Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Electrical and Communication

Department of Biotechnology

Calendar Year -2023

SI. No	Faculty Name	Title	Journal Name	Impact Factor	Quartile Category
1	Dr. P. Azhagu Saravana Babu	Terpenoids and Fatty Acid Esters from Underutilized Tiliaceae Shrub Exhibit in Silico Bioactivity and Protein Targets	Topics in Catalysis	2.8	Q2
2	Dr. P. Azhagu Saravana Babu	Exploration of Bioactive Compounds from Sargassum myriocystum; A Novel Approach on Catalytic Inhibition Against Free Radical Formation and Glucose Elevation	Topics in Catalysis	2.8	Q2
3	Dr. P. Azhagu Saravana Babu	Effective Inhibition of Enzymatic Browning and Carcinogenic Acrylamide in Fried Food by Polyphenols	Topics in Catalysis	2.8	Q2
4	Dr. P. Azhagu Saravana Babu	Phytochemical Assessment and Evaluation of the Anti-Oxidant, Anti-Microbial, Anti-Cholesterol, and Anti-Diabetic Activities of Triumphetta Pentandra Methanol Based Green Leaf Extract	Journal of Inorganic and Organometallic Polymers and Materials	3.9	Q2
5	Dr. P. Azhagu Saravana Babu	Effective Isolation of Brown Seaweed Flavonoids with Their Potential to Inhibit Free Radicals and Proliferative Cells	Journal of Inorganic and Organometallic Polymers and Materials	3.9	Q2
6	Dr. K. Jagajjanani Rao	Synthesis and characterization of novel positively charged gold nanoparticle for the detection of food contaminants	Results in Optics	2.5	Q3
7	Dr. K. Jagajjanani Rao	A rapid colorimetric dual sensor for the detection of mercury and lead ions in water using cysteine	Chemical Physics Impact	3.8	Q2

		capped silver nanoparticles			
8	Dr. K. Jagajjanani Rao	Organic green route synthesis of multifunctional colloidal sulfur formulation for pesticidal application	Hybrid Advances	Scopus	-
9	Dr. R. Ravi Kumar	Phycocyanin-conjugated chitosan-coated iron oxide nanoparticles for the separation of *Escherichia coli* cells	Biomass Conversion and Biorefinery	3.5	Q2
10	Dr. R. Ravi Kumar	An optimized approach towards bio-capture and carbon dioxide sequestration with microalgae Phormidium valderianum using response surface methodology	Bioresource Technology	9.7	Q1
11	Dr. S. Mugesh	Highly sensitive technique for detection of adulterants in centella herbal samples using surface enhanced Raman spectroscopy (SERS)	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	4.3	Q2
12	Dr. S. Mugesh	Poly (3-hydroxybutyrate) isolation and characterization of biopolymers of microbial origin towards a sustainable future	European chemical bulletin	3.71	Q3
13	Dr.R. Sai Nandhini	Enhanced synthesis of 3-hydroxypropionic acid by eliminating by-products using recombinant Escherichia coli as a whole cell biocatalyst	Topics in Catalysis	2.8	Q2
14	Dr.R. Sai Nandhini	Redox Balanced Co-production of Propanediol and 3-Hydroxypropionic Acid from Glycerol Using Novel Recombinant *Klebsiella quasi pneumonia* MSN12	Journal of Inorganic and Organometallic Polymers and Materials	3.9	Q2
15	Dr. S. Sai Nandhini. R	Recent developments and future aspects: Nanobased drug delivery system in cancer therapy	Topics in Catalysis	2.8	Q2
16	Ms. R. Nirmala Nithya	GC-MS analysis of *Curcuma zedoaria* tuber extracts and its antibacterial activity	International Journal of Pharmaceutical Sciences and Research	Scopus	-
17	Ms.R. Nirmala Nithya	Enhancing the Production of Polyhydroxybutyrate, a Biodegradable Polymer by an Optimized Process Using a	Topics in Catalysis	2.8	Q2

		Novel *Klebsiella Pneumonia* Strain			
18	Ms.R. Nirmala Nithya	Gc-ms analysis of curcuma zedoaria tuber extracts and its antibacterial activity	International Journal Of Pharmaceutical Sciences And Research	Scopus	-
19	Dr. Tarangini Korumilli	Insights into recent innovations in anti browning strategies for fruit and vegetable preservation	Trends in Food Science & Technology	15.1	Q1
20	Dr. Tarangini Korumilli	A review on augmentation of natural fabric materials with novel bio/nanomaterials and their multifunctional perspectives	Hybrid Advances	Scopus	-
21	Dr. Tarangini Korumilli	Eco-Friendly Bioplastic Material Development Via Sustainable Seaweed Bio composite	Ecological Chemistry and Engineering S	1.8	Q3
22	Dr. Sugumari Vallinayagam	Arsenic and Environment: A Systematic Review on Arsenic Sources, Uptake Mechanism in Plants, Health Hazards and Remediation Strategies	Topics in Catalysis	2.8	Q2
23	Dr. Sugumari Vallinayagam	Valorization of *Adhatoda vasica* leaves: Extraction, in vitro analyses and in silico approaches	Frontiers in Nutrition	4	Q1
24	Dr. Sugumari Vallinayagam	Tricine Incorporated Potassium Metal Ion Crystal: Antibacterial and NLO Activities	Topics in Catalysis	2.8	Q2
25	Dr. S. N. Nisha	Insight into tomato plant immunity to necrotrophic fungi	Current Research in Biotechnology	3.6	Q2
26	Dr. S. N. Nisha	Biocontrol efficiency of Trichoderma asperellum in managing branch canker disease of tea (*Camelia* sp.), its effect on vegetative growth, natural enemies and phytotoxicity	Indian Phytopathology	1.09	Q3
27	Dr. S. N. Nisha	Application of *Ampellomyces*	International Journal	-	-

		quisqualis and some Non-Chemical Measures for Managing Powdery Mildew Disease: Review	of Agriculture, Environment and Biotechnology		
28	Dr. S. N. Nisha	Chemical Measures for Managing Powdery Mildew Disease:	Computational Intelligence and Neuroscience	-	-
29	Dr. V. R. Manoj	Effective nutrient removal using nutrient film technique hydrophonics unit under varying nitrate nitrogen concentrations	Environmental quality management		Q3
30	V.R. Manoj	Aflotoxins: Source, detection, clinical features and Prevention	Processes	2.3	Q1
31	Dr. Bisheswar Karmakar	Catalysed biodiesel synthesis from non-edible Nagkesar and Rubber seed oil blends using C1-C3 alcohol mixtures: Process optimization, kinetics and thermodynamics	Bioresource Technology Reports	9.7	Q2