


FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. A. Vijayalakshmi /T0351		
Designation	Associate Professor		
Department	Science & Humanities (Chemistry)		
Date of Joining the Institution	19/08/2005(Regular)		
Qualifications	M.Sc., M.Phil., Ph.D. (Chemistry)		
Total Experience	Overall : 23.1 Yrs	in RMK : 17.1	
Papers Published in Journal	Overall : 24	After Joining RMK : 24	
List of Papers Published	1	Vijayalakshmi A , Vidyavathy, B, Peramaiyan, G & Vinitha, G 2017, 'Synthesis, growth, structural and optical studies of a new organic three dimensional framework: 4-(aminocarbonyl) pyridine 4 (aminocarbonyl) pyridinium hydrogen L-malate, Journal of Solid State Chemistry, vol. 246, pp. 237-244.	
	2	Vijayalakshmi A , Vidyavathy Balraj, G. Vinitha, Crystal structure, growth and nonlinear optical studies of Isonicotinamide p-nitrophenol: A new organic crystal for optical limiting applications, Journal of crystal growth, 448(2016)82-88.	
	3	Vijayalakshmi A , Vidyavathy Balraj , Vinitha G. , Structure and characterization of a new organic crystal for optical limiting applications, isonicotinamide bis-p-aminobenzoic acid, Ukranian J. Phys. Opt. 2016, Volume 17, Issue 3.	
	4	Vijayalakshmi A , Vidyavathy Balraj, Determination of basic solid state parameters and characterization of optical, dielectric and fluorescence properties of Calcium Boro Lactate(CaBL) , Journal of chemical society, Pakistan.	
	5	Vijayalakshmi A , Vidyavathy Balraj 2017, 'Optical, thermal, laser damage threshold, dielectric studies and z-scan technique of novel semiorganic NLO material: sodium boro succinate (NaBS)', U.P.B. Scientific Bulletin-Series B, vol. 79, issue 1, pp. 221-232.	

	6	S.D. Uma Mageswari Vijayalakshmi, A , 2019, 'Policy initiatives for effective Solid Waste Management in India- A critical Review' Interntional Journal of Advance and Innovative Research (UGC approved Journal), Vol.6 Issue 1 (XI) January – March 2019.
	7	Vijayalakshmi A , Chithra B , Balaramesh P, Studies on Dapsone Transition Metal Complexes", International Journal of Pharmtech Research,Vol.8,No.4,pp562-568,(2015),
	8	Vijayalakshmi A ,Vidyavathy Balraj, Chithra B, "Hydrothermal Synthesis, Growth, Optical, thermal and Dielectric studies of Zinc boro oxalate (ZnBO)", Research Journal of Chemical Sciences, Vol.6(1),pp12-15,(2016).
	9	Vijayalakshmi A ,Vidyavathy Balraj, Chithra B, Madhukar Hemamalini, "Synthesis, Growth, Optical, thermal and Dielectric Studies of Lead Boro Glutamate(PbBG)",International Journal of Chemtech Research,Vol.8,No.12,pp638-642,(2016).
	10	Vijayalakshmi A ,Vidyavathy Balraj, Chithra B "An Overview of Novel NLO Succinate Crystals", International Journal of Chemtech Research,Vol.8,No.10,pp272-275,(2015).
	11	Vijayalakshmi A , Vidyavathy Balraj , B. Gunasekaran, Abdul Razack Ibrahim, Synthesis, Structural, Optical, Thermal and LDT Characterization of Novel Semi-Organic Non-Linear Optical Material: Calcium Borolactate, Asian Journal of Chemistry; Vol. 28, No. 12 (2016).
	12	Vijayalakshmi A , Meena M, Parvathipriya A, BIOELCTRONICS – A REVOLUTION in SCIENCE – A REVIEW, Cikitusi Journal For Multidisciplinary Research,Volume 6, Issue 6, pp 313-317 (2019).
	13	Meena M, Vijayalakshmi A , Blooming Electronic Gadgets is Boon or Bane? – A Critical Review, Cikitusi Journal For Multidisciplinary Research, Volume 6, Issue 6, pp 245-250 (2019).

14	Vijayalakshmi A , Meena M, Cradle to Grave of Materials, Test Engineering and Management, January- February 2020, Page No. 8241 – 8245.
15	Meena.M, Vijayalakshmi A , Plastic Microbeads, Waffen-Und Kostumkunde Journal, Volume XI, Issue III, March/2020, Page No. 1-3.
16	A. <i>Parvathi Priya</i> , V. Srinivasan, R. Subhashini, A. Vijayalakshmi . Synthesis and physicochemical properties of a promising nonlinear optical metal organic crystal: Bis(L-alaninato)zinc(II), <i>Materials Letters</i> , Volume 266, 1 May 2020, 127474.
17	A. Vijayalakshmi , M. Meena, P.Suganthi, Statistical Analysis on Vulnerable Categories of Covid- A Birds Eye View, Journal of Xidian University, Volume 14, Issue 7, pp 1122-1128.
18	A. Vijayalakshmi , M. Meena.Crop Destructor-Locust-A critical review, Journal of Xidian University, Volume 14, Issue 7, pp 1798 -1804.
19	M. Meena, A.Vijayalakshmi , Pandemics / Epidemics – A causal analysis, Interciencia Journal, Volume 45, Issue 9, pp 34-43.
20	M. Meena, A.Vijayalakshmi ,The Struggle of India in COVID-19 Combat, Indian Journal of Science and Technology, 14(25): 2106-2110. https://doi.org/10.17485/IJST/v14i25.833
21	R. Harshini, A. Vijayalakshmi , M. Meena , L. AncyGeoferla, Website Development On Cake Factory Using HTML and CSS, International Journal of Aquatic Science ISSN: 2008-8019 Vol 12, Issue 01, 2021
22	Vijayalakshmi A , Vidyavathy Balraj, Meena M “Synthesis, growth and characterization of Strontium boro tartrate (SBT) by Hydrothermal method” accepted the paper in AIP conference proceedings.
23	Vijayalakshmi A , Vidyavathy Balraj, Meena M, “Single crystal X-ray diffraction study of Sodium Boro Succinate (NaBS) accepted the paper in AIP conference proceedings.
24	G. Nixon Samuel Vijayakumar, P.S.Latha Mageshwari, A. Vijayalakshmi , Experimental and Theoretical Investigations on Structural, Morphological, Optical and Dielectric behavior of novel BaO-MnO Metal Nanocomposites, IEEE conference proceedings.

Papers Presented in Conferences (Scopus / WoS indexed only)	Overall: 2	After Joining RMK :2
Ph.Ds / Projects Guided	Ph.Ds Guided : -	Student Projects Guided: -
Books Published :	Count: 2	
	1. Book chapter in the title of COVID-19 to OMICRON – An Overview in the book of COVID-19 Impact and responses Volume VII published by Bhumi Publication, Maharashtra. ISBN: 978-93-91768-52-2.	
	2. Book chapter in the title of An Ecovative Alternative for Plastic: An Overview in the book of Plastic Waste Management Turning Challenges into Opportunities published by Bharti Publication, New Delhi. ISBN: 978-93-91681-06-7.	
Patents	Published Count: 7	Granted Count:=
	1. Crystal Engineering of pharmaceutical Co-crystals isonicotinamide for the development of Active Pharmaceutical Ingredients (API).	
	2. Biomaterial infused chitosan beads for the effective removal of oil and heavy metal ions	
	3. Corrosion inhibition on mild steel using inexpensive inhibitor in 1M HCl	
	4. Covid protocol Management system	
	5. Robotic arm using Arduino in construction work	
	6. A deep learning-based Content sharing system and methods	
	7. Device for analysis of market communication in Tourism	
Professional Memberships	1. Indian Society for Technical Education	
	2. Indian Laser Association	
	3. International Association of Engineers	
	4. Hong Kong Chemical, Biological & Environmental Engineering Society (HKCBEEES).	
	5. International Society for Development and Sustainability (ISDS).	
Consultancy Projects Completed	--	

Awards Received	1. Received an award of 'OUT STANDING WOMEN IN SCIENCE' by Centre for Advanced Research and Design, Venus International Foundation.
	2. Received an appreciation of Mentor in NPTEL course of Enhancing Soft Skills and Personality
Research grants Received	--
Orchid Link / ID	https://orcid.org/0000-0001-7648-226X
Google Scholar Link / ID	https://scholar.google.com/citations?user=aUJ8vREAAAJ&hl=en
Vidwan Link / ID	https://vidwan.inflibnet.ac.in/profile/281463
Research Gate Link / ID	https://www.researchgate.net/profile/Vijayalakshmi-Arunachalam-2
Scopus Link / ID	57189344186