



**ST. JOSEPH'S COLLEGE OF ENGINEERING,  
CHENNAI - 119**

**DEPARTMENT OF SCIENCE & HUMANITIES**



**List of Journal Publications and Conference Presentations  
2017-18**

Department	Journal		Conference		Total No. of Publication
	International	National	International	National	
MATHEMATICS & ENGLISH	11	-	-	-	11
SCIENCE	14	0	0	24	38

## DEPARTMENT OF MATHEMATICS & ENGLISH

### 1. International Journals:

Sl. No	Name of the Staff	Title of the Paper	Details of the Journal Title of the Journal, Volume, Pages, Year
1.	Dr. V. Vallinayagam	A Fuzzy Neural System for water quality prediction	International review of Fuzzy Mathematics, Vol 12, No.1, 2017
2.	Dr. K. Sasikala	Primitivity on Partial arrays	International Journal of Pure and Applied Mathematics, Vol.113, No.10, pp.138-147, 2017
3.	Mrs. B. Shoba	Bi-Magic Labelings of the Graphs $W_n * S_k$ , $W_n * 2S_k$ and $W_n * nP_2$	Global Journal of Pure and Applied Mathematics, Vol. 13, No. 5, pp. 1337-1345, 2017.
4.	Mr. U. Venkateswara	Integrating CLIL With CLT To Develop Speaking Skills In The Engineering Classroom	ARTESOLESP E-journal, Volume 7, No.1, pp.44-53, August 2017.
5.	Mrs. B. Shoba	Super Magic and Arithmetic Labelings of the Graphs $P_3 \times P_n$ AND $C_3 \times C_{2n}$	Global Journal of Pure and Applied Mathematics, Vol. 13, No. 5, pp. 1365-1374, 2017.
6	Dr.R. Subramani	Implementation of non-linear multi objective optimization for energy management systems	Global Journal of Engineering Science and Research Management, Vol.4,No.7,pp.35-43, July 2017
7	Dr. R. Subramani	Multi-objective optimization algorithms and performance test functions for energy efficiency : review	International journal of engineering sciences & research Technology, Vol.6,No.10,pp.39-52, October 2017
8	Dr. R. Subramani	Design and Analysis of Lagrangian Algorithm for Power Flow system using Renewable Energy Resources	Indonesian Journal of Electrical Engineering and Computer Science, Vol. 7, No.2, pp. 348 - 355, 2017

9	Dr. R. Subramani	Optimization in Distributed generation using Renewable Energy Resources - Review	International Journal of Research Science & Management, Vol.4, No.11, pp.39-43, 2017
10.	Dr. R. Subramani	Solution Approaches for unit commitment Problems - An Analysis	International Journal of Engineering Sciences & Research Technology, Vol.6, No.12, pp.326-333, 2017
11.	Mr. G. Venkat Narayanan	Simple Graphoidal covering number on Digraphs	International Journal of Pure and Applied Mathematics, Volume 118 No. 2 2018, 239-253

## DEPARTMENT OF SCIENCE

### 1. International Journals:

Sl. No	Name of the Staff	Title of the Paper	Details of the Journal Title of the Journal, Volume, Pages, Year
1.	Dr. S. Suresh	Investigation of the Thermal and Dielectric Behaviour of Epoxy Nano-Hybrids from Silane Modified Nano ZnO	Silicon, Vol 10, No.4, pp. 1291-1303, 2017
2.	Mr. N.R. Rajagopalan	Synthesis, characterization, nucleation kinetics, mechanical, photo conductivity, birefringence and DFT studies of tris (thiourea) zinc selenate as potential NLO material	Journal of Inorganic and Organometallic polymers and materials, Vol.27, No.5, pp.1199-1210, 2017
3.	Mr. N.R. Rajagopalan	Synthesis , characterization, thermal Analysis, nucleation Kinetics and DFT studies of bis(thiourea) antimony tribromide as Potential NLO Material: Comparison of experimental and computational studies	Journal of Inorganic and Organometallic polymers and materials, Vol.27, No.5, pp.1457-1465, 2017
4.	K. Jayamoorthy	Nano-SiO <sub>2</sub> : An Efficient Catalyst for the Synthesis of Some new Benzimidazoles - NMR Spectral Characterization	Silicon, Vol 9, No.6, pp. 949-954, 2017

5.	K. Jayamoorthy	Nano-Silica Catalyzed Synthesis, Solvent Effect, NMR Spectral and DFT Studies of Some Imidazole Derivatives	Silicon, Vol 9, No.6, pp. 817-822, 2017
6.	A. Uma Devi	Tailored SPVdF-co-HFP/SGO nanocomposite proton exchange membranes for direct methanol fuel cells	Polymer, Vol 140, No.-, pp. 22-32, 2018
7.	P. Saravanan	Twin Applications of Tetra Functional Epoxy Monomers for Anticorrosion and Antifouling Studies	Silicon, Vol 10, No.2, pp. 555-565, 2018
8.	N. Punitha	Synthesis And Characterization Of Various Polymer Assisted Silver Nano Particles	IOSR Journal of Engineering, Vol -, No.-, pp. 61-69, 2018
9.	K. Jayamoorthy	Synthesis, Characterization, Physico-Chemical and DFT Studies of Potential Organic NLO Materials: Experimental and Theoretical Combined Study	Silicon, 10.1007/s12633-018-9837-9,2018
10.	N. Punitha	Effect Of Ni <sup>2+</sup> And Mg <sup>2+</sup> Co-Doping On Structural and Luminescent Properties Of ZnS Nanoparticles	IOSR Journal of Engineering, Vol -, No.-, pp. 49-55, 2018
11.	K. Jayamoorthy	Synthesis, NMR Spectral and DFT Studies of Styryl Imidazole Derivatives – Nano-SiO <sub>2</sub> as an Efficient Catalyst	Silicon, Vol10, No.3, pp. 1045-1050, 2018
12.	B. Subash	Synthesis, Characterization and Recyclable Cerium Loaded CuO Nanocatalyst for the Synthesis of 1, 4-Disubstituted 1, 2, 3-Triazoles and Propargylamines	Silicon, Vol 10, No.3, pp. 1095-1101, 2018

13.	Mr. N.R. Rajagopalan	Experimental and Computational Studies of Bis(thiourea) Lead Chloride: Semi-organic Material for NLO Applications	Silicon, Vol 10, No.3, pp. 1051-1061, 2018
14.	Mr. N.R. Rajagopalan	Experimental and Theoretical Investigations of Tetrakis (Thiourea) Palladium Chloride Semi-Organic Non-Linear Optical Crystal: An Approach to NLO Application	Silicon, Vol 10, No.3, pp. 841-850, 2018

## 2. National Conference:

Sl. No	Name of the Staff	Title of the Paper	Details of the Journal Title of the Journal, Volume, Pages, Year
1.	P. Saravanan	Studies on thermal and dielectric properties of epoxy nanocomposites at different temperature	International conference on Science Engineering and Technology (ICONSET '2018), Jeppiaar Engineering College, Chennai-119, during 23rd and 24th March 2018.
2.	P. Saravanan	Studies on electrical and dielectric properties of epoxy/expanded ZrO <sub>2</sub> Composite	National conference on processing and fabrication of advanced materials (NCPFAM-2018), SSN College of Engineering, Kalavakkam-603110, during 1-2 March 2018.
3.	P. Saravanan	Epoxy/graphene oxide nanocomposite coatings -processing, properties and applications	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
4.	S.M. Prakash	Binding interaction of (1-(4-bromobenzyl)-2-(4-Bromophenyl)-1H-Benzimidazole) with ZnO nanoparticle	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.

5.	S. Savitha	Trace Metal Pollution Assessment in the Sediments of Pulivinichalli Island of Tuticorin, The Gulf Of Mannar, The Southeast Coast of India	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
6.	A. Mahalakshmi	Cadmium quantum dots for optoelectronic applications	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
7.	P. Krishnan	Growth and characterizations of amino acid single crystals using organic acid as additive	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
8.	A. Arulmozhi	laser surface hardening of low carbon alloy steel and investigation of microstructure and hardness using highpower laser diode,	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
9.	B. Subash	Superficial sonication synthesis of a highly sunshine active Sr loaded Ag/ZnO photocatalyst and its applications	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
10.	S. Kiruba	Spectroscopic studies of recently excavated anicent potteries from poompuhar, Tamilnadu, India	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017,



			Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
11.	S. Suresh	Photocatalytic activity of magnetically separable Fe <sub>3</sub> O <sub>4</sub> -ZnO nanocomposites in visible region	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
12.	B. Subash	Facile synthesis of modified semiconductor oxidizedaylight active photocatalyst with antiphotocorrosive property for detoxification azo dye	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
13.	P.Krishnan	Growth and characterization of imidazolium hydrogen oxalate single crystal	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
14.	P. Saravanan	Investigation on the electrical properties of epoxy nanocomposites for high voltage applications	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
15	V. Swarnalatha	Development and studies of n-substituted acrylamide copolymer for antimicrobial resistance	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.

16	S. Suresh	Antagonistic effect of CuO and Fe <sub>2</sub> O <sub>3</sub> nanoparticles on peanut leaves by FTIR and XRF spectral studies	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
17	J. Sharmila	Dual applications of spirulina-ZnO loaded tetra functional epoxy monomer for anticorrosion and antimicrobial studies	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
18	R. Jagan	Dihydrogenphosphate anionic template assisted supramolecular frameworks in 2-enzylaminium and 4-ethoxyanilinium dihydrogen phosphate salts	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
19	B. Subash	UV light active photocatalyst with antiphotocorrosive property for detoxification of TB dye	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
20	S. Manikandan	Thermal, optical and dielectric properties of metal doped amino acid optical single crystals	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
21	N. R. Rajagopalan	A study on the linear and nonlinear optical properties of pure and doped thiourea based single crystals	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017,

			Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
22	N. Punitha	Enhanced structural and photoluminescence in Ni doped ZnS nanoparticles	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
23	N. Punitha	Effect of Ni <sup>2+</sup> and Mg <sup>2+</sup> co-doping on structural and luminescent properties of ZnS nanoparticles	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.
24	N. Punitha	Comparative study of Cts/PEG stabilized $\beta$ -Cd capped silver nano composites for drug formulation	National Conference on Advances in Functional Materials (NCAFM 2017), 5 August 2017, Department of Chemistry St. Joseph's College of Engineering Chennai-600119 India.