


FACULTY PROFILE

Name of Teaching Staff / RMK ID	T0026			
Designation	Professor			
Department	Department of Science & Humanities (Chemistry)			
Date of Joining the Institution	09.07.1997 (Regular)			
Qualifications	M.Sc.,	M.Phil.,	Ph.D., (Chemistry)	
Total Experience	Overall : 27yrs		in RMK : 26yrs	
Papers Published in Journal	Overall : 20		After Joining RMK :20	
List of Papers Published	<ol style="list-style-type: none"> 1. R. Hariharasuthan, K.S. Radha, M. Meena and K. SenthilKannan, Characterizations of AMPF Micro-Crystals for Photonic, Dielectric, Nano-Influx and Anti-diabetic Relevances, ACTA PHYSICA POLONICA A, No. 4 Vol. 143 (2023), Doi: 10.12693/APhysPolA.143.309 2. M Meena, A Kavitha, S Karthick, S Pavithra and, S Shanmugan, Effect of decorated photoanode of TiO2 nanorods/nanoparticles in dye-sensitized solar cell, Bull. Mater. Sci. (2022) 45:231, https://doi.org/10.1007/s12034-022-02828-9 3. S. D. Uma Mageswari ; P. Suganthi ; M. Meena, Carbon Footprint of Information and Communication Technologies, IEEE, November 2022, DOI: 10.1109/ ICECAA55415.2022.9936485 4. R. Harshini, A. Vijayalakshmi , M. Meena, L. AncyGeoferla, Website Development On Cake Factory Using Htmland CSS, International Journal of Aquatic Science, ISSN: 2008-8019, Vol 12, Issue 01, 2021. 5. K.S. Yoganand, M.Meena and M.J. Umapathy, An inexpensive inhibitor for Corrosion on Mild Steel in 1M Hydrochloric Acid Solution – A kinetic study, Neuro Quantology , September 2022 Volume 20, Issue 9, Page 4750-4755 doi: 10.14704/nq.2022.20.9.NQ44552 6. Senthil Kumar S. Uma Mageswari S D, Meena M, Effect of energy storage material on a triangular pyramid solar still operating with constant water depth, Energy Reports, Vol 8, Supplement 16, December 2022, Pages 652-658. 7. K.S. Yoganand, M.Meena and M.J. Umapathy, Corrosion inhibition efficiency of newly synthesized quaternary ammonium salt in 1M HCl, Indian Journal of Chemical Technology Vol. 29, January 2022, pp. 68-74. 8. M.Meena, M.J. Umapathy K.S. Yoganand, Efficiency of single 			

	<p>and di-site phase transfer catalyzed polymerization of glycidyl methacrylate in the two-phase system: A kinetic study, Indian Journal of Chemical Technology, Vol. 28, July 2021 pp. 445-452</p> <ol style="list-style-type: none"> 9. M. Meena, A.Vijayalakshmi, The Struggle of India in COVID-19 Combat - Indian Journal of Science and Technology, 14(25): 2106- 2110, 2021 https:// www.doi.org/ %2010.17485/ IJST/v14i25.833 10. M. Meena, M.J.Umapathy, Toxic solvent-free: Radical polymerizations of vinyl monomers using a di-site phase transfer catalyst – a kinetic approach, Bulgarian Chemical Communications, Volume 52, Issue 3 (pp. 348-354) 2020, DOI:10.34049/bcc.52.3.5167 11. M. Meena, A.Vijayalakshmi, Pandemics / Epidemics – A causal analysis, Interciencia Journal, 2020, Volume 45, Issue 9, pp 34-43. 12. A. Vijayalakshmi, M. Meena, P.Suganthi, Statistical Analysis on Vulnerable Categories of Covid- A Birds Eye View, Journal of Xidian University, 2020, Volume 14, Issue 7, pp 1122-1128. 13. Vijayalakshmi, M. Meena. Crop Destructor-Locust-A critical review, Journal of Xidian University, 2020, Volume 14, Issue 7, pp 1798 – 1804. 14. Meena. M, Vijayalakshmi A, Plastic Microbeads, WaffenUnd Kostumkunde Journal, Volume XI, Issue III, March/2020, Page No. 1-3. 15. Vijayalakshmi A, Meena M, Cradle to Grave of Materials, Test Engineering and Management, January-February 2020, Page No. 8241 – 8245. 16. M. Meena, A. Vijayalakshmi, Blooming electronic gadgets is boon or bane? – A critical review, CIKITUSI Journal of Multidisciplinary Research, DOI: 16.10089, CJMR, 2019, V616, 19,3025. 17. Vijayalakshmi, M. Meena, Bioelectronics – A revolution in science –A review, CIKITUSI Journal of Multidisciplinary Research, DOI:16.10089, CJMR, 2019, V616,19,3033. 18. Meena M, Umapathy M. J, Efficiency of Single Site Phase Transfer Catalyst in FreeRadical Polymerization of Butyl Methacrylate – A Kinetic Study -2016, BRAZILIAN ARCHIVES OFBIOLOGY AND TECHNOLOGY- An International Journal, Vol.59, e16161045, pp.1-9. 19. Dr. M. Meena, Dr. S. Nanjundan, Dr. M. J. Umapathy, Free Radical Polymerization of Methyl and Ethyl Methacrylates by Green Methodology, 2016, International Journal of Applied Engineering Research, Vol.11, No.4, pp.2177-2184. 20. Yoganand K. S., Srikumar D. S., Meena M. and Umapathy, M. J, “Kinetics of phase transfer agent-aided free-radical polymerization of acrylonitrile and methyl methacrylate using water soluble initiator, 2009, Intl. J. Polym. Mater., Vol. 58, No. 3, pp. 150-159.
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Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 4	After Joining RMK :4
Ph.Ds / Projects Guided	Ph.Ds Guided : -	Student Projects Guided : -
Books Published :	Count : 4	
	<ol style="list-style-type: none"> 1. Co – authored a Text book on Engineering Chemistry Published by Scitech Publications (India) Pvt. Ltd ISBN 10: 8187328347 ISBN 13: 9788187328346 2. Co – authored a Practical Engineering Chemistry Published by Scitech Publications (India) Pvt. Ltd. ISBN 10: 8187328320 ISBN 13: 9788187328322 3. Environmental Issues and Sustainable Development-AGPH Publisher-ISBN -978-81- 960691-8-6, 2022 4. Basics of Engineering Chemistry-AGPH Publisher- 978-81-960902-6-5, 2023 	
Patents	Published Count :9	Granted Count : 3 (Design patent)
	List : <ol style="list-style-type: none"> 1. Corrosion inhibition on mild steel using inexpensive inhibitor in 1M HCl 2. Crystal Engineering of pharmaceutical Co-crystals isonicotinamide for the development of Active Pharmaceutical Ingredients (API) Crystal Engineering of Semi-organic borate sodium borosuccinate crystals for Electronic applications 4. Extraction of hexavalent chromium from wastewater by green methodology 5. Biomaterial Infused Chitosan Beads for the Effective Removal of Oil and Heavy Metal Ions from Industrial Effluents 6. A deep learning-based content sharing system and methods 7. Automated social distance monitor through message intimation and transfer 8. Robotic arm using Arduino in construction work 9. Device for analysis of market communication in tourism <hr/> <ol style="list-style-type: none"> 1. IOT Based Solar Powered Agriculture Robot 2. Sea water desalination apparatus using solar energy 3. Smart planter with automated soil and air analysis system 	
Professional Memberships	Count :6	

	List : 1. Lifetime member – Institute of Researchers 2. Life time member - The Indian Society for Technical Education 3. Life time member - Society for Environmental Sustainability 4. Life time member -Association of Chemistry Teachers
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	5. Life time member – IAENG 6. Life time member -The Indian Science Congress Association
Consultancy Projects Completed	Count : -
Awards Received	Count :4
	List : 1. Inspiring Professor Award- 2022 - Madras Journal Series Pvt Ltd (Registered enterprise under the Ministry of MSME, Government of India) 2. InRes Academic Excellence Award 2021 - Institute of Researchers, registered and recognized by the Ministry of MSME, Govt. of India, 3. Distinguished Woman in Science - Center for Advanced Research and Design, Venus International Foundation, in the year 2020 4. Adarsh Vidya Saraswati Rashtriya Puraskar - National Award of Excellence – 2019, offered by Glacier Journal Research Foundation, Ahmedabad.
Research grants Received	1. Rs. 1,00,000 – under UBA scheme
Orchid Link / ID	ID : https://orcid.org/0000-0001-6270-7333
Google Scholar Link / ID	ID: https://scholar.google.com/citations?hl=en&user=cxmULjIAAAAJ
Vidwan Link / ID	Link: https://vidwan.inflibnet.ac.in/profile/282131
Research Gate Link / ID	Link: https://www.researchgate.net/profile/Meena-Manoharan
Scopus Link / ID	ID : 57210685431