



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

**DEPARTMENT OF SCIENCE & HUMANITIES**



**List of Journal Publications and Conference Paper Publications  
2019-2020**

Department	Journal		Conference		Total No. of Publication
	International	National	International	National	
MATHEMATICS & ENGLISH	9	-	15	2	26
SCIENCE	6	-	11	5	22

**DEPARTMENT OF MATHEMATICS & ENGLISH**

**International Journals**

S.No.	Author Name	Title of the paper	Journal	Month/ year	ISSN	DOI No.
1.	Dr. K. Sasikala	Squares in partial arrays	AIP Conference Proceedings, Page:020034-1-020034-6	June 2019	00942 43X	Scopus
2.	Dr. J. Clement	Mostar indices of carbon nanostructures and circumscribed donut benzenoid systems	International Journal of Quantum Chemistry Volume119, Issue 24, Page: 1-11	September 2019	00207 608	<a href="https://doi.org/10.1002/qua.26043">https://doi.org/10.1002/qua.26043</a>
3.	Dr. N. Jose Parvin Praveena	Critical path through Interval valued Hexagonal Fuzzy Number	International Journal of Innovative Technology and Exploring Engineering, Vol 8, Issue-11, Page:1190-1193	September 2019	2278- 3075	-
4.	Dr. F. Sweety	Recognizability of Tetrahedral Picture Languages	International Journal of Recent Technology and Engineering, Volume 8, Issue 4, Page:7379-7383	November 2019	2277- 3878	-
5.	Dr. P. Agilan and Dr. V. Vallinayagam	Generalized Ulam-Hyers Stability of Complex Additive Functional Equation	Journal of Physics: Conference Series, Volume 1377, Issue 1 Page:1-12	November 2019	17426 588	<a href="https://doi.org/10.1088/1742-6596/1377/1/012011">doi:10.1088/1742-6596/1377/1/012011</a>
6.	A. Sathiya Jothi	Developing Vocabulary Abilities Through Lexical Power	International Journal of Scientific & Technology Research, Vol 8, Issue 11, Page: 3512-3514	November 2019	2277- 8616	-
7.	Dr. J. Clement	Weighted Mostar indices as measures of molecular peripheral shapes with applications to graphene, graphyne and graphdiyne nanoribbons	SAR and QSAR in Environmental Research	January 2020	1062- 936X	<a href="https://doi.org/10.1080/1062936X.2019.1708459">doi.org/10.1080/1062936X.2019.1708459</a>
8	Dr.K. Sasikala	Partial array grammars and partial array-rewriting P systems	Mathematics in Engineering, Science and Aerospace (MESA), Vol 11 No 1	February 2020	2041- 31734	-
9	Mr.V. Sabarethinam	Infusion of Heroism, Romance and History In Jaishree Mishra's Rani	Studies in Indian Place Names Volume 40, Issue 4, Page: 417-420	March 2020	2394- 3114	-

## International Conference

S.No.	Author Name	Title of the paper	Details of the Conference
1	Dr.P.Agilan Dr.V.Vallinayagam	Solution and Ulam Stability of Complex Additive Functional Equation in Banach Space	ICMMCI-19 Organized by Alagappa University, 3-4 September 2019.
2	Dr.P.Agilan	Generalized Ulam-Hyers Stability of Complex Additive Functional Equations	PMTIA-19, Organized by, SRM Institute of Science and Technology, Ramapuram, 27-28 September -2019
3	Dr.K. Sasikala	Partial Array Grammar and Partial Array rewriting Systems	International Workshop and Conference on Mathematical Analysis and Computation (IWCMA 2019) at NIT Trichy on December 2-6, 2019.
4	Dr.V.Vallinayagam	Classification of Tuberculosis in Chest Radiographs by Deep Learning	Recent Trends in Stochastic Modelling and its Applications (ICRTSMA-2020) at M S University on Dec 11, 2019.
5	Dr.G.Meena Devi	Disease classification by SVM Classifiers	Recent Trends in Stochastic Modelling and its Applications (ICRTSMA-2020) at M S University on Dec 11, 2019.
6	Dr.V.Premalatha	Disease classification by clustering incorporated Neural network Classifier	Recent Trends in Stochastic Modelling and its Applications (ICRTSMA-2020) at M S University on Dec 11, 2019.
7	Dr.P.Agilan Dr.V.Vallinayagam	Hyers Stability of additive functional equation in Banach space	International Conference on Mathematical Analysis and Computing (ICMAC -2019) at SSN College of Engineering on December 23-24, 2019.
8	Mr.G.Venkat Narayanan	On 2- simple graphoidal covers	ICMTA - 2020, Organized by SRM Institute of Science and Technology, Jan 30-Feb 1 2020.
9	Dr.Sweety I Diamond	Partial array rewriting P-systems and Basic Puzzle Partial Array Grammars	ICMTA - 2020, Organized by SRM Institute of Science and Technology, Jan 30-Feb 1 2020.
10	Dr.H. Geetha	Shuffle on trajectories over partial array languages	ICMTA - 2020, Organized by SRM Institute of Science and Technology, Jan 30-Feb 1 2020.

11	Dr. N. Jose Parvin Praveena	Fault tree Analysis of Single Cylinder Vertical Diesel Engine through Intuitionistic Tetradecagonal Fuzzy Numbers	ICAAM-20, organized by Bharathiyar University, Coimbatore, 21-22 Feb 2020.
12	Dr. N. Jose Parvin Praveena	Shortest path using Dynamic Programming through Fuzzy Numbers	ICAAM-20, organized by Bharathiyar University, Coimbatore, 21-22 Feb 2020.
13	Dr.P. Agilan Dr.V.Vallinayagam	Stability of Hyperbolic Type Functional Equation in Modular Spaces	ICMCE-20, Organized by VIT University, Chennai Campus, 21- 22nd February 2020.
14	Dr.P. Agilan Dr.V.Vallinayagam	Classical and Fixed-Point Approach to the Stability of Generalized Cubic Functional Equation in Fuzzy Normed Spaces	ICMS-20, organized by Sathyabama Institute of Technology, 4-6 March 2020.
15	Dr.P. Agilan Dr.V.Vallinayagam	Researches on the Vocabulary Acquisition and Vocabulary Retention - A Survey	Virtual Conference on Emerging Trends in the English and Foreign Language Teaching (ETEFLT20) organised by VIT, Chennai between 18th - 29th May, 2020

### National Conference

1	Dr.P. Agilan Dr.V.Vallinayagam	Stability Results in Quasi $\beta$ normed spaced for a general additive functional equation	National Conference on Mathematical Analysis and Applications at NIT Trichy on December 19-20, 2019.
2	Dr.P. Agilan Dr.V.Vallinayagam	Stability of additive functional equation in intuitionistic fuzzy Banach space - A classical approach	National Symposium on Mathematics and Applications (NSMA 2019) at IIT Madras on December 22, 2019.

## 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	K. Jayamoorthy	Preparation and characterization of core-shell type Ag@SiO <sub>2</sub> nanoparticles for photodynamic cancer therapy	Photodiagnosis and Photodynamic Therapy, Volume 28, 2019, Pages 324-329.
2	K. Jayamoorthy	Photodynamic activity and DNA binding studies of Pd@SiO <sub>2</sub> core-shell nanoparticles in vitro	Photodiagnosis and Photodynamic Therapy, Volume 26, 2019, Pages 79-84.
3	P. Krishnan	Physical strength and Opto-electrical conductivity of L-Serine Phosphate single crystal for structural and photonics devices fabrication	Materials Research Innovations, 2019, <a href="https://doi.org/10.1080/14328917.2019.1664178">https://doi.org/10.1080/14328917.2019.1664178</a> .
4	S. Suresh	A FTIR approach of green synthesized silver nanoparticles by Ocimum sanctum and Ocimum gratissimum on mung bean seeds	Inorganic and Nano-Metal Chemistry, DOI: 10.1080/24701556.2020.1723025.
5	A. Mahalakshmi	Green Synthesis and Characterization of Cadmium-Tellurium Quantum Dots Using Pomelo Peel Aqueous Extract	<a href="#">Journal of Electronic Materials</a> , 2019, Volume 48, 5975-5979.
6	P. Saravanan	Fabrication of cost effective ecofriendly solar fueled water pumping system	Journal of Applied Science and Computations, 2019, Vol. 6, Issue 5, pp 2480-2485 .

## 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.	K. Jayamoorthy, P. Saravanan, B. Subash, S. Suresh, N.R. Rajagopalan	Binding Interaction of Substituted Benzimidazole With ZnO Nanoparticles	National Conference on Hybrid Materials and Medical Applications, 26 September 2019, Department of Physics, Theivanai Ammal College for Women, Villupuram, India.
2.	P. Saravanan, K. Jayamoorthy	Development of novel functionalized epoxy nano-hybrid coatings for anticorrosion and antifouling applications	National Conference on Hybrid Materials and Medical Applications, 26 September 2019, Department of Physics, Theivanai Ammal College for Women, Villupuram, India.
3.	B. Subash	Excellent Photocatalytic Performance of Acid Black 1 dye by bimetallic Catalyst under Sun light illumination	National Conference on Hybrid Materials and Medical Applications, 26 September 2019, Department of Physics, Theivanai Ammal College for Women, Villupuram, India.
4.	S. Suresh, K. Jayamoorthy	FT-IR spectral studies and multivariate analysis to access the effect of bulk and nano metal oxide on peanut seeds	National Conference on Hybrid Materials and Medical Applications, 26 September 2019, Department of Physics, Theivanai Ammal College for Women, Villupuram, India.
5.	S. Kaleel Mohamed Ibrahim, K. Jayamoorthy	Fluorescence quenching of mercaptobenzimidazole derivative with zirconia nanoparticles	National Conference on Hybrid Materials and Medical Applications, 26 September 2019, Department of Physics, Theivanai Ammal College for Women, Villupuram, India.

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Sl. No	Name of the Staff	Title of the Paper	Details of the Journal Title of the Journal, Volume, Pages, Year
1.	Dr.V.N.Nandini Devi	Binding Interaction of Substituted Benzimidazole With ZnO Nanoparticles	National Conference on Hybrid Materials and Medical Applications, 26 September 2019, Department of Physics, TheivanaiAmmal College for Women, Villupuram, India.
2.	Dr.S.Suresh	Development of novel functionalized epoxy nano-hybrid coatings for anticorrosion and antifouling applications	National Conference on Hybrid Materials and Medical Applications, 26 September 2019, Department of Physics, TheivanaiAmmal College for Women, Villupuram, India.
3.	Dr.V.Swarnalatha	Excellent Photocatalytic Performance of Acid Black 1 dye by bimetallic Catalyst under Sun light illumination	National Conference on Hybrid Materials and Medical Applications, 26 September 2019, Department of Physics, TheivanaiAmmal College for Women, Villupuram, India.
4.	Dr.P.Saravanan	FT-IR spectral studies and multivariate analysis to access the effect of bulk and nano metal oxide on peanut seeds	National Conference on Hybrid Materials and Medical Applications, 26 September 2019, Department of Physics, TheivanaiAmmal College for Women, Villupuram, India.
5.	Dr.N.R.Rajagopalan	Fluorescence quenching of mercaptobenzimidazole derivative with zirconia nanoparticles	National Conference on Hybrid Materials and Medical Applications, 26 September 2019, Department of Physics, TheivanaiAmmal College for Women, Villupuram, India.
6	Ms.J.Sharmila	Corrosion inhibition of mild steel in 0.5M HCl media using natural inhibitor of <i>Spirulinaplantensis</i>	International Conference on Materials and Biological Researches on 9 <sup>th</sup> January 2020, Department of Science, Dr.R.K. Shanmugam College of Arts and Science, Kallakurichi.

7	Ms.S.Savitha	Trace metal pollution assessment in the sediments of island of Tuticorin, the Gulf of Mannar, the southeast coast of India	International Conference on Materials and Biological Researches on 9 <sup>th</sup> January 2020, Department of Science, Dr.R.K. Shanmugam College of Arts and Science, Kallakurichi.
8	Dr. K. Jayamoorthy	Catalytic Synthesis and computational Studies of 2-(4- chlorophenyl)-1-phenyl-1H-benzo[d]imidazole	International Conference on Materials and Biological Researches on 9 <sup>th</sup> January 2020, Department of Science, Dr.R.K. Shanmugam College of Arts and Science, Kallakurichi.
9	Dr. B. Subash	Synthesis, NMR spectral and DFT studies of Imidazole derivatives using nanoparticles as an efficient catalyst	International Conference on Materials and Biological Researches on 9 <sup>th</sup> January 2020, Department of Science, Dr.R.K. Shanmugam College of Arts and Science, Kallakurichi.
10	Dr. P. Saravanan	Corrosion inhibition of mild steel in 0.5M HCl media using natural inhibitor of <i>Spirulinaplantensis</i>	International Conference on Materials and Biological Researches on 9 <sup>th</sup> January 2020, Department of Science, Dr.R.K. Shanmugam College of Arts and Science, Kallakurichi.
11	Dr. P. Saravanan	Surface modified Iron oxide nanoparticles enhances the direct-current electrical characteristics of epoxy resins nanodielectrics	International Conference on Materials and Biological Researches on 9 <sup>th</sup> January 2020, Department of Science, Dr.R.K. Shanmugam College of Arts and Science, Kallakurichi.