

## MAR IVANIOS COLLEGE (AUTONOMOUS)

### FACULTY PROFILE

NAME	Dr. LEENARAJ D. R.		
DEPARTMENT	PHYSICS		
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ACADEMIC QUALIFICATIONS (with name of degree awarding University)	<ul style="list-style-type: none"> <li>• Ph.D. from University of Kerala</li> <li>• M.Phil. from University of Kerala</li> </ul>		
TEACHING EXPERIENCE	LEVEL	YEARS OF SERVICE	INSTITUTION
	UG	7 months	Mar Ivanios College, TVM
	PG	7 months	Mar Ivanios College, TVM
SPECIALIZATION	Spectroscopy, Molecular biophysics		
PUBLICATIONS/ PARTICIPATION IN SEMINARS/ CONFERENCES ETC (Please attach a separate detailed list with titles of papers, names of conferences, etc)		INTERNATIONAL	NATIONAL
	NO. OF RESEARCH PAPERS IN JOURNALS	9	-
	NO. OF PUBLICATIONS IN CONFERENCE PROCEEDINGS	6	4
	NO. OF CONFERENCES PARTICIPATED IN	2	3
PROJECTS			
DETAILS OF RESEARCH SUPERVISION	NO OF STUDENTS AWARDED PHD: NO. OF STUDENTS WITH SUBMITTED DISSERTATIONS: NO. OF CURRENT STUDENTS:		
HONOURS AND AWARDS			
POSTS HELD			
ANY OTHER INFORMATION			
PHOTO (Please copy and paste the photograph you would like to have as your profile image)			

## Papers Published in International Journals

- ✓ **D. R. Leenaraj**, I. Hubert Joe, “*Natural bond orbital analysis and DFT calculation of non-opioid analgesic drug lidocaine*”, *Materialstoday: Proceedings* 2 (2015) 969-972.
- ✓ **D. R. Leenaraj**, D. Manimaran, I. Hubert Joe, “*Molecular docking and structural analysis of non-opioid analgesic drug acetaminophen with halogen substitution: a DFT approach*”, *Journal of Molecular Structure* 1123 (2016) 180-190.
- ✓ **D. R. Leenaraj** and I. Hubert Joe, “*Non-opioid analgesic drug flupirtine: Spectral analysis, DFT computations, invitro bioactivity and molecular docking study*”, *Chemical Physics Letters* 667 (2017) 41-49.
- ✓ **D. R. Leenaraj** and I. Hubert Joe, “*Influence of stereoelectronic effects on the non-opioid analgesics Gaboxadol and Gaboxadol hydrochloride: Spectral and DFT study*”, *Journal of Physics and Chemistry of Solids* 116 (2018) 194-202.
- ✓ M.S. Almutairi, **D.R. Leenaraj**, H.A. Ghabbour, I.H. Joe, M.I. Attia, “*Spectroscopic identification, structural features, Hirshfeld surface analysis and molecular docking studies on stiripentol: An orphan antiepileptic drug*”, *Journal of Molecular Structure* 1180 (2019) 110-118.
- ✓ R.V. Rajan, S. Gowri, N. Manopradha, **D.R. Leenaraj**, L.K. Joy, D. Sajan, “*Growth, structural, third order nonlinear optical properties, dielectric properties, conductivity mechanisms and spectroscopic characterization of a luminescent material trans-diaqua-bis (pyridine-2-carboxylato)-cobalt (ii) dihydrate for optoelectronic applications*”, *Optics & Laser Technology* 119 (2019) 105664.
- ✓ M.M. Julie, T. Prabhu, S.S. Margreat, **D.R. Leenaraj**, S. Periandy, S. Muthu, B.R., Raajaraman, “*An antipsychotic drug: Spectroscopic identification, structural features, DFT computations and molecular docking studies on 4-(methylamino)-3-nitrobenzoic acid*”, *Journal of Molecular Structure*, 1196 (2019) 33-41.
- ✓ A.R. Twinkle, **D.R. Leenaraj**, Z. Ratkovic, B.S. Arunsasi, K.C. Bright, R. Reshma, “*Ferrocenylchalcone derivative (E)-3-(2-methylpyrimidin-5-yl)-1-ferrocenylprop-2-en-1-one: Synthesis, Structural analysis, Docking study and their Antibacterial evaluation*”, *Journal of Molecular Structure*, 1210 (2020)128049.
- ✓ R. V. Rajan, M. George, **D.R. Leenaraj**, R. Ittyachan, D. Sajan, G. Vinitha, “*Growth, Z-scan and density functional theoretical study for investigating the NLO properties of Guanidinium L-glutamate for optical limiting applications*”, *Journal of Molecular Structure*, (2020\_Just Published).

### **Papers presented in National and International Conferences:**

- ✓ Fourth international conference on perspectives in vibrational spectroscopy, Bishop Moore College, Mavelikara, Kerala, India, (2013).
- ✓ National Seminar on Material Science in Research and Technology Annai Velankanni College, Tholayavattam, Kanyakumari district, Tamilnadu, (2013).
- ✓ Indo-German Conference on Laser applications and Nanoscience Thiruvananthapuram, Kerala, India, (2013).
- ✓ The 101<sup>st</sup> Indian Science Congress, University of Jammu, Jammu, (2014).
- ✓ 5<sup>th</sup> International Conference on Perspectives in Vibrational Spectroscopy, Thiruvananthapuram, Kerala, India, (2014)
- ✓ National Conference on Analytical Techniques in Materials Science (2014), St. Joseph's College for Women, Alappuzha, Kerala, India, (2014).
- ✓ National Seminar on Advancements in Material Science, Govt. College for Women, Thiruvananthapuram, Kerala, India, (2015).
- ✓ National Conference on Technologically Advanced Materials, Muslim Arts College, Thiruvithancode, Tamilnadu, (2016).
- ✓ International Conference on Spectroscopy of Bio-molecules and Advanced Materials, Christian College Chengannur, Kerala, India, (2017).
- ✓ International Conference on Recent Trends in Materials Science and Technology, Indian Institute of Space Science and Technology, Thiruvananthapuram, (2018).

### **Research Experience**

Institution	Years of Experience	Research Area	Remarks
Mar Ivanios College (Autonomous), Bethany Hills, Nalanchira, TVM	1 year SERB-DST Project	Synthesis and characterization of Perovskite material for solar cell application.	Principal Investigator, Dr. Sajith Kurian, Assistant Professor, Department of Chemistry, Mar Ivanios College (Autonomous), TVM.