

Shaheed Rajguru College of Applied Sciences for Women Research Papers in Journals and Conferences (2020 - 2021)

Department	Name of the Faculty	Title of the paper	Authorship*	Journal's name and details	Country of publication	Name of the conference and details of the organizers if full paper is published in the proceedings	Indexing WoS, Scopus, PUBMED, ICI etc.	Impact Factor of the Journal(Scopus)	Include d in UGC list or not
Biomedical Sciences	Dr. Radhika Bakhshi	Comparative metabolic profiles of total and partial body radiation exposure in mice using an untargeted metabolomics approach	JointAuthor	Metabolomics, 16, Article number: 124	USA	–	Scopus, Pubmed	5.7	Yes (List II)
		PGC1A driven enhanced mitochondrial DNA copy number predicts outcome in pediatric acute myeloid leukemia	JointAuthor	Mitochondrion 58 , 246-254	USA	–	Scopus, Pubmed	5.8	Yes (List II)
	Dr. Indu Arora	Collagen Nanoparticle-Mediated Brain Silymarin Delivery: An Approach for Treating Cerebral Ischemia and Reperfusion-Induced Brain Injury	JointAuthor	Frontiers in Neuroscience, 14 ,1-21(2020)	India	–	Scopus	3.707	Yes
		Collagen–curcumin nanocomposites showing an enhanced neuroprotective effect	Joint Author	RSC Advances, 10 (4),2241-2253(2020)	India	–	Scopus	3.119	Yes

		against short term focal cerebral ischemia							
		Biofabricated platinum nanoparticles: therapeutic evaluation as a potential nanodrug against breast cancer cells and drug-resistant bacteria	Corresponding Author	RSC Advances, 11 , 24900-24916(2021)	India	–	Scopus	3.119	Yes
	Dr. Manisha Khatri	Design, synthesis, ADME prediction and anti-hyperglycemic evaluation of new alkoxyimino-substituted phenyl carboxylic acids as potent alpha-glucosidase inhibitors	Corresponding Author	Chemical Biology Letters, 7 (4), 207-214(2020)	India	–	Scopus	4.4	Yes
		Nitazoxanide/Camostat combination for COVID-19: An unexplored potential therapy	Corresponding Author	Chemical Biology Letters, 7 (3), 192-196(2020)	India	–	Scopus	4.4	Yes
Chemistry	Dr Jasjeet Kaur	Indian tradition of palm print authentication and the globetrotting journey of Kohinoor diamond	One of the two authors	Indian Journal of History of Science, 55 (4), 344-3489(2020)	India	–	-	-	Yes (List I)
	Dr. Anjeeta Rani	Insight into the interaction between enzymes and biological buffers enhanced thermal stability of stem bromelain	Joint Author	Journal of molecular liquids, 322 , 114526(2020)	Netherlands	–	Scopus	6.165	Yes
		The influence of sodium phosphate buffer on the stability of various proteins: Insights into protein-buffer interactions	Joint Author	Journal of molecular liquids, 331 , 115753(2021)	Netherlands	–	Scopus	6.165	Yes
	Dr Parul	Iron oxide nanoparticles	Joint	Nanomedicine	India	–	Scopus	5.3	Yes

		conjugated with organic optical probes for <i>in vivo</i> diagnostic and therapeutic applications	Author	16(11),943-962(2021)					
		Iron Oxide-Based Magneto-Optical Nanocomposites for In Vivo Biomedical Applications	Joint Author	Biomedicines 9(3), 288 (2021)	India	–	Scopus	5.6	Yes
		Fluorescein-entrapped magnetosomes for magnetically assisted photodynamic therapy	One of the two author	Nanomedicine 16(11),883-894 (2021)	India	–	Scopus	5.3	Yes
Computer Science	Deepali Bajaj	A Prescriptive Model for migration to microservices based on SDLC Artifacts	Joint Author	Journal of Web Engineering River Publishers	United States	–	SCIE and Scopus Indexed	0.854	Yes
Electronics	Dr. Monika Tyagi	Analytical studies of SWCNTs embedded in nonlinear viscous elastic media and the chaotic effect of its various parameters	First Author	International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 31(06), (2021)	Singapore	–	SCI	2.86	Yes
		Analytical solution of nonlinear forced vibration of the SWNTs embedded in viscous elastic matrix with linear and nonlinear damping	First Author		USA	International Conference On Advanced Materials , AIP conference Proceedings, October 2021	-	-	
	Dr. Manoj	A Junctionless Accumulation Mode NC-FinFET Gate Underlap	First Author	IEEE Transaction on Electron Devices, 67(8), 3424 -	USA	–	SCI	2.913	Yes

Kumar	Design for Improved Stability and Self-Heating Reduction		3430(2020)					
	Impact of Gamma Radiation on the DC and RF Performance of 10-nm Bulk N-channel FinFETs	Joint Author	IEEE Transactions on Device and Materials Reliability, 20 (4), 760 – 766(2020).	USA	–	SCI	1.761	Yes
	Linearity Investigation of Ultra-Low-Power Cylindrical SOI Schottky Barrier MOSFET for Biomedical and 5G/LTE Circuits Application	Joint Author	–	India	4th International Conference on Devices for Integrated Circuits (DevIC 2021), May 19-20, 2021. West Bengal, India	–	–	–
	Gate All Around 22nm SOI Schottky Barrier MOSFET with High ION/IOFF Current Ratio for Low Power Digital and Analog Circuit Applications	Joint Author	–	India	8th International Conference on Microelectronics, Circuits & Systems, (Micro 2021, May 8th-9th, 2021, Kolkata, West Bengal, India	–	–	–
	Effect of Self-Heating on Linearity of Novel Junctionless Accumulation Mode Negative Capacitance FinFET	First Author	–	India	International Conference on Emerging Electronics, (ICEE, Delhi, India),	–	–	–

						November 26-28, 2020.			
		Impact of Hot Carrier Injection on Total Ionizing Dose Effect of 10-nm N-Channel Bulk FinFETs	Joint Author	–	India	International Conference on Emerging Electronics, (ICEE, Delhi, India), November 26-28, 2020.	–	–	–
		Modeling of 0.18um RF Bulk and SOI FETs using Industry standard BSIM Models	Joint Author	–	India	International Conference on Emerging Electronics, (ICEE, Delhi, India), November 26-28, 2020.	–	–	–
Food Technology	Dr Ranjana Singh	Utilizing Agricultural Waste As Natural Bioabsorbents– A Review.	First Author	International Journal of Emerging Technologies and Innovative Research.	India	–	Peer Reviewed	5.87	No
		Formulation of Gluten-free Bread with Different Levels of Hydroxypropyl Methylcellulose, Raw Banana Flour and Proof Time: Modelling, Proximate and Sensory Analyses”	Joint Author	Plant Archives	India	–	Peer Reviewed	–	No
		Bioplastics : Scope & Extent of Use in Food Industry—A Review	Joint Author	International Journal of Emerging Technologies and Innovative Research.	India	–	Peer Reviewed	5.87	No

	Dr Twinkle Kumar Sahchan	Utilizing Agricultural Waste As Natural Bioabsorbents– A Review.	Joint Author	Journal of Emerging Technologies and Innovative Research.	India	–	Peer Reviewed	5.87	No
	Dr. Jyoti Nishad	Ultrasound-assisted development of stable grapefruit peel polyphenolic nano-emulsion: Optimization and application in improving oxidative stability of mustard oil	First Author	Food Chemistry	India	–	Peer Reviewed (WoS, Scopus)	7.514	Yes
Instrumentation	Dr. Sneha Kabra	Performance Analysis and Optimization of Under-Gate Dielectric Modulated Junctionless FinFET Biosensor	Corresponding Author	IEEE Sensors Journal, 21 (17), 18897 – 18904 (2021) DOI: 10.1109/JSEN.2021.3090263	India	NA	Scopus	3.301	Yes
		Open gate AlGaIn/GaN HEMT biosensor: Sensitivity analysis and optimization	Corresponding Author	Superlattices and Microstructures, 156 , 106968(2021)	India	NA	Scopus	2.658	Yes
		Performance Investigation of Novel Pt/Pd-SiO ₂ Junctionless FinFET as a High Sensitive Hydrogen Gas Sensor for Industrial Applications	Corresponding Author	IEEE Sensors Journal, 21 (12), 13356 – 13363(2021) DOI: 10.1109/JSEN.2021.3067801	India	NA	Scopus	3.301	Yes
		Analytical Modeling and Simulation of AlGaIn/GaN MOS-HEMT for High Sensitive pH Sensor	Corresponding Author	IEEE Sensors Journal, 21 (12), 12998 – 13005 (2021) DOI: 10.1109/JSEN.2021.3069243	India	NA	Scopus	3.301	Yes
		Dielectric Separated	Corresponding	IEEE Transactions	India	NA	Scopus	2.57	Yes

		Dielectric Separated Independent Gates Junctionless Transistor (DSIG-JLT) For Highly Scaled Digital Logic Implementation	Joint Author	IEEE Transactions on Nanotechnology, 20 , 262 – 269(2021) DOI: 10.1109/TNANO.2021.3066814	India	NA	Scopus	2.57	Yes
	Ms. Himani Dua	Performance Analysis and Optimization of Under-Gate Dielectric Modulated JunctionlessFinFET Biosensor	First Author	IEEE Sensors Journal, 21 (17), 18897 – 18904(2021) DOI: 10.1109/JSEN.2021.3090263	India	NA	Scopus	3.301	Yes
		Performance Investigation of Novel Pt/Pd-SiO ₂ JunctionlessFinFET as a High Sensitive Hydrogen Gas Sensor for Industrial Applications	First Author	IEEE Sensors Journal, 21 (12), 13356 – 13363(2021) DOI: 10.1109/JSEN.2021.3067801	India	NA	Scopus	3.301	Yes
	Ms.Neha Garg	Dielectric Separated Independent Gates Junctionless Transistor (DSIG-JLT) For Highly Scaled Digital Logic Implementation	First Author	IEEE Transactions on Nanotechnology, 20 , 262 – 269(2021) DOI: 10.1109/TNANO.2021.3066814	India	NA	Scopus	2.57	Yes
	Ms. Reshma Sinha	A Study on Low Power Spintronics	First Author	NA	India	IEEE International Conference on Advances in Computing, Communication and Materials (ICACCM), 2020,21-22 Aug. 2020	IEEE Xplore	NA	Yes

						Dehradun, Indiadioi: 10.1109/ICAC CM50413.2020 .9213013			
Maths	Dr. Shalu Sharma	“BLOCK SEQUENCES OF RETRO BANACH FRAMES	Corresponding Author	Poincare Journal of Analysis & Applications. ISSN 2349-6789	India	–	Scopus	0.32	Yes
	Dr. Ritika Chopra	An Efficient Algorithm to Solve Transshipment Problem in Uncertain Environment	Joint Author	International Journal of fuzzy systems ISSN: 1562-2479	Taiwan	–	Scopus, SCI	4.5	Yes
	Dr. Yashi	A fractional order HIV-TB co-infection model in the presence of exogenous reinfection and recurrent TB	Joint Author	Nonlinear Dynamics: An International Journal of Nonlinear Dynamics and Chaos in Engineering System	Switzerland	–	Scopus, SCI, Pubmed	5.2	Yes
	Dr. Shivam Kumar Singh	H-Toeplitz Operators on the Bergman Space	One of the two authors	Bulletin of the Korean Mathematical Society	Korea	–	Scopus, WoS	0.502	Yes
Microbiology	Dr. Rekha Mehrotra	Synthesis of silver nanoparticles utilizing various biological systems: mechanisms and applications—a review."	Joint Author	Progress in Biomaterials, Springer Nature 1-15(2020)	Switzerland, AG	–	Pubmed	-	-

		Psychobiotics: The Next-Generation Probiotics for the Brain.	Joint Author	<i>Current Microbiology</i> (2021). https://doi.org/10.1007/s00284-020-02289-5	Switzerland, AG	–	Pubmed	2.18	-
	Dr. Richa Sharma	Psychobiotics: The Next-Generation Probiotics for the Brain.	Joint Author	<i>Current Microbiology</i> (2021). https://doi.org/10.1007/s00284-020-02289-5	Switzerland, AG	–	Pubmed	2.18	-
	Ms. Aarti Yadav	DNA replication protein Cdc45 directly interacts with PCNA via its PIP box in <i>Leishmania donovani</i> and the Cdc45 PIP box is essential for cell survival	First Author	PLoS Pathogen, 10.1371 ,1(26), 1553-7374(2020).	India	–	Pubmed	5-7	-
		Current and Prospective Therapeutic Regimens for SARS-CoV-2: Review on Modern Medicine and Alternate Therapies	Joint Author	Acta Scientific Microbiology, 4, 1-17(2021), ISSN: 2581-3226	India	–	CrossRef	1-2	-
	Dr. Yamini Agrawal	DNA Barcoding for Identification and Detection of Species	Corresponding Author	Letters in Applied NanoBioscience, 11(2), 3542 – 3548(2021)	Romania (Europe)	–	- CrossRef -Scilit (MDPI)		-
		Review on Bioremediation of Metal Contaminated Soils	First author	Journal of Bioremediation & Biodegradation, 11:469(2020)	Romania (Europe)	–	ICI, Publons	2.01	-
		Morphological importance of nanoparticles and its applications	Joint Author	Plant Cell Biotechnology and Molecular Biology, 22(41-42), 139-	India	–	ICI, Publons	–	Yes

				153(2021)					
		Silver nanoparticles for enhanced dye degradation	Joint Author	Current Research in Green and Sustainable Chemistry, 4, 100132 (2021)	UK	–	Scopus	–	-
		Correlation of spore count and root colonization by arbuscular mycorrhizal fungi in nickel contaminated soils	Joint author	Asian Journal of Research in Biology 4(1), 16-23(2021)	India	–	ICI, Publons	–	Yes
		Plants useful for phytoremediation of soil and water in India	Joint author	Asian Journal of Plant and Soil Sciences, 6(3), 1-8(2021).	India	–	ICI, Publons	–	Yes
Physics	Dr Ashok Kumar	Impact of infrared radiation on track etching parameters of Lexan track detector to ssion fragments from 252Cf source	One of the two Authors	Nuclear Inst. and Methods in Physics Research B	Netherland	–	Scopus, WOS,	1.377	Yes
		Effects of He–Ne laser on etching parameters of lexan (polycarbonate) plastic track detector irradiated with fssion fragments	Corresponding Author	Radiation Measurements	England	–	WoS, Scopus	1.898	Yes
	Dr Amit Kumar	Evolution of Structure, Magnetism and Critical Behaviour of Nanocrystalline BaCo1-yMnyO3-δ (0.1 ≤ y ≤ 0.3)	Joint Author	Journal of Superconductivity and Novel Magnetism	USA	–	Scopus, SCI, WOS,	1.312	Yes
		Magnetic and Magnetocaloric Properties	Joint Author	AIP Advances	USA	–	WOS	1.337	Yes

		of the nanocrystalline Pr _{0.7} Ba _{0.2} Ca _{0.1} MnO ₃ Sample							
Psychology	Dr. Komal Chandiramani	Negative effects of “work from home” culture during the coronavirus pandemic: a gender-based study.	Joint Author	International Journal of Indian Psychology, 9 (1), 1232-1246. DIP:18.01.129/20210901, DOI:10.25215/0901.129	India	–	Crossref, Indian Psychological Association, J-Gate	4 (Based on ResearchBib (ARI))	No
		Exploring Trivialisation of Mental Health Issues using Internet Memes in Young Adults.	Joint Author	Journal of Indian Psychology, 9 (2), 868-881. DIP:18.01.091.20210902, DOI:10.25215/0902.091	India	–	Crossref, Indian Psychological Association, J-Gate	4.0 (Based on ResearchBib (ARI))	No
		Impact of identity process on psychological well-being of adolescents	Joint Author	Journal of Indian Psychology, 9 (1) DIP: 18.01.082/20210901, DOI: 10.25215/0901.082,	India	–	Crossref, Indian Psychological Association, J-Gate	4.0 (Based on ResearchBib (ARI))	No
Statistics	Dr. Deepa	Forecasting and Modeling Monthly Rainfall in Bengaluru, India: An Application of Time Series Models	One of the two Authors	International Journal of Scientific Research in Mathematical and Statistical Sciences	India	–	h-Index	1.021	No

				(IJSRMSS)					
	Dr. Sandeep Mishra	Generalized Bayes estimation for a SAR model with Linear restrictions Binding a Coefficients	One of the two Authors	Communications for a Statistical Applications and Methods	South Korea	-	h-Index	0.57	No
		Generalized Bayes estimation for Spatial Durbin Model (Accepted)	Joint Author	Journal of Quantitative Economics	Switzerland	-	Scopus	2.45	Yes
		Approximate estimation of the parameters of Johnson Sb Distribution	Joint Author	International Journal of Advanced Science and Technology	Australia	-	Scopus	0.41	Yes
Biochemistry	Dr. Bhawana	The role of serotonin and diet in the prevalence of irritable bowel syndrome: a systematic review	Corresponding Author	Translational Medicine Communications 6(1), (2021)	-	-	WOS and PUBMED in process.	-	No
Library	Dr. Projes Roy	Evaluative Study of Public Library Infrastructure for Adult Literacy initiative in Delhi	One of Two Authors	Library Philosophy and Practice	USA	-	Scopus	0.356	Yes
		An analytical study of web enabled information services through web sites in University Libraries of Delhi and NCR	Joint Author	IME Journal	India	-	-	-	NA
		User awareness of ICT enabled information services: a comparative study of university libraries of Delhi and	Joint Author	Library Herald	India	-	Scopus	5.485	Yes

		NCR							
		Gender Equality and Eradication of Adult Illiteracy of Public Library initiative in Delhi	One of Two Authors	Library Philosophy and Practice	USA	-	Scopus	0.356	Yes