types of activities at construction sites	Dec'2009
7.	211208024	Joe Sam Abraham	Evaluation of aerosols in atmosphere evolved due to welding process using high volume sampler	Dec'2009
8.	211208006	P.S.Sarath	Quantitative assessment of chlorine release by GIS	Dec'2009
9.	211208018	K.Shajahan	Design of dilution tunnel system for particulate matter measurement from diesel engine emission	Dec'2009
10.	211208027	Kaliki.harsha vardhan	Risk assessment in plants producing and storing explosives	Dec'2009
11.	211208001	Vino joseph Varghese	Edm fume extraction system design and modeling	Dec'2009
12.	211208010	v.n.maheswara rao pitani	A model for prediction of fumes formation rate in gas metal arc welding	Dec'2009
13.	211208018	K.Shajahan	Particulate matter analysis of biodiesel on diesel fueled engine	May 2010
14.	211208025	Narappa reddy siva sowmiya	Modeling and interfacing of EDM fume extraction system using fuzzy logic and DAQ	May 2010
15.	211208024	Joe Sam Abraham	Comparison of different modeling techniques to Evaluate atmospheric respiration of pollutants with field experiments of chlorine dispersion	May 2010
16.	211208002	G.Raju	Analysis of musculo skeletal disorders in crane operators and ergonomics interventions	May 2010
17.	211208010	V.N.Maheswara Rao Pitani	Development of a welding fume test chamber and determination of total fume concentrations during SMAW &	May 2010

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			GMAW	
18.	211208019	Venkata Narayana Paloji	The dependence of impact sensitivity of pyrotechnic mixtures on impact surface material and its surface roughness	May 2010
19.	211208001	Vino joseph Varghese	Comparative study of effect of dielectric medium in the EDM process	May 2010
20.	211208027	Harsha Vardhan Kaliki	The dependence of friction sensitivity of pyrotechnic mixtures on rubbing surface material and its surface roughness	May 2010
21.	211209011	Abdul shabaz khan	Finite element modeling of surface temperature generated from sliding during friction and its influence on friction sensitivity	Dec'2010
22.	211209017	Ravi kumar perneti	Characterization of hydrocarbons generated from electric discharge machining(EDM) process on aluminium workpiece and copper tool	Dec'2010
23.	211209023	G.shiva sai Prasad	Modeling and interfacing of EDM fumes extraction systems using fuzzy logic	Dec'2010
24.	211209031	Nookala sreehari	Study on mechanical sensitivity of flash composition influenced by moisture	Dec'2010
25.	211209020	Anagandula Anil	Friction sensitivity studies of match head compositions with different materials by varying surface roughness and hardness	Dec'2010
26.	211209027	L.S.V.K.S.Murthy	Impact sensitivity studies of match head compositions with different materials by varying surface roughness and hardness	Dec'2010
27.	211209017	Ravi kumar perneti	Evaluation of EDM emissions for XW42 steel with graphite electrode	May 2011

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28.	211209023	G.shiva sai Prasad	Automatic fume extraction system using Micro controller in EDM	May 2011
29.	211209011	Abdul shabaz khan	Experimental investigation on friction sensitivity of matchhead composition by varying surrounding temperature	May 2011
30.	211209031	Nookala sreehari	Study on mechanical sensitivity of flash composition influenced by moisture content	May 2011
31.	211209027	L.S.V.K.S.Murthy	Measurement of ignition time and the critical load for impact initiation of match head composition	May 2011
32.	211210014	S.Sudalaimani	Hazards evaluation in natural stone production industries	Dec'2011
33.	211210015	S.Aravindraaj	Evaluation of total fume concentration from electrical discharge machining(EDM) process at different workpiece tool and dielectric fluid using taguchi method	Dec'2011
34.	211210006	Raj Krishna M.R.	Thermal Characterisation of match head composition using differential scanning calorimeter,Thermo gravimetric analyser and accelerated rate calorimeter	Dec'2011
35.	211210007	C.Deepak Kumar	Experimental Investigation on Friction Sensitivity of Match Head Composition Influenced by Hardness of Contact Materials	Dec'2011
36.	211210008	KHSS Phanindra	Experimental Investigation and impact sensitiveness of matchhead composition by varying hardness	
36.	211211006	Bimith Mathew	Experimental Investigation of Fumes Evolved During Flux Core Arc Welding: A Case Study Of Nuclear Industry	Dec'2012
37.	211211001	Iype Varghese	Fire Safety Audit of Academic	Dec'2012

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			Buildings of NIT, Trichy	
38.	211209020	Anagandula Anil	Assessment of Exposure to Chemical Agents in Welding fumes of Supercritical Boiler System Materials	Dec'2012
39.	211209033	G. V.Vasantha	Effects of Blast in a High Explosive Magazine	Dec'2012
40.	211211006	Bimith Mathew	Effect of nano alumina coatings on welding fumes	May 2013
41.	211211001	Iype Varghese	Study on the Effect of Ammonium Nitrate Particle size on thermal stability of ANFO Mixture	May 2013
42.	211312034	Mane Yogesh Ganeshrao	Kinetics and Performance Evaluation of Biodiesel	May 2014
43.		Bineesh P.	Effect of nano TiO ₂ coating of Electrodes on welding fumes	Dec' 2013
44.		Dharmendra M.		Dec' 2013
45.		Bineesh P.	Effect of nano coating of electrodes on the hexavalent chromium emitted from welding	May 2014
46.		Dharmendra M.	A Model to Predict Fume Formation Rate from Manual Metal Arc Welding Process	May 2014
47.		Chinmaykumar Sahoo	Computer Aided Simulation of Airbag systems using LS-Dyna	May 2015

(iv) Other contribution(s)

- A lead auditor for conducting EMS audit on ISO 14001 (IRCA certified).

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14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Modeling of Environmental Emission and Design and Development of Fuzzy controlled Fume Extraction System for Electric Discharge Machining Process	Ministry of Environment and Forest, Government of India	2010	2013	Completed
Design of Experimental matrix for Heat Transfer Studies at Super critical test Facility	BHEL, Trichy	Jan 2012	Apr 2012	Completed
Technical Procedure for the Welding process of Wornout Pelton turbine blade	Saravana Industries Ltd, Trichy	2012	2012	Completed
Technical Procedure for the Welding process of Wornout Kaplan turbine blade	Saravana Industries Ltd, Trichy	2012	2012	Completed
Analysis of Welding fumes for Consumables used in fabrication of Nuclear components	IGCAR	May2014	May 2017	Ongoing
Experimental Investigation of Impact Initiation of Sound Light emitting Pyrotechnic Composition	ARMREB, DRDO	Feb 2016	Feb 2019	Ongoing
Specific Electrical Conductivity of Kerosene Based Fuels	LPSC, ISRO	Oct 2016	Oct 2017	Ongoing

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15. Number of PhDs guided - 7 nos.

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
M. Pandian	Experimental Investigation on CI engine fuelled with pongamia biodiesel-Diesel blend employing different NO _x reduction strategies	Supervisor	2011
Jose Mathew	Experimental Investigation and modeling of Electrical Discharge Machining process Emissions	Supervisor	2011
M. Mohamed Mustafa	Effects of Biodiesel in fly ash and alumina coated Low heat rejection Diesel Engine on performance and emission characteristics.	Supervisor	2011
M.S. Alphin	Some studies in hand transmitted and whole body vibration on tracked excavator with breake	Co-Supervisor	2012
M. Nalla Mohamed	Experimental Investigation and Numerical Modeling on Mechanical Initiation of Matchhead composition for	Supervisor	2013

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	different in-process contact materials.		
Sreejith Mohan	Investigations on Fume Reduction from SMAW process using Nano-Alumina and Nano-Titania coated Electrodes	Supervisor	2015
S. Thiagarajan	Investigations on the effect of different electrode materials and Dielectric fluids on EDM Emissions.	Supervisor	2016

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

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
16.07.2007-18.07.2007	Accident Investigation	National	Participant	Indian Institute of Chemical Technology and Human Resources Development Centre	Hyderabad
04.10.2007-06.10.2007	Application of Design of Experiments	National	Participant	SAE India	College of Engineering, Guindy, Chennai
03.11.2007-05.11.2007	Break Thru; Empower Yourself	National	Participant	TEQIP	Chennai
10.12.2007-14.12.2007	Energy Conservation Measures For Manufacturing And Process Industries	National	Participant	NIT Trichy	Trichy

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27.02.2008	Specialized Training on Safe Handling of Petroleum Products	National	Participant	IOCL	Nagapattinam
10.03.2008-14.03.2008	Lead Auditor Training on ISO14001:2004	National	Participant	TUV India Pvt. Ltd., Mumbai	Dept of Mechanical Engg, NIT, Trichy
24.04.2008-25.04.2008	Energetic Materials and their Applications	International	Participant		Tokyo, Japan
13.07.2009-24.07.2009	Faculty development programme on Composite Materials: Processing Challenges And Opportunities	National	Participant	AICTE-MHRD, Dept of Production Engineering	NIT Trichy
03.08.2009-05.08.2009	International Conference on Advances in Mechanical Engineering (ICAME-2009)	International	Participant	Department Of Mechanical Engineering, Sardar Vallabhai National Institute of Technology, Surat	Surat
16.09.2011-18.09.2011	International Conference of Manufacturing Science and Technology (ICMST 2011)	International	Participant		Singapore
19.01.2012-22.01.2012	International symposium on joining of material(SOJOM-2012)	International	Participant	BHEL Trichy	Trichy
03.02.2014-04.02.2014	National workshop on Supercritical technology for power sector	National	Participant	Management and Technology Division	Hyderabad
09.11.2012-15.05.2012	International conference on “ Mechanical Engineering	International	Participant	Houston, Texas	USA

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	Congress & Exposition				
09.05.2013-10.05.2013	International Conference (ICARMAEC - 13)	International	Participant		Pattaya, Thailand
05.04.2016-08.09.2016	EMN Meeting on Microfluidics and Nanofluidics 2016	International	Paper Presenter	New York university,	Abu Dhabi, UAE
20.4.2016-22.04.2016	Safety Instrumented systems workshop	National	Participant	Cholamandalam safety academy	Mumbai

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
TEQIP Sponsored Two Day Workshop on Design of Experiment for Beginners and Researchers	National	19.12.2007-20.12.2007	Organizer	NIT Trichy
AICTE-MHRD sponsored Faculty Development Program on Recent Advances in Modeling and Simulation of Joining of Materials	National	29.12.2008-10.01.2009	Organizer	NIT Trichy
AICTE-MHRD sponsored Staff Development Program on Quantitative Research Techniques for Engineers and Researchers	National	21.12.2009-02.01.2010	Organizer	NIT Trichy
Self Financed Short term course on Quantitative Research Techniques and Tools for Engineers and Researchers	National	10.06.2013-14.06.2013	Organizer	NIT Trichy
Training Programme on	National	04.02.2014-	Organizer	NIT Trichy

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OSHAS 18001:2007 organized by Bureau VERITAS Certification, India pvt Ltd, Mumbai		08.02.2014		
International Mechanical Engineering Congress, IMEC 2014	International	13.06.2014-15.06.2014	Organizer	NIT Trichy
Two Day Self-financed course on Advancement in Industrial Safety Engineering	National	29.09.2014-30.09.2014	Organizer	NIT Trichy
TEQIP sponsored Six days workshop on Recent trends in Industrial safety Engineering	National	12.09.2016-17.09.2016	Organizer	NIT Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
IGCAR sponsored safety training programme at Kalpakkam	16.07.2009-19.07.2009	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	25.07.2009-26.07.2009	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	24.08.2009-25.08.2009	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	10.12.2009-11.12.2009	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	29.06.2010-02.07.2010	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	28.12.2010-31.12.2010	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	28.06.2011-30.06.2011	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	20.12.2011-23.12.2011	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	19.06.2012-22.06.2012	IGCAR, Kalpakkam

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Kalpakkam		
IGCAR sponsored safety training programme at Kalpakkam	11.09.2012-14.12.2012	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	04.12.2012-05.12.2012	IGCAR, Kalpakkam
Fascinating Advancement in Research Methodology and D.O.E. Hands on Training	08.03.2013 to 09.03.2013	Mar Ephraem College of Engineering and Technology, Marthandam
Environment, health and safety	14.03.2013	Knowledge Insitute of Technology, Salem.
Industrial Safety, Health and Environment	15.03.2013 to 16.03.2013	Dr. Navalar Nedunchezhiyan College of Engineering, Tholudur
IGCAR sponsored safety training programme at Kalpakkam	10.06.2013 to 14.06.2013	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	02.07.2013 to 05.07.2013	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	21.08.2013 to 23.08.2013	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	01.09.2014 to 04.09.2014	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	04.02.2014 to 08.02.2014	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	13.06.2014 to 15.06.2014	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	29.09.2014 to 30.09.2014	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	22.06.2015 to 25.06.2015	IGCAR, Kalpakkam
Invited Lecture on Design of experiments	22.01. 2016	Vimal Jyothi Engineering College, Chemperi, Kannur, Kerala
Invited lecture on Design of experiments	17-02-2016	Anjalai Ammal Mahalingam Engineering college, Kovilvenni, Tanjore.

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IGCAR sponsored safety training programme at Kalpakkam	22.08.2016 to 25.08.2016	IGCAR, Kalpakkam
IGCAR sponsored safety training programme at Kalpakkam	18.10.2016 to 21.10.2016	IGCAR, Kalpakkam

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	The Indian Society for Technical Education	Life Member (2002)
Life Member	Indian Institute of Chemical Engineers	Life Member (2002)
Member	The Institution of Engineers	2009

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Japan	2 days	International Conference on Energetic Materials and their Applications 2008
Singapore	3 Days	International Conference on Manufacturing Science and Technology 2011
USA	7 days	International conference on “ Mechanical Engineering Congress & Exposition 2012
Thailand	2 days	International Conference (ICARMAEC - 13)
UAE	4 Days	EMN Meeting on Microfluidics and Nanofluidics 2016

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21. Publications

(A) Refereed Research Journals:

Journal Publications -50 Nos.

S.No	Author	Title	Journal	Volume	Page No	Year
1	SP Sivapirakasam, Sreejith Mohan, MCS Kumar, M Surianarayanan	Welding fume reduction by nano- alumina coating on electrodes-towards green welding process	Journal of Cleaner Production	108	131-144	2015
2	Sreejith Mohan, SP Sivapirakasam, MCS Kumar, M Surianarayanan	Welding fumes reduction by coating of nano- TiO ₂ on electrodes	Journal of Materials Processing Technology	219	237-247	2015
3	Sreejith Mohan, SP Sivapirakasam, MC Santhosh Kumar, M Surianarayanan	Application of Taguchi method in the optimization of process parameters for a sol-gel- derived nano- alumina film	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials Design and Applications	0(0)	1-12	2015
4	S Thiyagarajan, SP Sivapirakasam, J Mathew, M Surianarayanan	Influence of workpiece materials on aerosol emission from die sinking electrical discharge machining process	Process Safety and Environment al Protection	92 (6)	739-749	2014
5	KR Balasubramanian, SP Sivapirakasam, J Mathew	Analysis of Chemical Degradative Effects on Low Voltage PVC Insulation using DSC.	Applied Mechanics & Materials	592-594	2475- 2480	2014

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6	Sreejith Mohan, SP Sivapirakasam, P Bineesh, KK Satpathy	Strategies for Controlling Welding Fumes at the Source-A Review.	Applied Mechanics & Materials	592-594	2539-2545	2014
7	SP Sivapirakasam, N Nalla Mohamed, M Surianarayanan	Experimental Diagnosis on Frictional Initiation of a Match Head Composition at Different Contact Materials	Propellants, Explosives, Pyrotechnics	39 (1)	125-132	2014
8	N Sozhan, T Senthilvelan, T Kaliyappan, EV Rapaka, SP Sivapirakasam	Experimental Investigations on a 1.00 m ² Solar Gel Pond	Applied Mechanics and Materials	592	2360-2364	2014
9	SP Sivapirakasham, AA Khan, MG Yogesh, R Anand	Microcalorimetry and Kinetics of Biodiesel	Applied Mechanics and Materials	592	1647-1651	2014
10	MR Jaganmohan, SP Sivapirakasham, KR Balasubramanian	Investigation of Whole Body Vibration on Urban Midi Bus	Applied Mechanics and Materials	592	2066-2070	2014
11	SP Sivapirakasham, S Thiyagarajan, P Bineesh, J Mathew	Hazard Identification in Electrical Discharge Machining (EDM) Process Using What-If Analysis	Applied Mechanics and Materials	592	2508-2512	2014
12	KR Balasubramanian, SP Sivapirakasham, NN Korra, K Kumar Dhruw	Study of Posture and Discomfort in Handling Machines in Manufacturing Industry	Applied Mechanics and Materials	592	2552-2556	2014
13	SP Sivapirakasham, S Thiyagarajan, J Mathew, M Surianarayanan, ...	Investigation of Environment and Machining Aspects in Electrical Discharge Machining (EDM) Using Different Workpieces and Tool Electrode	Applied Mechanics and Materials	592	2513-2517	2014

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14	SP Sivapirakasam, M Nalla Mohamed, M Surianarayanan, VP Sridhar	Evaluation of thermal hazards and thermo-kinetic parameters of a matchhead composition by DSC and ARC	Thermochimica Acta	557	13-19	2013
15	Nalla Mohamed, M, SP Sivapirakasam, M Surianarayanan	Investigation on the Friction Sensitivity of a Matchhead Composition Influenced by the Surface Roughness of Contact Materials	Propellants, Explosives, Pyrotechnics	38 (2)	266-272	2013
16	Masilamany Santha Alphin, Krishnaswamy Sankaranarayananasamy, Suthangathan Paramashivan Sivapirakasam	Experimental Investigation To Study the Influence of Handle Diameter on Low-Frequency, Hand–Arm Vertical Vibration	Human Factors and Ergonomics in Manufacturing & Service Industries	23 (2)	140-148	2013
17	SP Sivapirakasam, M Nalla Mohamed, M Surianarayanan	Numerical simulation of impact initiation of a matchhead composition for different in-process contact materials	Combustion and Flame	160 (11)	2573-2584	2013
18	M Nalla Mohamed, SP Sivapirakasam, M Surianarayanan	Experimental investigation on the impact sensitivity of a match head composition influenced by the surface roughness of in-process contact materials	Process Safety and Environmental Protection	91 (5)	343-350	2013
19	SP Sivapirakasam, R Anand, GR Kannan, KR Balasubramanian	Optimization of Biodiesel Production Using RSM and Study of Combustion Characteristics on DI Diesel Engine	ASME 2012 International Mechanical Engineering Congress and Exposition		37-42	2012

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20	KR Balasubramanian, R Anand, B Venkatesh, GR Kannan	Study on Performance and Emission Characteristics of DI Diesel Engine Fuelled With Deccan Hemp Methyl Ester	ASME 2012 International Mechanical Engineering Congress and Exposition		953-957	2012
21	MS Alphin, K Sankaranarayananasamy, SP Sivapirakasam	Segmental vibration transmissibility of seated occupant from lumped parameter models	Journal of Vibration and Control	18 (11)	1683-1689	2012
22	M Sahul Hameed, SP Sivapirakasham, KR Balasubramanian, R Nagalakshmi	Investigations on Fume Formation Rate in Shielded Metal Arc Welding Process Using Different Electrodes	Advanced Materials Research	383	4672-4677	2012
23	M Mohamed Musthafa, SP Sivapirakasam, M Udayakumar	A comparative study of Al ₂ O ₃ coated LHR engine characteristic using rice bran and mahua methyl ester as a fuel	International Journal of Vehicle Design	59 (2/3)	182-195	2012
24	Sivapirakasam S Paramashivan, J Mathew, S Mahadevan	Mathematical modeling of aerosol emission from die sinking electrical discharge machining process	Applied Mathematical Modelling	36 (4)	1493-1503	2012
25	M Mohamed Musthafa, SP Sivapirakasam, M Udayakumar	Effects of Al ₂ O ₃ coating on diesel engine performance, combustion, and emission characteristics fueled by pongamia methyl ester and its blends with diesel	Environmental Progress & Sustainable Energy	31 (1)	147-156	2012
26	S Vethathiri Pakkirisamy, S Mahadeva`n, S P	Adiabatic thermokinetics and process safety of	Journal of thermal analysis and	109 (3)	1387-1395	2012

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	Sivapirakasam	pyrotechnic mixtures: Atom bomb, Chinese, and palm leaf crackers	calorimetry			
27	SP Sivapirakasam, J Mathew, M Surianarayanan	Effect of process parameters on the breathing zone concentration of gaseous hydrocarbons—a study of an electrical discharge machining process	Human and Ecological Risk Assessment: An International Journal	17 (6)	1247-1262	2011
28	SV Pakkirisamy, S Mahadevan, SS Paramashivan, AB Mandal	Adiabatic thermokinetics and process safety of pyrotechnic mixtures: Atom bomb, Chinese, and palm leaf crackers	Journal of Thermal Analysis and Calorimetry	109 (3)	1387-1395	2011
29	SP Sivapirakasam, J Mathew, M Surianarayanan	Constituent analysis of aerosol generated from die sinking electrical discharge machining process	Process Safety and Environmental Protection	89 (2)	141-150	2011
30	Udayakumar. M., M MohamedMusthafa, SP Sivapirakasam	Comparative studies on fly ash coated low heat rejection diesel engine on performance and emission characteristics fueled by rice bran and pongamia methyl ester and their blend with diesel	Energy	36 (5)	2343-2351	2011
31	GR Kannan, KR Balasubramanian, SP Sivapirakasam, R Anand	Studies on biodiesel production and its effect on DI diesel engine performance, emission and combustion	International Journal of Ambient Energy	32 (4)	179-193	2011

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		characteristics				
32	M Pandian, SP Sivapirakasam, M Udayakumar	An experimental investigation on the performance and emission characteristics of a twin cylinder DI compression ignition engine employing bio-diesel blend as fuel at different injection timings and injection pressures	International Journal of Renewable Energy Technology	2 (3)	279-293	2011
33	M Pandian, SP Sivapirakasam, M Udayakumar	Investigations on emission characteristics of the pongamia biodiesel–diesel blend fuelled twin cylinder compression ignition direct injection engine using exhaust gas recirculation methodology and dimethyl carbonate as additive	Journal of Renewable and Sustainable Energy	2 (4)	043110	2010
34	M Jose, SP Sivapirakasam, M Surianarayanan	Analysis of aerosol emission and hazard evaluation of electrical discharge machining (EDM) process	Industrial health	48 (4)	478-486	2010
35	MS Alphin, K Sankaranarayanan, K SP Sivapirakasam	Experimental evaluation of whole body vibration exposure from tracked excavators with hydraulic breaker attachment in rock breaking	Journal of Low Frequency Noise, Vibration and Active Control	29 (2)	101-110	2010

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		operations				
36	SP Sivapirakasam, M Surianarayanan, F Chandrasekaran	Thermal characterization of pyrotechnic flash compositions	Science and Technology of Energetic Materials: journal of the Japan Explosive Society	71 (1)	11-46	2010
37	M Mohamed Musthafa, SP Sivapirakasam, M Udayakumar	A comparative evaluation of Al ₂ O ₃ coated low heat rejection diesel engine performance and emission characteristics using fuel as rice bran and pongamia methyl ester	Journal of Renewable and Sustainable Energy	2 (5)	053105	2010
38	J Mathew, SP Sivapirakasam, M Surianarayanan	Evaluation of occupational exposure to aerosol emitted from die sinking electrical discharge machining process	International Journal of Environment and Health	4 (1)	1-17	2010
39	KR Balasubramanian, K Sankaranarayanan, T Suthakar, SP Sivapirakasam, G Buvanashakaran	Mathematical modelling and optimisation of laser welding of butt joints	International Journal of Computational Materials Science and Surface Engineering	3 (4)	321-335	2010
40	M. Udaya kumar, M Mohamed Musthafa, SP Sivapirakasam	Performance and emission characteristics of LHR CI engine fueled with rice bran oil as Biodiesel	International Journal of Recent Trends in Engineering and Technology	3 (6)	0-25	2010
41	M Mohamed Musthafa, SP Sivapirakasam, M Udayakumar	Experimental investigation on effects of the low heat rejection	Journal of Environmental Research And	4 (3)	-	2010

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		diesel engine running on Jatropha Methyl ester	Development			
42	M Mohamed Musthafa, SP Sivapirakasam, M Udayakumar	Experimental investigation on effects of the low heat rejection diesel engine running on Jatropha methyl ester.	Journal of Environmental Research and Development	4 (3)	811-821	2010
43	SP Sivapirakasam, M Surianirayanan	Experimental investigation of mechanical sensitivity and noise level for different pyrotechnic flash compositions	Science and Technology of Energetic Materials: journal of the Japan Explosive Society	70 (5)	140-144	2009
44	SP Sivapirakasam, M Surianirayanan, G Swaminathan	Accident data analysis and hazard assessment in fireworks manufacture	Science and Technology of Energetic Materials: journal of the Japan Explosive Society	69 (5)	161-168	2008
45	SP Sivapirakasam, M Surianarayanan, F Chandrasekaran	Effect of particle size on the mechanical sensitivity and thermal stability aspects of pyrotechnic flash compositions	Journal of Pyrotechnics	23	39	2006
46	SP Sivapirakasam, M Surianarayanan	Interrelation between impact, friction and thermal energy of pyrotechnic cracking reaction	Journal of Pyrotechnics	23	51	2006
47	SP Sivapirakasam, M Surianarayanan, R Vijayaraghaven	Thermal characterisation and kinetic modelling of pyrotechnic flash	Journal of Pyrotechnics	23	61	2006

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		composition under adiabatic conditions				
48	SP Sivapirakasam, M Surianarayanan, GS Venkataratnam	Evaluation of Noise Levels of Pyrotechnic Fire Crackers	POLLUTION RESEARCH	25 (2)	327	2006
49	SP Sivapirakasam, M Surianarayanan, F Chandrasekaran	Thermal hazards of cracker mixture using DSC	Journal of thermal analysis and calorimetry	78 (23)	799-808	2004
50	SP Sivapirakasam, M Surianarayanan, GS Venkataratnam, P Nagaraj	Hazard evaluation technique for Firework compositions	Indian Chemical Engineering Congress	1	126	2003

(B) Conferences/Workshops/Symposia Proceedings -40 nos.

Sl.No:	Author(s)	Title of Abstract/ Paper	Page numbers	Conference Theme	Venue	Year
1.	Sivapirakasam S.P	Experimental Investigation of carbon dioxide sequestration using polyol based nanofluids	-	EMN Meeting on Microfluidics and Nanofluidics	Dubai	2016
2.	Vishnu. B. R, Sivapirakasam. S. P, Shaju. K. Albert, Gopa Chakraborty, K. K. Satpathy	A Characteristic Study on Welding Fumes from Manual Metal Arc Welding Electrodes	-	National Welding Seminar	Kolkata, India	2015
3.	Sivapirakasam, S.P., M. Sreejith, K.R. Balasubramanian and M. Surianarayanan	Respirable Fume Analysis During The Flux Cored Arc Welding Of SS316L (N) Austenitic Stainless Steel,	-	International Conference on Advance Research in Mechanical , Aeronautical and Civil	Pattaya, Thailand	2013
4.	K. R. Balasubramanian R. Anand S. P. Sivapirakasam Badapu Venkatesh	Study on performance and emission characteristics of DI diesel engine	-	ASME International Mechanical Engineering Congress &	Houston, Texas USA	2012

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	G. R. Kannan	fueled deccan hemp methyl ester,		Exposition		
5.	S. P. Sivapirakasam K. R. Balasubramanian R. Anand G. R. Kannan	Optimization of biodiesel production using RSM and study of combustion charecteristics on DI diesel engine,.	-	ASME International Mechanical Engineering Congress & Exposition	Houston, Texas USA	2012
6.	S.Thiyagarajan, S.P.Sivapirakasam, Jose Mathew, M.Surianarayanan	Experimental investigation on manufacturing and environmental aspects of Electrical Discharge Machining process using graphite electrode	-	International Conference on Manufacturing Science and Technology (ICMST-2011)	Singapore	2011
7.	M.Shahul Hameed S.P.Sivapirakasam, K.R.Balasubramanian, R.Nagalakshmi	Investigations on fume formation rate in shielded metal arc welding process using different electrodes	-	International Conference on Manufacturing Science and Technology (ICMST-2011)	Singapore	2011
8.	Sridhar Vethathiri Pakkirisamy, S.P.Sivapirakasam, Surianarayanan Mahadevan	Concentration effects on thermal explosive characteristics of Fireworks (chakra inner mixture)	-	National Symposium & Workshop on Thermal Analysis	-	2010
9.	M.S.Alphin, K.Sankaranarayana samy, S.P.Sivapirakasam	Whole body vibration in Tracked Excavators with Hydraulic Breaker	Paper No.: HM 08, 6 - 8	International Conference on Advances in Industrial Engineering Applications	Anna University, Chennai	2010

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10.	K.R.Balasubramanian, T.Suthakar, K.Sankaranarayanan, G.Buvanashakaran, S.P. Sivapirakasam, K.Dileep Reddy	Analysis of heat transfer during the laser beam welding of AISI 304 Stainless Steel using CFD	pp. 391-399	International Welding Symposium (IWS 2k10)	Bombay Exhibition Centre Mumbai	2010
11.	S.P.Sivapirakasam, R.Nagalakshmi, K.R.Balasubramanian, P.V.N.Maheswara Rao	Assessment of welding fumes using ventilation parameters during GMAW welding Process,	pp. 463-471	International Welding Symposium (IWS 2k10)	Bombay Exhibition Centre Mumbai	2010
12.	SridharVethathiriPakkirisamy, S.P.Sivapirakasam, Surianarayanan Mahadevan,	Adiabatic calorimeter and fireworks compositions	-	CHEMCON-2009	The Indian Institute of Chemical Engineers	2009
13.	M.Pandian, S.P.Sivapirakasam, M.Udayakumar	Effect of protrusion length of injector on performance and emission characteristics of a twin cylinder diesel Engine employing bio-diesel blend as fuel	-	International Conference on Advances in Mechanical and Building Science(ICA MB 2009)	Vellore Institute of Technology, Vellore, Tamilnadu	2009
14.	M.Pandian. S.P.Sivapirakasam, M.Udayakumar	Influence of injection timing on NOx emission from the naturally aspirated twin cylinder CIDI engine using bio-diesel blends as fuel	-	International Conference on Emerging Research and Advances in Mechanical Engineering (ERA 2009)	Velammal Engineering College, Chennai Tamil Nadu	2009
15.	Jose Mathew, S.P.Sivapirakasam, K.R.Balasubramanian, K. Renjith,	Analysis of total aerosol emission from electrical discharge	-	International Conference on Advances in	National Institute of	2009

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		machining process		Mechanical Engineering	Technology, Surat, Gujarat	
16.	Jose Mathew, S.P.Sivapirakasam, M.Surianarayanan, C.Pandivelan	Safe and green Electrical Discharge Machining (EDM) – A Review.	Pp 149 – 154	AIMTDR Conference	IIT Madras, Chennai	2008
17.	R.Nagalakshmi, J.Premnath, S.P.Sivapirakasam	Occupational Exposure Assessment of Welding Fumes During Manual Metal Arc Welding	-	Symposium On Joining Of Materials(S OJOM)	-	2008
18.	S.P. Sivapirakasam, M. Surianarayanan, F. Chandrasekaran	Thermal characterization of pyrotechnic flash compositions	pp.2 4-25	Third International Symposium on Energetic Materials and their Applications	-	2008
19.	S.P.Sivapirakasam, M.Surianarayanan	Experimental investigation of mechanical sensitivity and noise level for different pyrotechnic flash combinations	pp.2 4-25	Third International Symposium on Energetic Materials and their Applications (ISEM 2008)	-	2008
20.	M. Surianarayanan, S.P.Sivapirakasam, G.Swaminathan	Accident data analysis and hazard assessment in fireworks manufacturing	pp.2 4-25	Third International Symposium on Energetic Materials and their Applications (ISEM 2008)	-	2008
21	M Pandian, SP Sivapirakasam, M Udayakumar	Effect of Protrusion length of Injector on Performance and Emission Characteristics of	-	International Conference on Advances in Mechanical and Building	Vellore Institute of Technology,	2009

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		a Twin cylinder Diesel Engine employing Bio-diesel Blend as fuel		Sciences (ICAMB-2009)	Vellore, Tamilnadu	
22.	Rubagachandiram, S.P.Sivapirakasam, M.Surianarayanan	Hazard waste disposal	pp. 168-172	National Conference on Emerging Trends in Materials Manufacturing and Design	Mepco Schlenk Engineering College, Sivakasi	2007
23.	K Preepkumar, B.Gnanasundarajeyaraja, S.P.Sivapirakasam	Development of software for fault tree analysis and event tree analysis	pp. 39-43,	National Conference on Emerging Trends in Materials Manufacturing and Design	Mepco Schlenk Engineering College, Sivakasi,	2007
24.	A.Asmith shifa, S.P.Sivapirakasam, M.Surianarayanan	Fireworks industry hazardous waste and its management	-	Emerging Trends in Thermal Engineering, Competitive Manufacturing and Management (TECM)	St. Joseph College of Engineering, Chennai	2006
25.	R.Vikrant, S.P.Sivapirakasam, M.Surianarayanan,	Interrelation between mechanical sensitiveness and thermal decompositions of a pyrotechnic cracking reaction – A statistical analysis, Thermal analysis	pp.147 - 150	Board of Research in Nuclear Sciences, Department of Atomic Energy and Indian Thermal Analysis Society, India	Jaipur	2006

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26.	S.P.Sivapirakasam	Hazard evaluation and risk management of firework powders	-	National conference on Emerging Trends in Thermal Engineering, Competitive manufacturing and management TECM2005	St. Joseph College of Engineering, Chennai	2005
27.	S.P.Sivapirakasam,	Thermal Analysis of pyrotechnic flash composition using DSC	-	National conference on Emerging Trends in Thermal Engineering, Competitive manufacturing and management TECM2005	St. Joseph College of Engineering, Chennai	2005
28.	S.P.Sivapirakasam	Hazard quantification using thermal analysis techniques	-	National conference on Emerging Trends in Thermal Engineering, Competitive manufacturing and management TECM2005	St. Joseph College of Engineering, Chennai	2005
29.	S.P.Sivapirakasam, Kannan	Assessment and control of electrical risks in industries	-	SHE-2004, National Seminar	Anna malai University	2004
30.	S.P.Sivapirakasam, Kannan	Thermal hazard analysis of fireworks mixture compositions	-	SHE-2004, National Seminar	Anna malai University,	2004
31.	Ramesh Prabhu, S.P.Sivapirakasam, M.Surianarayanan	Thermal hazards of cracker mixture using DSC	-	Fourteenth National Symposium on thermal analysis, Board of	Department of Atomic Energ	2004

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				Research in Nuclear Sciences,	y and Indian Thermal Analysis Society, Mumbai,	
32.	Kannan, S.P.Sivapirakasam, M.Surianarayanan	Thermo kinetics of cracker mixtures using differential scanning calorimeter	-	Fourteenth National Symposium on thermal analysis, Board of Research in Nuclear Sciences,	Department of Atomic Energy and Indian Thermal Analysis Society, Mumbai,	2004
33.	S.P.Sivapirakasam, P.Nagaraj, A.Noorul Haq	Design of experiments in pickling plant application	-	International Conference on ISQUER	-	2003
34.	M.Veeramani, S.Ravindran, S.P.Sivapirakasam	Assessment of hazards in fireworks industry by safety audit	-	International Conference on ISQUER	-	2003
35.	S.P.Sivapirakasam, M.Veeramani, S.Ravindran, M.Surianarayanan, A.Noorul Haq	Thermal hazard analysis in the manufacturing of fireworks product	pp 246 – 252	International Conference of 3rd Fire India International	-	2002
36.	S.P.Sivapirakasam, G.S.Venkatratnam, P.Nagaraj, S.Vengatesh Janakiraman	Hazard evaluation techniques for fireworks composition	pp.1 26,	International Conference on CHEMICON	-	2002

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37.	M.Veeramani, S.P.Sivapirakasam, M.Anandan, G.S.Venkataratnam	Safe storage and handling of pyrotechnic chemicals	pp. 113, 2001	CHEMCON	-	2001
38.	S.P.Sivapirakasam M.Veeramani, M.Anandan	Road accident analysis by boolean algebra,	pp.8 2	National seminar on Road Safety at IRTT	-	2001
39.	M.Veeramani, S.P.Sivapirakasam, M.Anandan	Road and traffic engineering,	pp. 86	National seminar on Road Safety at IRTT	-	2001
40	M.Anandan M.Veeramani, S.P.Sivapirakasam	Design of a safety training program for drivers	pp.4 2	National seminar on Road Safety at IRT.	-	2001

(C) Books & Monographs

Sl. No.	Title	Author Name	Publisher	Year of Publication
1.	Advances in Mechanical Engineering	Dr.S.P.Sivapirakasam Dr. K.R.Balasubramanian Dr.R. Anand	Knowledge Curve	2014
2	Dynamics of machines and mechanisms, Industrial Research	Part 1 Dr.S.P.Sivapirakasam Dr. K.R.Balasubramanian Dr.R. Anand	Trans Tech Publications	2014