

FACULTY RESEARCH PAPER: 2020-2021

School of Science							
Title of Research Paper	Name of Authors	Name of Journal	Volume (Year)	Issue	ISSN	Page	
Disrupting the quorum sensing mediated virulence in soft rot causing <i>Pectobacterium carotovorum</i> by marine sponge associated <i>Bacillus</i> sp. OA 10	Dr. Aparna Anil Singh, Anil Kumar Singh, Anuradha Nerurkar	World Journal of Microbiology and Biotechnology	2021	37.5		3 to 11	
Solubilization of polycyclic aromatic hydrocarbons (PAHs) in PEO-PPO-PEO type linear and star block copolymers	Chitralekha Chakrabarti, Mehul Khimani, Vijay Patel, Pareeh Parekh, Sadafara Pilla, Itendra Mota, Rohit L. Vekariya, Pooasam Bhajji, Mohd. Muddassar	Journal of Molecular Liquids	2021	325	0167-7322	1 to 10	
Validation of In vitro Deposition of Emitted Dose Method for Simultaneous Estimation of Formoterol Fumarate and Glycopyrrolate in Combined Dry Powder Inhaler Aerosol Pharmaceutical Dosage Form	Ravindra K. Kotak, Chintan V. Pandya, Aditee C	International Journal of Pharmaceutical Sciences and Drug Research	2020, 12	5	0975-248X	501-508	
Development and Validation of Modified UHPLC-DAD Analytical Method for Simultaneous Determination of Regapride and Metformin in Pharmaceutical Dosage Forms	VIRALKUMAR PATEL, CHINTAN PANDYA, ADITEE PANDYA, ZALAK PATEL, and DHARMESH PATEL	Asian Journal of Chemistry	32, 2020	12		3127-3134	
Determination of Spray Pattern and Plume Geometry of Combined Budesonide and Formoterol Fumarate pressurized Metered Dose Inhalation Aerosol	Ravindra K Kotak, Chintan V. Pandya, Aditee C Pandya, Avnish Rajput_3, Brijesh Kumar Thakur	International Journal of Pharmaceutical Sciences and Drug Research	2020, 12	6	0975-248X	614-620	
A Review of effects of air pollution on physical and biochemical characteristics of plants	Jyotsana Pandit and Ansh Kumar Sharma	International Journal of Chemical Studies	8, 2020	3	2321-4902	1684-1688	
Functional Niche Under Abiotic Stress.	Anish Kumar Sharma, Vishal Singh Negi, Archana Negi, Bharat Singh Solanki and Khayati Harkhani	Springer Nature	Jun-21			311- 342	
Molecular Diversity of Chytrid/lys Degradating Bacteria Isolated from Apple Orchard Soils of Himachal Pradesh.	Anish Kumar Sharma, Jyotsana Pandit and Khayati Harkhani	Journal of Pure and Applied Microbiology	May-21		2581-690X	777- 786	
Biochemistry of plants: N-heterocyclic non -protein amino acids	Vishal Singh Negi, Archana Pal, Dulal Borbhaokur	Springer Nature	May-20				
Micellization and clouding singularity amid the mixture of EO-PO-based star-block copolymer and cationic surfactants in aqueous solution	Sadafara A. Pilla, Vinod Kumar , Ketan Kuperkar c, Debes Ray d, Vinod K. Aswal d, Sanjeev Kumar a	Elsevier	Apr-21			1-9	
Urban sustainability analysis of Solan district, Himachal Pradesh, India	Jyotsana Pandit, S. K. Bhardwaj and Ansh Kumar Sharma	CURRENT SCIENCE	120, 2021	April		1246- 1249	
Synthesis and aggregation behaviour of thermo-responsive-b-poly (ionic liquid) diblock copolymers in aqueous solution	YongFeng Yao, Chetan Patel d, Rohit L. Vekariya e, Shi-ichi Kusai f, Chetan B. Sarngari, Yontgao Duan, Sadafara Pilla , Hiren Patel, Nadvavala Siva Kumar h, Mehul Khimani	Journal of Molecular Liquid	339, 2021	Jun	0167-7322	1-12	
A Sustainable Production of Lignocellulosic enzymes and value added metabolites from banana pseudostem waste by <i>Bacillus</i> wakoensis NALUH 4	Hiren Patel, Mehul Khimani, Rohit Vekariya, Lalit Mahatma	Process Biochemistry Elsevier	105	Mar-21	1359-5113	42-49	
Prediction of SO2 Concentration Using Air Dispersion Model: A Case Study of Thermal Power Plant	Akshay Bhargava 1, Swati Bhargava, Prachi Golhar, Sheetal Kamble, Priyanka Boddu, Preeti Pandey	International Journal of Earth Sciences Knowledge and Applications	2, 2020	Oct, 20	2687-5993	121-132	
Emerging Urban Air Pollution- A serious threat	Jigyasu , Dr. Sheetal Kamble, Prachi Bhajipale, Dr. Akshay Bhargava	Research Inventy: International Journal of Engineering And Science	11, 3	March, 21	2278-4721	17-26	

Books							
Title of Books/ Chapter	Name of Authors	Name of Publisher	Year	ISBN	Page		
Objective on Plant Biotechnology	R. K. Kalia, H.K. Patel, H. V. Patel, M.I. Patel	Jain Brothers	2021	978-81-948297-2-0			
Fungi/Bio-Prospects in Sustainable Agriculture, Environment and Nano - Technology / Prevention and control of mycotoxins for food safety and security of human and animal feed.	Hiren.K. Patel, Rishee K. Kalaria, Mehul R. Khimani, Gaurav S. Shah, Bharat Z. Dhokalya	Andre Gerhard Wolff	2021	978-0-12-812734-4			
The Future of Effluent Treatment Plants / Application of molecular biological tools to monitor process efficiency.	Hiren.K. Patel, Rishee K. Kalaria, Binay V. Patel, Gaurav S. Shah	Joe Hayton, Elsevier	2021	978-0-12-822956-9			
Membrane- Based/Hybrid Processes for Wastewater Treatment/ Membrane Reactors	Hiren.K. Patel, Rishee K. Kalaria, Priyanka H. Jolkhakar, Bhikhu S More, Mehul R. Khimani, Mehul R. Khimani, Chetan R. Patel, Pravin R. Dudhagere	Susan Dennis, Elsevier	2021	978-0-12-823804-2			

School of Engineering							
ENHANCING THE SECURITY OF ATM TRANSACTION BY PROVIDING THREE FACTOR AUTHENTICATION							
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Traditional and Quantum Approaches Against Shor's Algorithm: A Review	Banishikha Banerjee, Dr. Aishwini Jani, Dr. Nivaj Shah	International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)	2, 2021	2	2582-7421	189-194	
Ginger – Based Herbal Wine With anti – Oxidant and Therapeutic Potential	Mr. Mihul Patel	International Journal of Research Publication and Reviews	12	July 2021	0976-3031	4266-4267	
Enhancing the Security of Spin Framework by Combining Min AES with Geocryptography	Mr. Mihul Patel	International Journal of Computer and Mobile Computing	9	Oct. 2020	2320-088x	45-63	
Enhancing the Security of ATM Transaction by Providing Three Factor Authentication	Mr. Mihul Patel	IJTIMES	6	Aug. 2021	2455-2585	01-May	
Potential Evaluation of Pd/Pt/Pan Membranes for Separation of Oil from Industrial Waste	Mr. Jigesh Mehta and Dr. Deepak Singh Panwar	The Open Chemical Engineering Journal	15	02, 2021	1874-1231	1-3	
Hydrocarbon generation and gasification study of valla lignite, Gujarat, India	Dr. Deepak Singh Panwar	Taylor & Francis	0	May, 2021	0	1-11	
Sensed- Lexicon based Approach for Identification of Similarity among Punjabi Documents	Dr. Jasleen Kaur, Mr. Jatinderkumar R Saini	IJACSA	12	5, 2021		530-537	
Lean and Industry 4.0 Strive to Create smart Factory Through Integration of System: an Exploration	Hardik Majwala	Advances in Intelligent systems and Computing (AISC)	1122	sep. 2020	2194-5357	184-195	

School of Nursing							
A Study to assess the knowledge and attitude regarding Organ Donation among the students studying in selected colleges of Ahmedabad, Gujarat State. With a view to developed an information booklet							
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Assess the Effectiveness of Information booklet on selected behavioral problems among school-going children in terms of knowledge of selected schools of primary schools teachers	Ms. Sejal Darbar Ms Rohini Chaudhari Ms. Pinal Patel	International Journal of Research and Analytical Reviews (IJRAR)	05ep. 2020	2348-1269		160-168	
A STUDY TO ASSESS THE EFFECTIVENESS OF STRUCTURED TEACHING PROGRAMS ON KNOWLEDGE REGARDING KANGAROO MOTHER CARE AMONG POSTNATAL MOTHERS IN SELECTED RURAL AREAS OF NAVSARI DISTRICT	Ms. Rohini T Chaudhri, Ms. Sejal Darbar, Mr. Kran Jadhav, Mr. Sherwin Christian, Ms. Darsana Chaudhari, Ms. Anjali R, Ms. Bindhya, Ms. Divyangana Patel, Ms. Sneha Patel, Ms. Yesha Tandel	International Journal of Research and Analytical Reviews (IJRAR)	7, 2020	Sep. 2020	2348-1269	169-171	
Use of Spirometer in post operative compliance in patients with Cardiac Surgery	Dr. Sateesh Biradar and Ms. Ashwini Patel	International Journal of Nursing Education and Research	8, 2020	Dec. 2020	2347-8640 2454-2660	1-4	
Antenatal care among Primii Mothers	Ms. Ashwini Patil and Dr. Sateesh Biradar	International Journal of Nursing Education and Research	8, 2020	Dec. 2020	2347-8640 2454-2661	1-3	
A Descriptive study to assess the practice of home remedies for common cold among the mothers of five children in selected rural area	Ms. Pooj. S	International Journal of Nursing Education and Research	Vol. 8,	Dec. 2020	2347-8640	492-494	
Relationship between Obesity and Cancer	Ms. Jince Mary Prasad	International Journal of All Research Education and Scientific Methods	Vol. 09	Aug. 2021	2455-6211	250-253	
Knowledge of Mothers Regarding the Nutrition for Under Five Children	Ms. Zeelba Rathod and Ms. Mayuri Vaidya	International Journal of All Research Education and Scientific Methods (IJARESM), ISSN:	Vol- 9,	Aug. 2021	2455-6211	485-490	
A STUDY TO ASSESS THE KNOWLEDGE REGARDING HOME CARE MANAGEMENT AMONG PATIENTS UNDERGOING CORONARY ARTERY BYPASS GRAFTING (CABG) ADMITTED IN A SELECTED HOSPITAL OF SURAT CITY IN GUJARAT STATE WITH VIEW TO DEVELOP INFORMATIONAL BOOKLET.	Ms. Mayuri Vaidya	Journal of Emerging Technologies and Innovative Research (JETIR)	Vol- 7,	Sep, 2020	2349-5162	1457-1460	
MIS-C: A CASE STUDY	Ms. Jannet Reena Purani	INTERNATIONAL JOURNAL OF ADVANCE RESEARCH AND INNOVATIVE IDEAS IN EDUCATION (IJARIE)	Vol- 7	2021	2395-4396	1789-1792	
A study to assess the effectiveness of the planned Teaching program on pre-marital genetic counseling (especially for preventing thalassemia and sickle cell anemia) in terms of knowledge among the second year students of Navguy Arts College, Surat.	Ms. Tanveer akhatun A Pathan and Ms. Mayuri Vaidya	International Journal of All Research Education and Scientific Methods (IJARESM)	Vol- 9	Aug. 2021	2455-6211	1419-1423	
A STUDY ON EFFECTS OF AIR POLLUTION ON HEALTH AND ENVIRONMENT	Ms. Komal Kolhe and Ms. Mayuri Vaidya	Journal of Information and Computational Science	Vol- 11	2021	1548-7741	211-215	
An Article on Pneumonia in Covid-19	Ms. Mayuri Vaidya and Ms. Zeel Rathod	Journal of Emerging Technologies and Innovative Research (JETIR)	Vol- 08	2021	2349-5162	626-633	

School of Physiotherapy							
MOBILE BOARD TRAINING VERSUS GRAVITY FORCE STIMULATION TRAINING IN IMPROVING DYNAMIC BALANCE IN CHILDREN WITH DOWN'S SYNDROME							
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Effectiveness of Combined Balance and Step Training Versus Task-Oriented Exercises with Sensory Input on Balance in Older Adults – A Comparative Study	Dr. Mona Patel	Indian Journal of Physiotherapy and Occupational Therapy	Vol.14	OCT -DEC 2020		73-78	
Effects of PNF Techniques Versus Balance Training on various surfaces to improve Balance in subjects with Stroke: A Comparative Study	Dr. Mona Patel and Dr. Samira Mulla	IJAR	8, Jun 2021	2	2348-1269	440-444	

School of Management							
MEASURING SERVICE QUALITY ON EDUCATIONAL SERVICES USING SERVQUAL MODEL							
Title of Books/ Chapter	Name of Authors	Name of Publisher	Year	ISBN	Page		
Awareness about limited Liability Partnership (LLP): A Survey on Chartered Accountants (CAs) of Surat City	Dr. Jainish A. Bhagat	International Multidisciplinary Research Journal	Vol. 05	April, 2021	2455-4642	38-49	
A Study of Problems faced by CUSTOMER During E Banking Transaction in Surat Region	Dr. Jainish A. Bhagat	International Multidisciplinary Research Journal	Vol. 05	July, 2021	2455-4642	50-63	

School of Architecture							
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New Age Theories for Architectural Practice	Mr. Sagar Desai	Flystone Publication, Surat	2021	978-81-95314-70-6		60	

Centre for Language Studies							
Perception of the effectiveness of webinars on English language teachers in Western India							
Title of Books/ Chapter	Name of Authors	Name of Publisher	Year	ISBN	Page		
	Dr. Ankita Khanna, Dr. Gaurav Thakarar	PSYCHOLOGY AND EDUCATION	58, 2021	April, 2021	1553- 6939	1782-1788	

Library							
Selection of Hardware and Software for Library Automation							
Title of Books/ Chapter	Name of Authors	Name of Publisher	Year	ISBN	Page		
	Dr. Falguni Prajapati	International Journal of Library and Information Studies	10, 2020	3	2231-4911	146-151	