

## Details of Ph.D. Publications in VMSBUTU

(till 13 July 2023)

Research Papers	Patents	Conference Papers
<p>1. Aqueous phase reforming of glycerol to 1, 2-propanediol over Pt-nanoparticles supported Hydrotalcite in absence of hydrogen, Chandrashekar Pendem, Piyush Gupta, Nisha Choudhary, Sarbjit Singh, Jagdish Kumar, Takehiko Sasaki, Arunabha Datta, Rajaram Bal. <i>Green Chemistry</i> 14 (2012) 3107 (IF: 8.506).</p> <p>2. K-Promoted Pt-Hydrotalcite catalyst for production of H<sub>2</sub> Aqueous phase reforming of Glycerol. Chandrashekar Pendem, Bipul Sarkar, Nazia Siddiqui, L. N. Sivakumar Konathala, Chinnappan Baskar, Rajaram Bal. <i>ACS Sustainable Chem. Eng.</i> 2018, 6, 2122-2131 (IF: 6.14).</p> <p>3. Single-step synthesis of hierarchical BxCN: a metal-free catalyst for low-temperature oxidative dehydrogenation of propane, Reena Goyal, Bipul Sarkar, Arijit Bag, Frederic Lefebvre, Siddharth Sameer, Chandrashekar Pendem and Ankur Bordoloi. <i>J. Mater. Chem. A</i>, 2016, 4, 18559–18569) (IF: 9.93)</p> <p>4. Promoting Effect of CeO<sub>2</sub> and MgO for CO<sub>2</sub> Reforming of Methane over Ni-ZnO Catalyst,</p>	<p>1. An improved process for the preparation of Cu-Cr oxides for selective oxidation reactions, Rajaram Bal, Bipul Sarkar, Shankha Shubhra Acharyya, Shilpi Ghosh, Chandrashekar Pendem, Jagdish Kumar, US8697916-B2; US 2013096351-A1; IN201102765-I1</p> <p>2. An improved process for the selective hydroxylation of benzene with molecular oxygen (air) over solid catalysts, Rajaram Bal, Shankha Shubhra Acharyya, Shilpi Ghosh, Bipul Sarkar, Karan Singh Rawat, Chandrasekhar Pendem, US 8772552 B2; US2013096351-A1; IN201102765-I1</p> <p>3. An improved process and catalyst for the selective oxidation of propyne to propylene oxide with molecular oxygen over solid catalysts, Rajaram Bal, Shankha Shubhra Acharyya, Shilpi Ghosh, Bipul Sarkar, Karan Singh Rawat, Chandrasekhar Pendem, WO 2013098855-A1; 201103824-I1.</p>	<p>1. Chandrashekar Pendem, Nazia Siddiqui, L N Sivakumar Konathala, Manoj Kumar and Rajaram Bal. Room temperature production of <math>\gamma</math>-valerolactone by hydrogenation of levulinic acid over Pt-hydrotalcite catalyst. 17th National Workshop, CSIR-IICT, Hyderabad, 23rd-25th June 2016. (Poster)</p> <p>2. Chandrashekar Pendem, Nazia Siddiqui, Rajaram Bal. Cu supported nano hydrotalcite as an efficient catalyst for levulinic acid hydrogenation. 22nd National Symposium on catalysis (CATSYMP-22) was held during 7-9th Jan, 2015 at CSIR-CSMCRI Bhavnagar. (Poster)</p> <p>3. Tumula Venkateswar Rao, sapna Bondwal, Priyanka Bisht, Pendem Chandrashekar and Jagdish Kumar. A simple and green method for oxidation of sulfides to sulfones with hydrogen peroxide. US Workshop on Green Chemistry for Environments and Sustainable Development,</p>

<p>Rajib K Singha, Aditya Yadav, Astha Shukla, Zafar Iqbal, Chandrashekar Pendem, Konathala Sivakumar, and Rajaram Bal, <i>Chemistry Select.</i> 2016, 1, 3075-3085 (IF:1.5)</p> <p>5. Partial oxidation of methane to synthesis gas over Pt nanoparticles supported on nanocrystalline CeO<sub>2</sub> catalyst. Rajib Kumar Singha, Shilpi Ghosh, ShankhaSubhraAcharyya, Aditya Yadav, Astha Shukla, Takehiko Sasaki, Anna Maria Venezia, Chandrashekar Pendem and Rajaram Bal. <i>Catal. Sci. Technol.</i>, 2016, 6, 4601-4615 (IF: 5.36)</p> <p>6. Highly ananodispersed Gd-doped Ni/ZSM-5 catalyst for enhanced carbon-resistant dry reforming of methane, Bipul Sarkar, Reena Goyal, Chandrashekar Pendem, Takehiko Sasaki, Rajaram Bal. <i>J. Mol. Catal. A: Chem.</i> 424 (2016) 17-26 (IF: 4.39)</p> <p>7. Synergistic Effect between Ultrasmall Cu (II) Oxide and CuCr<sub>2</sub>O<sub>4</sub> Spinel nanoparticles in Selective Hydroxylation of Benzene to Phenol with Air as Oxidant, Shankha Shubhra Acharyya, Shilpi Ghosh, Ritesh Tiwari, Chandrashekhar Pendem, Takehiko Sasaki, Rajaram Bal. <i>ACS Catalysis</i> 5 (2015) 2850 (IF: 9.312).</p> <p>8. Morphology - Controlled Synthesis of TiO<sub>2</sub> Nanostructures for</p>	<p>4. An improved process and catalyst for the selective dehydrodeantion / oxidative dehydrogenation of ethane to ethylene over solid catalyst, Rajaram Bal, Bipul Sarkar, Rajib Kumar Singha, Chandrasekhar Pendem, Shankha Shubhra Acharyya, Shilpi Ghosh, US2014128653-A1</p> <p>5. An improved coke resistant solid catalyst and process for the dry reforming of methane with carbon di-oxide, Rajaram Bal, Bipul Sarkar, Rajib Kumar Singha, Chandrasekhar Pendem, Shankha Shubhra Acharyya, Shilpi Ghosh, US2014145117-A1</p> <p>6. An improved process and catalyst for single step conversion of glycerol to acrylic acid, Rajaram Bal, Bipul Sarkar, Rajib Kumar Singha, Chandrasekhar Pendem, Shankha Shubhra Acharyya, Shilpi Ghosh, US2014128632-A1</p> <p>7. Improve process for the production of 1,2-propanediol without the addition of external hydrogen, Rajaram Bal, Chandrasekhar Pendem, Parijat Borah, Arunabha Datta, Indian patent: IN201100671-I1</p> <p>8. An improved process and catalyst for the selective</p>	<p>11th – 13th March, 2012 Hotel Pacific, Dehradun, India (Oral)</p> <p>4. Arunabha Datta, Chandrashekar Pendem, SmitaDarmora. Production of hydrogen by aqueous phase reforming of glycerol. ISFL-2010, New Delhi, march 2010, India (Oral).</p> <p>5. Chandrashekar Pendem, Piyush Gupta, SmitaDarmora, Arunabha Datta. Conversion of glycerol to 1,2 propanediol without addition of hydrogen by aqueous phase reforming. National Symposium on Catalysis (NSC-2010), IIT-Madras, Chennai, India. December - 2010 (Oral).</p> <p>6. Neelam Sharma, Dr. Karan Singh and Dr. B. M. Singh “Performance Analysis of Tree and Mesh Based multicast routing protocols in MANAET using NS-3” 13 October 2016, IEEE International Conference (ICACSE-2016), Published, conducted by Kamla Nehru Institute of Technology (KNIT), Sultanpur, Uttar Pradesh. Paper will be included at IEEE Xplore Digital Library, indexed with the world's leading Abstracting &amp; Indexing (A&amp;I) databases, including ISI, SCOPUS, DBLP, EI-</p>
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<p>Environmental Application Catalysis Communications, Bipul Sarkar, Reena Goyal, Nikita Singhal, Umesh KUMar, Ankur Bordoloi, Chandrashekar Pendem, RajaramBal.Catal. Comm. 74 (2016) 43 (IF: 3.699).</p> <p>9. Pt nanoparticle supported on nanocrystalline CeO<sub>2</sub>: Highly selective catalyst for up-gradation of phenolic derivatives present in bio-oil, Bipul Sarkar, Chandrashekar Pendem, L. N. Sivakumar Konathala, Takehiko Sasaki, Rajaram Bal. Journal of Materials Chemistry A 2 (2014) 18398 (IF: 8.262).</p> <p>10. Cu-nanoclusters supported on nanocrystalline SiO<sub>2</sub>-MnO<sub>2</sub>: a bifunctional catalyst for one step conversion of glycerol to acrylic acid, Bipul Sarkar, Chandrashekar Pendem, L. N. Sivakumar Konathala, Ritesh Tiwari, Takehiko Sasaki, Rajaram Bal. Chem. Commun. 50 (2014) 9707 (IF: 6.834).</p> <p>11. Selective Oxidation of Propylene to Propylene Oxide over Silver supported Tungsten Oxide Nanostructure with Molecular Oxygen, Shilpi Ghosh, Shankha Shubhra Acharyya, Ritesh Tiwari, Bipul Sarkar, Rajib Kumar Singha, Chandrasekhar Pendem, Takehiko Sasaki, Rajaram Bal. ACS Catalysis 4 (2014) 2169 (IF: 9.312).</p> <p>12. Preparation of CuCr<sub>2</sub>O<sub>4</sub> Spinel Nanoparticles Catalyst for Selective Oxidation of Toluene to Benzaldehyde. Shankha</p>	<p>hydrogenation of phenol and its derivatives, Rajaram Bal, Bipul Sarkar, Rajib Kumar Singha, Chandrasekhar Pendem, Shankha Shubhra Acharyya, Shilpi Ghosh, Reena Goyal, Shubasish Das, L.N. Sivakumar Konthala, US2015197421-A1 IN201400087-II</p> <p>9. An improved process and catalyst for syngas production by partial oxidation of methane, Rajaram Bal, Rajib Kumar Singha, Bipul Sarkar, Chandrasekhar Pendem, Shankha Shubhra Acharyya, Shilpi Ghosh, Reena Goyal, Shubasish Das, L.N. Sivakumar Konthala, (Indian patent &amp; US patent applied; Application No: 2705Del2014)</p> <p>10. Ni-MgO-ZnO catalyst for activation of methane and a process for the preparation thereof, Rajaram Bal, Rajib Kumar Singha, Bipul Sarkar, Chandrasekhar Pendem, Ankur Bordoloi, US2016059217-A1 IN201402508-II</p> <p>11. An improved process for the production of syngas by combining oxy- and dry reforming of natural gas over solid catalyst, Rajaram Bal, Bipul Sarkar, Reena Goyal, Ankur Bordoloi, Chandrashekar Pendem, L.</p>	<p>Compendex, Google Scholar, etc.</p> <p>7. Neelam Sharma, Dr. Karan Singh and Dr. B. M. Singh "Performance Analysis of Multicast Routing Protocols in MANAET using NS-3", 6th -7th October, 2016, IEEE International Conference (INCITE-2016), Published, conducted by department of Information Technology, Amity University, Nodia, Uttar Pradesh. Available at IEEE Xplore Digital Library, indexed with the world's leading Abstracting &amp; Indexing (A&amp;I) databases, including ISI, SCOPUS, DBLP, EI-Compendex, Google Scholar, etc.</p> <p>8. Neelam Sharma, Dr. Karan Singh and Dr. B. M. Singh "Designing of Reliable and Optimize Multicast Routing Protocols in MANAET" 12th-14th August, 2016, IEEE International Conference (IICIP-2016), Published, conducted by Computer Science and Engineering Department, Delhi Technological University (DTU), formerly known as Delhi College of Engineering, New Delhi. Available at IEEE Xplore Digital Library, indexed with the world's leading Abstracting &amp; Indexing (A&amp;I) databases, including</p>
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<p>Shubhra Acharyya, Shilpi Ghosh, Ritesh Tiwari, Bipul Sarkar, Rajib Kumar Singha, Chandrashekar Pendem, Takehiko Sasaki, Rajaram Bal. <i>Green Chemistry</i>, 16 (2014) 2500 (IF: 8.506).</p> <p>13. Preparation of CeO<sub>2</sub> Nanoparticles Supported on 1-D silica Nanostructures for Room Temperature Selective Oxidation of Styrene, Bipul Sarkar, Rajib Kumar Singha, Ritesh Tiwari, Shilpi Ghosh, Shankha Shubhra Acharyya, Chandrashekar Pendem, L. N. Sivakumar Konathala, Rajaram Bal. <i>RSC Advances</i>, 4 (2014) 5453 (IF: 3.840).</p> <p>14. Formation of ilmenite-type CoTiO<sub>3</sub> on TiO<sub>2</sub> and its performance in oxidative dehydrogenation of cyclohexane with molecular oxygen, Bipul Sarkar, Chandrashekar Pendem, L. N. Sivakumar Konathala, Takehiko Sasaki, Rajaram Bal. <i>Catal. Comm.</i> 56 (2014) 5 (IF: 3.699).</p> <p>15. Pt nanoparticles with tunable size supported on nanocrystalline ceria for the low temperature water-gas-shift (WGS) reaction, Ritesh Tiwari, Bipul Sarkar, Rahul Tiwari, Chandrashekar Pendem, Takehiko Sasaki, Sandeep Saran, Rajaram Bal. <i>J. Mol. Catal. A, Chem.</i> 395 (2014) 117 (IF: 3.309).</p> <p>16. Nanoparticles of ZrPO<sub>4</sub> for green catalytic applications, Peta</p>	<p>N. Sivakumar Konathala, (Indian patent &amp; US patent applied; Application No:2464Del2015).</p> <p>12. Nano Ni-Zr oxide catalyst for activation of methane by Tri-reforming and a process for the preparation thereof Rajaram Bal, Rajib Kumar Singha, Ankur Bordoloi, Chandrashekar Pendem &amp; L.N. Konathala Sivakumar, (Indian patent &amp; US patent applied; Application No:0280NF2014).</p> <p>13. An improved process for the production of <math>\alpha</math>-valerolactone by hydrogenation of levulinic acid over Pt-hydrothermal catalyst, Rajaram Bal, Chandrashekar Pendem, Nazia Siddiqui, Ankur Bordoloi, L.N. Sivakumar Konathala, Manoj Kumar, Sandeep Saran, (Indian patent &amp; US patent applied; Application No:2252Del2015).</p> <p>14. An improved process and catalyst for carbon monoxide oxidation in the absence and presence of excess hydrogen over Cu/CeO<sub>2</sub> catalyst, Rajaram Bal, Shubhadeep Adak, Chandrashekar Pendem, Ankur Bordoloi, (Indian patent &amp; US patent applied; Application No:4143Del2015).</p>	<p>ISI, SCOPUS, DBLP, EI-Compendex, Google Scholar, etc.</p> <p>9. Gupta V. &amp; Bhatia S. S. (2019). Empirical Study in the Validation of Cloud based ERP Framework, International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ICECEIC-2019)</p> <p>10. Arun Kumar, M. A. Ansari and Alaknanda Ashok, "Review of feature extraction and classification methods used in CAD system" has been accepted in IEEE conference (ICAC3N-20) presented at Sharda University, Greater Noida, India on 18-19 DEC, 2020.</p> <p>11. Arun Kumar, Alaknanda Ashok and M.A. Ansari, "Brain Tumor classification using Hybrid model of PSO and SVM classifier" presented in IEEE conference (ICACCCN-18) held at Galgotia College of Engineering and Technology, Greater Noida, India from 12-13 Oct, 2018.</p> <p>12. Arun Kumar and M.A. Ansari, "Feature Extraction in Medical Imaging", presented in IEEE conference (INDIACOM-17) SCOPUS indexed held at Bharti Vidyapeeth College, Delhi</p>
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<p>Sreenivasulu, Chandrasekhar Pendem, Nagabhatla Viswanadham, Nano Scale, 2014, 6, 14898-14902 (IF: 7.23).</p> <p>17. Partial oxidation of methane to synthesis gas over Ni-Supported Ceria catalyst, Rajib Kumar Singha, Astha Shukla, Shubhadeep Adak, Chandrashekar Pendem, Sandeep Saran, Rajaram Bal, Indian Journal of Chemistry 53A (2014) 467 (Invited article) (IF: 0.628).</p> <p>18. Pt nanoparticles supported on mesoporous ZSM-5: a potential catalyst for reforming of methane with carbon dioxide, Bipul Sarkar, Shashank Suman, Ritesh Tiwari, Rajib Kumar Singha, Shilpi Ghosh, Shankha, Shubhra Acharyya, L. N. Sivakumar Konathala, Chandrashekar Pendem, Kshudiram Mantri, Rajaram Bal* Indian Journal of Chemistry 51A (2012) 1348 (Invited article) (IF: 0.628).</p> <p>19. Room temperature selective oxidation of cyclohexane over Cu-nanoclusters supported on nanocrystalline Cr<sub>2</sub>O<sub>3</sub>; Bipul Sarkar, Pragati Prajapati, Rahul Tiwari, Ritesh Tiwari, Shilpi Ghosh, Shankha Shubhra Acharyya, Chandrashekar Pendem, Rajib Kumar Singha, L. N. Sivakumar Konathala, Jagdish Kumar, Takehiko Sasaki, Rajaram Bal* Green Chemistry 14 (2012) 2600 (IF: 8.506).</p> <p>20. Reforming of methane with</p>	<p>15. Power Theft Detection: Power Theft Detection and Notification Using Wireless Network, IP Australia</p> <p>16. Indian Patent Application No. 202011024973: Neelam Sharma, Dr. Brijmohan Singh, Dr. Karan Singh: ITCP- Wireless Sensor Network: Intelligent Transmission Control Protocol for Wireless Sensor Network. (Publication Date: 07/08/2020).</p> <p>17. Indian Patent Application No. 202011038372: Neelam Sharma, Dr. Brijmohan Singh, Dr. Karan Singh: HBTM-Temperature and Location Monitor: Human Body Temperature, Medical Alert and Location Monitor Using IoT- Based Technology (Publication Date: 09/10/2020)</p> <p>18. A System For Early Detection Of Hydrocephalus And Methods There Of <a href="https://ipindia.services.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus">https://ipindia.services.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus</a> (Patent Status: Published)</p> <p>19. Jai Kumar Mishra, Dr Kumud Upadhyay, Dr Sharad Visht, Dr Ramandeep Singh, Anita Kumari, Dr Hareesh Dara,</p>	<p>from 1-3 March 2017.</p> <p>13. Arun Kumar and M.A. Ansari, "Feature Extraction and its Application in Medical Imaging", presented in International Conference organized by Indian Society of Industrial &amp; Applied Mathematics at Sharda University, Noida in JAN, 2016.</p> <p>14. Sinha Divyanshu, Pandey J.P., Chauhan Bhavesh, 2022 "Hybrid Soft Computing Based Approach For Ageing In Face Recognition." In Proc. Of 2nd International Conference on Advance Computing and Innovative Technologies in Engineering IEEE</p> <p>15. Kumar Pravin, Sharma Dinesh Kumar, Ashawat Mahendra Singh, 2021. Formulation and evaluation of ethosomes of piperine for management of atopic dermatitis, Proceedings of the International Congress of Society for Ethnopharmacology, India, August 27-29, 2021, pp293.</p> <p>16. Chaudhary, N., Singh, H.P. and Dimri, P., 2020. "Comparative Study of Latent Fingerprint Image Segmentation Techniques Based on Literature Review", In Proc. Of 4th</p>
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<p>CO<sub>2</sub> over Ni nanoparticle supported on mesoporous ZSM-5, Bipul Sarkar, Ritesh Tiwari, Rajib Kumar Singha, Shashank Suman, Shilpi Ghosh, Shankha Shubhra Acharyya, L. N. Sivakumar Konathala, Chandrashekar Pendem, Kshudiram Mantri, Rajaram Bal*Catalysis Today 198 (2012) 209 (IF: 3.309).</p>	<p>Dr Amit Kumar Verma, Sunita Singh " USE OF IONIC TO NON-IONIC PLANT EXTRACTS OF ANDROGRAPHIS PANICULATA (KALMEGH) FOR RESISTANCE REVERSAL OF QUININE (EQ.) EFFICACY AT DOSE 20 MG/ KG AS ANTIMALARIAL USE IN CHLOROQUINE RESISTANT PLASMODIUM STRAIN AT DOSE RANGE 300 MG/ KG TO 1000 MG/ KG. Patent journal Application No.202111048343 A Publication Date: 26/11/2021. The Patent Office Journal , The Patent Office Journal No. 48/2021 Dated 26/11/2021.</p>	<p>International Confrence on Recent Advancement in Computer, Communion &amp; Computational Sciences, pp.391-399. (Accepted &amp; Presented on 16 August 2021).</p>
<p>21. Chhabra, S., and Singh, H. (2016). Simulink based fuzzified COCOMO. In Proceedings of the 2016 2nd International Conference on Contemporary Computing and Informatics, IC3I 2016.</p>	<p>20. Jai Kumar Mishra, Dr Kumud Upadhyay, USE OF IONIC TO NON-IONIC EXTRACTS OF BARK AND LEAVE OF AZADIRACHTA INDICA (NEEM) AT DOSE RANGE 300 MG/ KG TO 1000 MG/ KG FOR RESISTANCE REVERSAL TO ACHIEVE EFFICACY OF QUININE (EQ.) AT DOSE 20 MG/ KG IN CHLOROQUINE RESISTANT PLASMODIUM STRAIN OF DISEASE MALARIA. Patent journal Application No.202111048435 A. Publication Date:</p>	<p>17. Suman Pant , Dr. Yashwant S. Chauhan, Krishna Kumar Singh, Dr. J. N. Singh ,“Comparative Study of Rate of Convergence &amp; Complex Dynamics of Trigonometric Functions Using Jungck Ishikawa Iteration Scheme”,“INTERNATIONAL CONFERENCE ON COMPUTING COMMUNICATION AND AUTOMATION (ICCCA2017)”,May 2017,pp.202-209,IEEE Publications(Published),DOI: 10.1109/CCAA.2017.8229800.</p>
<p>22. Chhabra, S., and Singh, H. (2020). Optimizing Design of Fuzzy Model for Software Cost Estimation Using Particle Swarm Optimization Algorithm. International Journal of Computational Intelligence and Applications, 19(1).</p>	<p>18. Greeshma Arya, Ashish Bagwari and D S Chauhan, “Simulation of Extended Clustering K-means (ECK) Technique for Multi- Tier Hierarchical WSN”, is accepted for publication in Global Conference on Wireless &amp; Optical Technologies 2021(GCWOT’21). Feb2022.</p>	<p>19. Rawat, S., Jha, B., Panda, M.K. and Rath,</p>
<p>23. Chhabra, S., and Singh, H. (2020). Optimizing design parameters of fuzzy model based COCOMO using genetic algorithms. International Journal of Information Technology (Singapore), 12(4).</p>	<p>24. Padhi Swarupanjali, Mazumder Rupa, Bisth Shradha, “Development and Application of Lipid Nanotechnology on Infectious Diseases of CNS – Current Scenario”, Indian Journal of Pharmaceutical Education and Research, 53(3),</p>	<p>19. Rawat, S., Jha, B., Panda, M.K. and Rath,</p>

<p>355-365, Jul-Sep, 2019.</p> <p>25. Padhi Swarupanjali, Mazumder Rupa, Bisth Shradha, "Development of Reverse Phase Ultra-Fast Liquid Chromatography Using Ion-pairing reagent for Quantitative Assessment of Ceftriaxone in Rat Serum and Cerebrospinal Fluid", Current Pharmaceutical Analysis, 16, 2020.</p> <p>26. Performance Analysis of DSDV and OLSR Wireless Sensor Network Routing Protocols using FPGA Hardware and Machine Learning, Multimedia Tools and Applications, Springer Nature.</p> <p>27. Performance Analysis of AODV Routing for Wireless Sensor Network in FPGA Hardware, Computer Systems Science &amp; Engineering, Tech Science Press.</p> <p>28. Design of a Structured Hypercube Network Chip Topology Model for Energy Efficiency in Wireless Sensor Network Using Machine Learning, SN Computer Science, Springer Nature.</p> <p>29. Review of Energy Aware Routing Protocols for Wireless Sensor Networks, Int. Journal of Engineering Research and Application.</p> <p>30. Neelam Sharma, B.M Singh, Karan Singh (2020), "QoS-Based Energy-Efficient Protocols for Wireless Sensor Network" published in</p>	<p>26/11/2021, The Patent Office Journal , The Patent Office Journal No. 48/2021 Dated 26/11/2021</p> <p>21. Gaurav Agrawal, Ankur Dumka, Mayank Singh, Title of the invention: System And Method For Evaluating Usability and Accessibility of a Website. Application No: 202111059463 Date of Publication: 31/12/2021. Curriculum Vitae Gaurav Agrawal</p>	<p>B.B., 2016, April. Load frequency control of a renewable hybrid power system with simple fuzzy logic controller. In 2016 International Conference on Computing, Communication and Automation (ICCCA) pp.918-923 IEEE.</p> <p>20. Kothiyal, P., Joshi, A. &amp; Mer, K. K. Processing, potential and property of nanocomposite: A review. International conference on Advances in computing, communication &amp; Materials (ICACCM-2020)</p> <p>21. Malik, Gorav Kumar, Yatindra Kumar, and Manoj Panda. "Cardiac arrhythmia detection in ECG signals by feature Extraction and support vector machine" RICE. 2017. Selected and Reviewed paper published in journal-Web. Annals of Computer Science and Information Systems. Malik, G. K., Kumar, Y., &amp; Panda, M. (2017). Cardiac arrhythmia detection in ECG signals by feature Extraction and support vector machine.241-244.</p> <p>22. G.K., Kumar Y., Panda M. (2021). "Multikernel SVM approach for arrhythmias classification" Integrated Intelligence Enable Networks and</p>
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<p>Sustainable Computing: Informatics and Systems, Elsevier, USA, August 2020, [SCIE- Impact Factor: 2.798], ISSN: 2210-5379 DOI: <a href="https://doi.org/10.1016/j.suscom.2020.100425">https://doi.org/10.1016/j.suscom.2020.100425</a>.</p> <p>31. Neelam Sharma, B.M Singh, Karan Singh (2020), Research Paper entitled “A Novel Hybrid Clustering Based Transmission Protocol for Wireless Body Area Networks” Published in Journal of CMC-Computers, Materials &amp; Continua, USA, [SCIE Impact Factor: 4.98], ISSN:1546-2226.</p> <p>32. Neelam Sharma, B.M Singh, Karan Singh (2020), Research Paper entitled “Analysis of Packet Transmission Protocols for Multimedia Applications of WBANS in Cognitive Behavioral Therapy”, Published in Multimedia Tools and Applications, publisher-Springer, USA, ISSN: 1573-7721, [SCIE-Impact Factor: 2.917].</p> <p>33. Neelam Sharma, Karan Singh and B. M. Singh “Sectorial Stable Election Protocol for Wireless Sensor Networks”, published in Journal of Engineering Science and Technology (JESTEC), School of Engineering, Taylor’s University, Malaysia. Vol. 13, No. 5, pp: 1222 – 1236, May 2018. [ESCI, Scopus, SCImago, DBLP].</p> <p>34. Neelam Sharma, Karan</p>		<p>Computing. Institute Of Technology, Gopeshwar, 2021. Selected and Reviewed paper published in- Algorithms for Intelligent Systems. Springer, Singapore. G.K., Kumar Y., Panda M. (2021) ”Multi-kernel SVM Approach for Arrhythmia’s Classification. Proceedings of Integrated Intelligence Enable Networks and Computing”. Algorithms for Intelligent Systems. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-33-6307-676">https://doi.org/10.1007/978-981-33-6307-676</a>.</p> <p>23. Nainwal, Ashish, Yatindra Kumar, and Bhola Jha. ”Morphological changes in congestive heart failure ECG.” 2016 2nd International Conference on Advances in Computing, Communication, &amp; Automation (ICACCA)(Fall). IEEE, 2016.</p> <p>24. Nainwal, Ashish, Yatindra Kumar, and Bhola Jha. ”ECG Classification Using DNN and GA Optimized Algorithm.” Proceedings of Integrated Intelligence Enable Networks and Computing. Springer, Singapore, 2021. 521-527.</p> <p>25. Nainwal, Ashish,</p>
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