Journal Publications 2022

S.N.	Name of Faculty Member	Name of the Research Paper	Year of Publication	Name of the Journal
1	Jiji Abraham	Exploring the reinforcing mechanism and micromechanical models for the interphase characteristics in melt mixed XLPE-fumed SiO2 nanocomposites	2022	Journal of Applied Polymer Science

<u>2021</u>

S.N.	Name of Faculty Member	Name of the Research Paper	Year of Publication	Name of the Journal
1	Bijoy P Mathew	Synthesis, Biological and Material significance of Dihydro [1,3] oxazine derivative	2021	Current Organic Chemistry
2	Jiji Abraham	Multiwalled carbon nanotubes reinforced flexible blend nanocomposites membranes for pervaporation separation of aromatic- aliphatic mixtures	2021	Polymers and Polymer Composites
3	Jiji Abraham	Human hair reinforced natural rubber composite: efect of hair loading on mechanical, structural, morphological and thermal behaviour	2021	Journal of Rubber Research
4	Jiji Abraham	Synthesis and characterization of natural rubber/graphene quantum dot nanocomposites	2021	Journal of Polymer Research

<u>2020</u>

S.N.	Name of Faculty Member	Name of the Research Paper	Year of Publication	Name of the Journal
1	Jiji Abraham	Hydrophobic, superabsorbing materials from reduced graphene oxide/MoS2 polyurethane foam as a promising sorbent for oil and organic solvents	2020	Polymer Testing
2	Jiji Abraham	A comprehensive study on the impact of RGO/MWCNT hybrid filler reinforced polychloroprene rubber multifunctional nanocomposites	2020	Polymer Testing
3	Jiji Abraham	Role of CNT/clay hybrid on the mechanical, electrical and transport properties of NBR/NR blends	2020	Polymer Bulletin
4	.Jiji Abraham	Characterization of green nanoparticles from plants	2020	Phytonanotechnology: Challenges and prospects
5	Beena Jose	Characterization of green nanoparticles from plants	2020	Phytonanotechnology: Challenges and prospects
6	Jiji Abraham	Flexible FKM/mRGO nanocomposites with excellent thermal, mechanical and electrical properties	2020	Arabian Journal of chemistry
7	Jiji Abraham	Transport and solvent sensing characteristics of styrene butadiene rubber nanocomposites containing imidazolium ionic liquid modified carbon nanotube	2020	Journal of Applied Polymer Science
8	Jiji Abraham	Self-assembled PMMA/ZnO nanocomposites with anti- staining and liquid barrier properties—their physicochemical perspectives and clinical implications as a biomaterial for Maxillofacial prosthetic rehabilitation	2020	Journal of Polymer Research

<u>2019</u>

S.N.	Name of Faculty Member	Name of the Research Paper	Year of Publication	Name of the Journal
1	Beena Jose	The metaphysical ethics of human genome project and its impact on religion, society and culture	2019	European Journal of Science and Theology
2	Jiji Abraham	Polybutadiene rubber/ exfoliated graphite nanocomposites: Impact of filler on the thermal, mechanical and permeability characteristics	2019	Progress in Rubber Plastics and Recycling Technology
3	Jiji Abraham	Exploring the filler–polymer interaction and solvent transport behavior of nanocomposites derived from reduced graphene oxide and polychloroprene rubber	2019	Journal of Applied Polymer Science
4	Bijoy P Mathew	Emerging CH functionalization strategies for constructing fused polycyclic aromatic hydrocarbons and nanographene	2019	Inorganica Chimica Acta
5	Jiji Abraham	Excellent electromagnetic shield derived from MWCNT reinforced NR/PP blend nanocomposites with tailored microstructural properties	2019	Composites Part B: Engineering
6	Jiji Abraham	Development of oral-fluid-impervious and fracture-resistant silver— poly(methyl methacrylate) nanoformulations for intra-oral/extra- oral rehabilitation	2019	Journal of applied polymer science

<u>2018</u>

S.N.	Name of Faculty Member	Name of the Research Paper	Year of Publication	Name of the Journal	
1	Beena Jose	Synthesis and characterisation of iron nano particles using artocarpus heterophyllus tender leaf extract and evaluation of cytotoxic activity	2018	World Journal of Pharmaceutical Research	
2	Theresa Chiramal Jos	Selective recognition of creatinine – Development of a colorimetric sensor	2018	Analytical Biochemistry	
3	Jiji Abraham	Ionic liquid modified multiwalled carbon nanotube embedded styrene butadiene rubber membranes for the selective removal of toluene from toluene/methanol mixture via pervaporation	2018	Journal of the Taiwan Institute of Chemical Engineers	
4	Jiji Abraham	Effect of ionic liquid modified MWCNTs on the rheological and microstructural developments in styrene butadiene rubber nanocomposites	2018	RUBBER CHEMISTRY AND TECHNOLOGY	
5	Jiji Abraham	Cure characteristics of nanocomposites containing imidazolium ionic liquid modified carbon nanotubes and styrene butadiene rubber	2018	Material Science & Engineering International Journal	
6	Jiji Abraham	Static and Dynamic Mechanical Characteristics of Ionic Liquid Modified MWCNT-SBR Composites: Theoretical Perspectives for the Nanoscale Reinforcement Mechanism	2018	Journal of Physical Chemistry B	
7	Jiji Abraham	Investigation of the mechanical, thermal and transport properties of NR/NBR blends: impact of organoclay content	2018	Journal of Polymer Research	
8	Jiji Abraham	Effect of reduced graphene oxide on the solvent transport characteristics and sorption kinetics of fluoroelastomer nanocomposites	2018	Physical Chemistry Chemical Physiscs	
9	Susan Samuel	Study Of Sn2 Reaction Between Methylbromide And Fluoride Ion Using Quantum Mechanical Calculations	2018	IOSR Journal of Applied Chemistry (IOSR-JAC)	

<u>2017</u>

S.N.	Name of Faculty Member	Name of the Research Paper Year of Publicat		Name of the Journal
1	Beena	Investigation of Antioxidant and	2017	International
	Jose	Antibacterial Properties of Leaf, Root,		Journal of
		Fruit and Stem Extracts of Trichopus		Pharmacognosy
		zeylanicus from South India		and
				Phytochemical
				Research
2	Beena	Myristica fragrans extract mediated	2017	World Journal
	Jose	green synthesis of iron nano particles:		of
		characterisation, cytotoxicity and		Pharmaceutical
		antibacterial analysis		Research
3	Nimmy	Influence of 3 acetyl pyridine phenyl	2017	Indian Journal
	Kuriakose	hydrazine on the corrosion of carbon		of Chemical
		steel in hydrochloric acid		Technology
4	Nimitha	Surface and Electrochemical	2017	
	KC	Characterization of N-Fe-dopedTiO2		International
		Nanoparticle Prepared by		Journal of
		Hydrothermal and Facile Electro-		Electrochemical
		Deposition Method for Visible Light		Science
		Driven Pollutant Removal		

<u>2016</u>

S.N.	Name of Faculty Member	Name of the Research Paper	Year of Publication	Name of the Journal
1	Nimmy Kuriakose	Analysis of structure and corrosion inhibition properties of (e)-4-(5-[(2-phenylhydrazono)methyl]thiophen-2-yl) benzoic acid	2016	International Journal of Chemical Science
2	Nimmy Kuriakose	(E)-3-[thiophen-2- ylmethyleneamino]benzoic Acid: Structural and Corrosion Inhibition Studies	2016	Chemical Science Review and Letters