

**Department of Physics and Computer Science  
Faculty of Science  
Dayalbagh Educational Institute (Deemed University)**

**List of Publications 2013 - 2019**

<b>S. No.</b>	<b>Title of paper</b>	<b>Name of the author/s</b>	<b>Name of journal</b>	<b>Year</b>	<b>IF</b>
<b>1</b>	Quantum dots sensitization for photoelectrochemical generation of hydrogen: A review	Sonal Sahai, Ashi Ikram, Snigdha Rai, Sahab Dass, Rohit Shrivastav and Vibha R. Satsangi	Renewable Energy and Sustainable Energy Reviews, 68, 19–27, 2017	2017	10.556
<b>2</b>	Enhancing Efficiency of Fe <sub>2</sub> O <sub>3</sub> for Robust and Proficient Solar Water Splitting by Using Highly Dispersed Bioinspired Catalyst	Anamika Banerjee, Biswajit Mondal, Anuradha Verma, Vibha R. Satsangi, Rohit Shrivastav, Abhishek Dey, Sahab Dass	Journal of Catalysis, 352, 83-92, 2017	2017	7.723
<b>3</b>	Enhanced Photoelectrochemical Response of Plasmonic Au Embedded BiVO <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> Heterojunction	Anuradha Verma, Anupam Srivastav, Saif A. Khan, Vibha Rani Satsangi, Rohit Shrivastav, Devesh Kumar Avasthi, Sahab Dass	Physical Chemistry and Chemical Physics, 19, 15039, 2017	2017	3.906

4	Electronic Band-offsets across Cu <sub>2</sub> O/BaZrO <sub>3</sub> Heterojunction and its Stable PhotoElectro-Chemical Response: First-principles Theoretical Analysis and Experimental Optimization	Dipika Sharma, Biswarup Satpati, Vibha R. Satsangi, Rohit Shrivastav, Umesh V. Waghmare and Sahab Dass	Renewable Energy, DOI: 10.1016/j.renene.2017.06.022, 2017	2017	5.439
5	CNT based photoelectrodes for PEC generation of hydrogen : A Review	Snigdha Rai, Ashi Ikram, Sonal Sahai, Sahab Dass, Rohit Shrivastav and Vibha R. Satsangi	Journal of Hydrogen Energy, 42 (7), 3994-4006, 2017	2017	4.229
6	Turbulent amplification of magnetic field in laser plasma interaction and astrophysical plasmas	PremPyariTiwary, Swati Sharma, Ram Kishor Singh, Anju Kumari, V. R. Satsangi, and R. P. Sharma,	Physics Of Plasmas, 24, 062312 (2017)	2017	1.913
7	Improved Charge Transportation at PbS QDs/TiO <sub>2</sub> Interface for Efficient PEC Hydrogen Generation	Ashi Ikram, Sonal Sahai, Snigdha Rai, Sahab Dass, Rohit Shrivastav and Vibha R. Satsangi,	Physical Chemistry Chemical Physics, 2016, DOI: 10.1039/C6CP00854B	2016	3.906

<b>8</b>	Nanostructured BaTiO <sub>3</sub> /Cu <sub>2</sub> O heterojunction with improved photoelectrochemical activity for H <sub>2</sub> evolution: Experimental and first-principles analysis	Dipika Sharma, Sumant Upadhyay, Vibha R. Satsangi, Rohit Shrivastav, Umesh V. Waghmare, Sahab Dass	Applied Catalysis B: Environmental; 189, 75–85,	2016	14.229
<b>9</b>	A study on the effect of low energy ion beam irradiation on Au/TiO <sub>2</sub> system for its application in photoelectrochemical splitting of water	Anuradha Verma, Anupam Srivastav, Anamika Banerjee, Dipika Sharma, Shailja Sharma, Udai Bhan Singh, Vibha Rani Satsangi, Rohit Shrivastav, Devesh Kumar Avasthi, Sahab Dass,	Nuclear Instruments and Methods in Physics Research Section B Beam Interactions with Materials and Atoms ·	2016	1.21
<b>10</b>	Plasmonic Layer Enhanced Photoelectrochemical Response of Fe <sub>2</sub> O <sub>3</sub> Photoanodes	Anuradha Verma, Anupam Srivastav, Anamika Banerjee, Dipika Sharma, Shailja Sharma, Udai Bhan Singh, Vibha Rani Satsangi, Rohit Shrivastav, Devesh Kumar Avasthi, Sahab Dass	Journal of Power Sources, DOI: 10.1016/j.jpowsour.2016.03.004, 2016	2016	7.467
<b>11</b>	Gradient doping – a case study with Ti-Fe <sub>2</sub> O <sub>3</sub> towards an improve photoelectrochemical response	Anupam Srivastav, Anuradha Verma, Anamika Banerjee, Saif A. Khan, Mukul Gupta, Vibha Rani Satsangi , Rohit Shrivastav, Sahab Dass	Physical Chemistry and Chemical Physics, 18, 32735, 2016	2016	3.906

<b>12</b>	A low-cost, sulfurization free approach to control optical and electronic properties of Cu <sub>2</sub> ZnSnS <sub>4</sub> via precursor variation,	Saatviki Gupta, Thomas J. Whittles, Yogita Batra, Vibha Satsangi, Satheesh Krishnamurthy, Vinod R. Dhanak, Bodh Raj Mehta	Solar Energy Materials and Solar Cells, Vol. 157, Pages 820–830, 2016	2016	6.019
<b>13</b>	Photoactivity of MWCNTs modified $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> photoelectrode towards efficient solar water splitting,	Snigdha Rai, Ashi Ikram, Sonal Sahai, Sahab Dass, Rohit Shrivastav and Vibha R. Satsangi	Renewable Energy, 83, 447-454, 2015	2015	5.439
<b>14</b>	Chemically etched ZnO thin films, with surface-evolved nano-ridges, for efficient photoelectrochemical splitting of water	Babita Kumari, Shailja Sharma, Nirupama Singh, Vibha R. Satsangi, Sahab Dass, Rohit Shrivastav,	Journal of Solid State Electrochemistry, 19(5), 1311-1320, 2015	2015	2.531
<b>15</b>	Spray pyrolytically deposited Fe-doped Cu <sub>2</sub> O thin films for solar hydrogen generation: Experiments & first-principles analysis	Sumant Upadhyay, Dipika Sharma, Vibha R. Satsangi, Rohit Shrivastav, Umesh V. Waghmare,	Materials Chemistry and Physics, 160, 32-39, 2015	2015	2.781

<b>16</b>	Nanostructured Ti-Fe <sub>2</sub> O <sub>3</sub> /Cu <sub>2</sub> O heterojunction photoelectrode for efficient hydrogen production	Dipika Sharma, Sumant Upadhyay, Anuradha Verma, Vibha R. Satsangi, Rohit Shrivastav, Sahab Dass,	Thin Solid Films, 574, 125-131, 2015	2015	1.888
<b>17</b>	Surface deposition of Ag and Au nano-isles on ZnO thin films yields enhanced photoelectrochemical splitting of water	Babita Kumari, Shailja Sharma, Vibha R. Satsangi, Sahab Dass, Rohit Shrivastav,	Journal of Applied Electrochemistry, 45( 4) , 299-312, 2015.	2015	2.366
<b>18</b>	Enhanced photoelectrochemical conversion performance of ZnO quantum dots sensitized alpha-Fe <sub>2</sub> O <sub>3</sub> thin films	Ashi Ikram, Sonal Sahai, Snigdha Rai, Sahab Dass, Rohit Shrivastav and Vibha R. Satsangi	International Journal of Hydrogen Energy, 40(16), 5583-5592, 2015	2015	4.084
<b>19</b>	Nanoscale interface mapping of a CdS-CZTS single nanorod heterojunction using Kelvin probe force microscopy	Gupta S., Varandani D., Sharma A.K., Satsangi V.R., Mehta B.R	Applied Surface Science, 327-332, 331, 2015	2015	5.155

<b>20</b>	Spatio-temporal evolution of magnetosonic wave in the laser plasma interaction	R. P. Sharma, Prem Pyari Tiwary, K. V. Modi, Ram Kishor Singh, Swati Sharma, and V. R. Satsangi	Physics Of Plasmas, 22, 052307 (2015)	2015	1.913
<b>21</b>	Nanostructured SrTiO <sub>3</sub> thin films sensitized by Cu <sub>2</sub> O for photoelectrochemical Hydrogen Generation	Dipika Sharma, Anuradha Verma, V.R.Satsangi, Rohitshrivastav, Sahab Dass	International journal of Hydrogen Energy, 2014.	2014	4.084
<b>22</b>	Photoelectrochemical splitting of water with nanocrystalline Zn <sub>1-x</sub> Mn <sub>x</sub> O thin films: First-principle DFT computations supporting the systematic experimental endeavor,	Vidhika Sharma, Mudit Dixit, Vibha R. Satsangi, Sahab Dass, Sourav Pal, Rohit Shrivastav	Int. J. Hydrogen Energy. 2014	2014	4.084
<b>23</b>	Nanocrystalline Zn <sub>1-x</sub> Ag <sub>x</sub> O thin films evolved through electrodeposition for photoelectrochemical splitting of water	Nirupama Singh, Surbhi Choudhary, Sumant Upadhyay, Vibha R. Satsangi, Sahab Dass, Rohit Shrivastav	J Solid State Electrochem, 2014.	2014	2.531

<b>24</b>	Morphological, optical and photoelectrochemical properties of Fe <sub>2</sub> O <sub>3</sub> -GNP composite thin films	Snigdha Rai, Ashi Ikram, Sonal Sahai, Sahab Dass, Rohit Shrivastav and Vibha R. Satsangi	RSC Adv., 2014	2014	3.049
<b>25</b>	CdSe quantum dots sensitized nanoporous hematite for photoelectrochemical generation of hydrogen	Sonal Sahai, Ashi Ikram, Snigdha Rai, Sahab Dass, Rohit Shrivastav and Vibha R. Satsangi	International Journal of Hydrogen Energy .201411860–11866	2014	4.084
<b>26</b>	Synergistic effect of CdSe quantum dots on photoelectrochemical response of electrodeposited $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> films	Ashi Ikram, Sonal Sahai, Snigdha Rai, Sahab Dass, Rohit Shrivastav and Vibha R. Satsangi,	Journal of Power Sources 06/2014; 267:664-672	2014	7.467
<b>27</b>	Electrodeposition and sol-gel derived nanocrystalline N-ZnO thin films for photoelectrochemical splitting of water: Exploring the role of microstructure	Nirupama Singh, Babita Kumari, Shailja Sharma, Surbhi Chaudhary, Sumant Upadhyay, Vibha R. Satsangi, Sahab Dass Rohit Shrivastav	Int. Journal of renewable energy. Volume 69 September 2014	2014	3.12

<b>28</b>	Experimental and first-principles theoretical studies on Ag-doped cuprous oxide as photocathode in photoelectrochemical splitting of water.	Sumant Upadhyay, Dipika Sharma, Nirupama Singh, Vibha R. Satsangi, Rohit Shrivasta, Umesh V. Waghmare, Sahab Dass	J Material Science.(2014) J Mater Sci DOI 10.1007/s10853-013-7770-2	2014	3.442
<b>29</b>	Nanostructured CuO/SrTiO <sub>3</sub> bilayered thin films for photoelectrochemical water splitting	Surbhi Choudhary, Anjana Solanki, Sumant Upadhyay, Nirupama Singh, Vibha R. Satsangi, Rohit Shrivastav, Sahab Dass,	Journal of Solid State Electrochemistry, 007/s10008-013-2139-7, 2013	2013	2.531
<b>30</b>	Enhanced photoelectrochemical properties of 100 MeV Si <sup>8+</sup> ion irradiated barium titanate thin films	Anjana Solanki, Surbhi Choudhary, Vibha R. Satsangi, Rohit Shrivastav, Sahab Dass	Journal of Alloys and Compounds, vol. 561, Pages 114-120, 2013	2013	4.175
<b>31</b>	Modified structural, morphological and photoelectrochemical properties of 120 MeV Ag <sup>9+</sup> ion irradiated BaTiO <sub>3</sub> thin films	Anjana Solanki, Jaya Shrivastava, Sumant Upadhyay, Surbhi Choudhary, Vidhika Sharma, Poonam Sharma, Pushpendra Kumar, Praveen Kumar, Sheryl Ehrman, Vibha R. Satsangi, Rohit Shrivastav, Sahab Dass	Current Applied Physics 13 (2013) 344-350.	2013	2.01



<b>32</b>	Study of charge separation and interface formation in a single nanorod cdS-Cu(x)S hetrojunction solar cell using Kelvin probe force microscopy	S. Gupta, Y Batra, B. R. Mehta, V. R. Satsangi,	nanotechnology, 24(25):255703. doi: 10.1088/0957-4484/24/25/255703,	2013	3.399
<b>33</b>	<a href="#">Adaptive Neuromorphic Circuit for Stereoscopic Disparity Using Ocular Dominance Map</a>	S Sharma, P Gupta, CM Markan	Neuroscience Journal	2016	6.074
<b>34</b>	<a href="#">On Evolution and the Quantum and Classical Regimes in Brain Function</a>	P Gupta, CM Markan	Journal of Consciousness Studies 22 (5-6), 23-51	2015	0.78
<b>35</b>	<a href="#">An adaptable neuromorphic model of orientation selectivity based on floating gate dynamics</a>	P Gupta, CM Markan	Frontiers in neuroscience 8 (impact 4.48)	2014	3.566
<b>36</b>	<a href="#">Exploring a quantum-Hebbian approach towards learning and cognition</a>	P Gupta, CM Markan	NeuroQuantology 11 (3)	2013	0.697

37	<a href="#">An adaptive neuromorphic model of ocular dominance map using floating gate 'synapse'</a>	CM Markan, P Gupta, M Bansal	Neural Networks 45, 117-133 (impact 5.287)	2013	5.785
38	<a href="#">Remote Laboratories-A Cloud Based Model for Teleoperation of Real Laboratories.</a>	CM Markan, S Gupta, S Mittal, G Kumar	Intl Journal of Online Engineering (IJOE) 9 (2), 36-43	2013	
39	<a href="#">Remote Triggered Analog Communication Electronics Laboratory for e-Learning</a>	CM Markan, G Kumar, S Mittal, S Gupta	Intl Journal of Online Engineering (IJOE) 9 (2), 48-55	2013	
40	<a href="#">Implementing Cepstral Filtering Technique using Gabor Filters</a>	S Sharma, H Agarwal, CM Markan	Electronic Letters on Computer Vision & Image Analysis 11 (1)	2013	0.269
41	Design of Field-programmable Operational Transresistance Amplifier using Floating-gate MOSFET's	G Kapur, Sajal M, C M Marken, V P Pyara	Microelectronics and solid state electronics, 2013, 2(2) 11-23	2013	

<b>42</b>	Theoretical optimization of high-frequency optogenetic spiking of red-shifted very fast-Chrimson-expressing neurons.	Gupta, N., Bansal, H. and Roy, S.	Neurophotonics	2019	4.129
<b>43</b>	Theoretical analysis of low-power fast optogenetic control of firing of Chronos-expressing neurons.	S. Saran, N. Gupta, S. Roy	Neurophotonics	2018	4.129
<b>44</b>	Optimization of ultrafast reverse saturable to saturable absorption transition in ru dioxolene complex for all-optical logic applications	C. Yadav and S. Roy	Optical & Quantum Electronics	2017	1.547
<b>45</b>	Ultrafast nonlinear absorption in hemoprotein cytochrome-c and its application to computing	C. Yadav and S. Roy	Opt. Quant. Electron.	2016	1.547
<b>46</b>	Ultrafast all-optical universal logic gates with graphene and graphene-oxide metal porphyrin	C. Yadav and S. Roy	J. Comput. Electron.	2016	1.431

	composites				
<b>47</b>	All-optical sub-ps switching and parallel logic gates with Bacteriorhodopsin (BR) protein and BR-gold nanoparticles	S. Roy and C. Yadav	Laser Phys Lett.	2015	2.328
<b>48</b>	Ultrafast all-optical flip-flops, simultaneous comparator-decoder and reconfigurable logic unit with silicon microring resonator switches	P. Sethi and S. Roy,	IEEE J. Sel. Top. Quantum Electron.	2014	3.465
<b>49</b>	All-optical ultrafast switching in 2 x 2 silicon microring resonators and its application to reconfigurable DEMUX/MUX and reversible logic gates	P. Sethi and S. Roy,	IEEE/OSA J. Lightwave Technol.	2014	3.652
<b>50</b>	Femtosecond all-optical parallel logic gates based on tunable saturable to reverse saturable absorption in graphene-oxide thin films	S. Roy and C. Yadav	Appl. Phys. Lett.	2014	3.521

<b>51</b>	Fungicidal response of a novel natural photosensitizer (Beta vulgaris) on Candida albicans with low-power laser radiation	S. Mittal, S. Roy and J.N. Srivastava	Laser Physics	2013	1.231
<b>52</b>	All-optical ultrafast XOR/XNOR logic gates, binary counter and double-bit comparator with silicon microring resonators	P. Sethi and S. Roy,	Appl. Opt. [1.791]	2013	
<b>53</b>	An algorithm for solving cost time trade off pair in quadratic fractional transportation problem with impurity restriction	Nidhi Verma Arya and Preetvanti Singh	International Research Journal of Engineering and Technology	2018	7.211
<b>54</b>	Eradicating Karma to attain Super Consciousness by the Radhasoami Faith Approach	Dharam Pal Satsangi, Preetvanti Singh, P. K. Saxena	IOSR Journal of Humanities and Social Sciences, 23(8), pp 33-48	2018	4.621
<b>55</b>	A hybrid decision support model using axiomatic fuzzy set theory in AHP and TOPSIS for	Sunil Pratap Singh and Preetvanti Singh	Complex & Intelligent Systems , 4(2), pp 133–143	2018	

	multicriteria route selection				
56	Hospital performance management: A multi-criteria decision-making approach	Aman Tyagi and Preetvanti Singh	International Journal of Healthcare Management, 1-6	2017	
57	Using DEMATEL Method for Cause-Effect Relationship among Various Types of Personality Disorder	Nidhi Verma Arya and Preetvanti Singh	Advances in Economics and Business Management (AEBM), 4(6), pp. 385-289	2017	4.23
58	Tourism Demand Forecasting and Management	Vijai Dev, Aman Tyagi and Preetvanti Singh	International Journal of Business and Management Invention 6(2) PP—01-09 (IF: 4.72)	2017	4.72
59	A Multi-criteria Decision Analysis for Youth Violence	Vijai Dev, Preetvanti Singh	International Journal of Application or Innovation in Engineering & Management (IJAIEM), 6(1), pp. 043-051	2017	4.046
60	Integrated Analytical Hierarchy Process with SWOT Analysis for Women Education	Nidhi Verma Arya and Preetvanti Singh	International Journal of Management and Applied Science (IJMAS) , 2(11), pp. 164-167	2016	4.1

<b>61</b>	Sustainable Transportation Planning: A Multi-Criteria Decision Making Approach	Nidhi Verma Arya and Preetvanti Singh	International Journal of Management and Applied Science (IJMAS) , 4(2) pp. 10-14	2016	4.1
<b>62</b>	Role of Geographical Information Systems in Tourism Decision Making Process: A Review	Preetvanti Singh	Information Technology & Tourism, 15(2), PP. 129-179.	2015	
<b>63</b>	Multiple-Objective Fractional Costs Transportation Problem with Bottleneck Time and Impurities	Preetvanti Singh	Journal of Information & Optimization Sciences, 36(5), PP. 421-449	2015	
<b>64</b>	A Soft Hierarchical Process Approach for Decision Making in a Supply Chain	Rajeev Dhingra and Preetvanti Singh	Journal of Supply Chain Management Systems, 4 (1/2), PP. 421-449	2015	7.125
<b>65</b>	Using Multicriteria Futuristic Fuzzy Decision Hierarchy in SWOT Analysis – An Application in Tourism Industry	Sunil Pratap Singh, Manoj Kr. Chauhan and Preetvanti Singh	International Journal of Operations Research and Information Systems, 6 (4), PP. 38-56	2015	
<b>66</b>	ACS: Asthma Care Services with the help of Case Base Reasoning Technique	Aman Tyagi and Preetvanti Singh	Procedia Computer Science, 48, PP. 561-567	2015	1.078

<b>67</b>	A Study on Sustainable Production Measures for Wheat and Rice of Dayalbagh, Agra with Climate Variations	K. Vasantha and Preetvanti Singh	Indian Journal of Economics and Development, 11 (1), PP. 379-385	2015	4.301
<b>68</b>	Design and Implementation of a Location-Based Multimedia Tourist Guide System	Sunil Pratap Singh and Preetvanti Singh	International Journal of Information and Communication Technology, 7(1), PP. 40-51	2015	
<b>69</b>	Prioritization and decision making in supply chain	Rajeev Dhingra, Sambhu Sharma, Preetvanti Singh	Mathematical Science International Research Journal	2014	
<b>70</b>	Asthma Diagnosis and Level of Control using Decision Tree and Fuzzy System	Aman Tyagi and Preetvanti Singh	International Journal of Biomedical Engineering and Technology, 16 (2), PP. 169-181	2014	
<b>71</b>	Empowerment of Women in India: A Multi-Criteria Decision Making Approach	Preetvanti Singh	International Journal of Information and Decision Sciences, 6(3), PP. 293-314	2014	2.862
<b>72</b>	Modeling a Geo-Spatial Database for Managing Travelers' Demand	Sunil Pratap Singh and Preetvanti Singh	International Journal of Database Management Systems, 6(2), PP. 39-47,	2014	2.121
<b>73</b>	Mapping Spatial Data on the Web Using Free and	Sunil Pratap Singh and Preetvanti Singh	Journal of Geographic Information System, 6(1),	2014	3.545



	Open-Source Tools: A Prototype Implementation		PP. 30-39,		
<b>74</b>	Maintaining the Biodiversity of Informal Protected Areas: A Collaborative Conservational Approach	Mugdha Singh, Ashok Kumar Sinha and Preetvanti Singh	International Journal of Conservation Science, 5(1), PP. 107-116	2014	
<b>75</b>	Knowledge-Base Medical Decision Support System for Knee Pain Management	Preetvanti Singh	Indian Journal of Public Health Research and Development, 4(4), PP. 194-199	2013	6.405
<b>76</b>	Applying Kriging Approach on Pollution Data using GIS Software	Aman Tyagi and Preetvanti Singh	International Journal of Environmental Engineering and Management,4(3), PP. 185-190.	2013	1.021
<b>77</b>	“Effective Color image watermarking scheme using YCbCr Color space and QR code”	C. Patvardhan, Pragyesh Kumar C. Vasantha Lakshmi	Multimedia tools and applications, Springer	2018	2.101
<b>78</b>	“ Data Analytics based Deep Mayo predictor for IPL”	C. Deep Prakash C. Patvardhan C. Vasantha Lakshmi	IJCA Volume 152, No. 6	2016	3.5247
<b>79</b>	“MAYO index for Deep Analytics of Price and Performance of IPL	C. Deep Prakash C. Patvardhan C. Vasantha Lakshmi	IJCA Volume 150, No. 2	2016	3.5247

	Players”,				
80	“ Team selection strategy in IPL 9 using Random Forests algorithm”	C. Deep Prakash C. Patvardhan C. Vasantha Lakshmi	IJCA Volume 139, No. 12	2016	3.5247
81	“Identification of Modifier Component in Upper and Lower Zone of Devanagari Character”	Manoj Kumar Gupta, C. Vasantha Lakshmi, C. Patvardhan	International Journal of Advanced Research in Sciences and Engineering (IJARSE), Volume 5, Issue 3	2016	
82	“Hybrid DWT-SVD based Digital Color Image Watermarking”	C. Patvardhan, Pragyesh Kumar, C. Vasantha Lakshmi	International Journal of Electronics, Electrical and Computational Systems”,(IJEECS), Volume 5, Issue2	2016	2.52
83	“A skeletonization algorithm for Printed Multi-font OCR of Telugu Characters”	Sarika Singh, C. Vasantha Lakshmi, C. Patvardhan	International Journal of Computer and Mathematical Sciences, IJCMS, Volume 5, Issue 2	2016	
84	“Identification and Use of Touching Point Structural Property for Piece wise Classification of Devanagari Characters”	Manoj Kumar Gupta, C. Vasantha Lakshmi, C. Patvardhan	International Journal of Computer & Mathematical Sciences (IJCMS), , Volume 5, Issue 2	2016	
85	”Classification of Devanagari characters based on left surface	Manoj Kumar Gupta, C. Vasantha Lakshmi, C. Patvardhan	” International Journal of Recent Scientific Research (IJRSR)	2016	7.383

	cavity, , Volume 7, Issue 2, February 2016, pp. 8741 – 8746				
<b>86</b>	“Identification of Character Pattern in Devanagari Words for Enhancement of Recognition Accuracy”,	Manoj Kumar Gupta, C. Vasantha Lakshmi, C. Patvardhan	Advances in Computer Science and Information Technology (ACSIT), Volume 3 Issue 1	2016	4.236
<b>87</b>	“System for OCR of printed Telugu Text in Complicated layouts and backgrounds”	C. Vasantha Lakshmi, Sarika Singh, C. Patvardhan	International Journal of Electronics, Electrical and Computational Systems”, (IJEECS), Volume 5, Issue1	2016	2.52
<b>88</b>	“Classification of Devanagari Characters based on Water bodies”,	Manoj Kumar Gupta, C. Vasantha Lakshmi, C. Patvardhan	International Journal of Computer and Mathematical Sciences, IJCMS, Volume 5, Issue 1	2016	
<b>89</b>	An exhaustive font and size invariant classification scheme for OCR of Devanagari Characters	Manoj Kumar Gupta, C. Vasantha Lakshmi, M. Hanmandlu, C. Patvardhan	International Journal on Natural Computing, Vol. 4 No.1	2015	0.86
<b>90</b>	“Robust Adaptive Watermarking Based On Image Contents Using Wavelet Technique	Ajay Verma, C Patvardhan, C Vasantha Lakshmi	International Journal of Image, Graphics and Signal Processing (IJIGSP)	2015	

<b>91</b>	Spectral shift in retinal Chromophore of bacteriorhodopsin (bR) protein in different medium	Kumar, Satish, Jangid, Ashok	JETIR	2019	5.87
<b>92</b>	Comparative study of the photostability of two glycine molecules in different medium	Kumar, Satish, Jangid, Ashok	MRS Advances	2019	1.726
<b>93</b>	Study of biomolecules at CASSCF/NEVPT2 level of theory	Kumar, Satish, Jangid, Ashok	SSRG- International Journal of Applied Physics	2018	1.59
<b>94</b>	Characterization of black carbon in the ambient air of Agra, India: Seasonal variation and meteorological influence	P Gupta, SP Singh, A Jangid, R Kumar	Advances in Atmospheric Sciences 34 (9), 1082-1094	2017	1.338
<b>95</b>	Cloud Computing: Outsourcing Resources without Outsourcing Control	Viney Sharma and Gur Mauj Saran Srivastava	International Journal of Advanced Computing, Recent Science Publications (Impact Factor : 2.31)	2013	1.324
<b>96</b>	Genetic algorithm based approach to study aligned magnetic field with unsteady forced convection	P Singh, A Rani, A Jangid	CSI transactions on ICT 4 (2-4), 235-239	2016	10.435

<b>97</b>	Evolution and Present Status of Cloud Computing: A Comprehensive Analysis	Viney Sharma and Gur Mauj Saran Srivastava	International Journal of Business Information Systems, Inderscience Publishers (Scimago Journal & country Rank(SJR) : 0.26)	2016	
<b>98</b>	Efficient computation of resonant frequency of rectangular microstrip antenna using a neural network model with two stage training	Guru Pyari Jangid, Gur Mauj Saran Srivastava and Ashok Jangid	International Journal of Computer Science Issues (IJCSI)	2013	0.242
<b>99</b>	Parallel Interval Type-2 Subsethood Neural Fuzzy Inference System	V. Sumati, P. Chellapilla, S. Paul, L. Singh	Expert Systems with Applications: An International Journal	2016	4.292
<b>100</b>	An Experimental Study on Social Behaviour of a Bot in Swarm: Investigating Competitive and Collaborative Behaviour of Bots Using Nature Inspired Boids Flocking Algorithm	Nirat and Sandeep Paul	International Journal of Advance Research in Science and Engineering, Vol 4, No(1) 207-217, August 2015	2015	
<b>101</b>	Measurement of dielectric properties of biological materials using co-axial fork type probe	Urvashi, Zeeshan, K.S. Daya, Priya Doneria	IEEE Sensors	2019	3.076

<b>102</b>	Impedance and Magnetohydrodynamic Measurements for Label Free Detection and Differentiation of E. coli and S. aureus using Magnetic Nanoparticles.	Zeeshan ; K. S. Daya ; Prem Saran Tirumalai ; Evangelyn Alocilja	IEEE Transactions on NanoBioscience	2018	1.927
<b>103</b>	Detection of micron size phantom of biological cell using concentric square ring metamaterial at microwave frequency	Komal Saxena and K. S. Daya	Integrated Ferroelectrics, Taylor & Francis	2017	0.375
<b>104</b>	Understanding the decay of proteins: A method to study time dependent response of pM concentration of insulin at microwave frequencies	Ritika Verma, K. S. Daya	Elsevier, Methods X 4 (2017) 35–41	2017	3.782
<b>105</b>	Rapid Detection of pM Concentration of Insulin using Microwave Whispering Gallery Mode.	Ritika Verma, and K. S. Daya	IEEE Sensors Journal (2017) Issue Date: MAY 1, 2017, Volume: 17 Issue: 9,1-8	2017	3.076
<b>106</b>	Sol–gel auto combustion processed soft Z-type hexa nanoferrites for	SuchetaSharma, K.S.Daya, SunilSharma, Khalid M.Batoo, M.Singh	Ceramics International Volume 41, Issue 5, Part B, June 2015, Pages 7109-7114	2015	3.45

	microwave antenna miniaturization				
<b>107</b>	Remarkable magnetization with ultra-low loss BaGdxFe12-xO19 nanohexaferrites for applications up to C-band	Virender PratapSingh, GaganKumar, R.K.Kotnala, JyotiShah, SuchetaSharma, K.S.Daya, Khalid M.Batoo, M.Singh	Journal of Magnetism and Magnetic Materials Volume 378, 15 March 2015, Pages 478-484	2015	3.046
<b>108</b>	Study of Band Gap Characteristics and Sensitivity to Mechanical Perturbation of Honeycomb EBG Structures with Hexagonal Basis	M Kapoor, KS Daya	International Journal of Microwave & Optical Technology 9 (Issue 2), p177	2014	0.933
<b>109</b>	Ultra low loss soft magnetic nanoparticles for applications up to S-band	Sucheta Sharma, K. S. Daya, S. Sharma, and M. Singh	Appl. Phys. Lett. 103, 112402 (2013)	2013	3.521
<b>110</b>	Novel solutions for capacitated vehical routing problem using an ant colony optimization algorithm	Ashima Gupta, Sanjay Saini	JETIR	2018	5.87

<b>111</b>	On Solutions to Capacitated Vehicle Routing Problem Using an Enhanced Ant Colony Optimization Technique	Ashima Gupta, Sanjay Saini	Networking Communication and Data Knowledge Engineering. Lecture Notes on Data Engineering and Communications Technologies, Springer, Singapore	2018	1.854
<b>112</b>	On Solutions to Vehicle Routing Problems Using Swarm Optimization Techniques: A Review	Ashima Gupta, Sanjay Saini	Advances in Computer and Computational Sciences. Advances in Intelligent Systems and Computing, Springer, Singapore	2017	
<b>113</b>	Implementation of IWD to solve Graph based Travelling Salesman Problem	Roli Bansal, Hina Agrawal, Hifza Afaq and Sanjay Saini	SpringerLink	2013	
<b>114</b>	Optimization of Complex Mathematical Function using a Novel implementation of Intelligent Water Drops	Maneet Singh, Sanjay Saini	SpringerLink	2013	
<b>115</b>	Carbon-Ion therapy in the Giant4 Binary Light Ion Cascade Model	S N L Sirisha, Sonali Bhatnagar	Proc. India Natn. Sci. Acad	2019	



<b>116</b>	Galactic Cosmic Energy Spectrum Based Simulation of Total Equivalent Dose in Human Phantom	Kajal Garg, Sonali Bhatnagar	Springer International Publishing AG, part of Springer Nature 2018	2018	
<b>117</b>	Muon Telescope – An Educational Experiment for Post Graduate Students	S.N.L. Sirisha, Kajal Garg, Sonali Bhatnagar	Physics Education Journal (2.32)	2016	
<b>118</b>	Study of the correlation of muon paddle efficiency with temperature, pressure, Decohorence curve and effect of multiple scattering Physics in geant4 based detector simulation	S.N.L. Sirisha, Kajal Garg, Sonali Bhatnagar	International Journal of Current Research(0.67)	2016	7.749
<b>119</b>	Determination of Equivalent Dose of Specific Organs in computational age dependent phantoms using proton therapy	S.N.L. Sirisha, Sonali Bhatnagar	International Journal of Bioscience and Biotechnology(4.78)	2015	0.5833
<b>120</b>	GEANT4 & GAMOS—A particle implementation	Sonali Bhatnagar	IEEE Explore (5.46)	2014	9.107

	of high energy simulation toolkit to oncology therapy				
<b>121</b>	Adaptive fusion of biometric and biographic information for identity de-duplication	Prem Sewak Sudhish, Anil K. Jain, Kai Cao	Pattern Recognition Letters	2016	5.898
<b>122</b>	Multibiometric Security Systems: A Comparative Review of Information Fusion Approaches for Biometrics	Prem Sewak Sudhish	DEI Journal of Science & Engineering Research (DEIJSER)	2015	
<b>123</b>	Quantum Inspired Social Evolution (QSE) algorithm for 0-1 knapsack problem	<a href="#">R.S.Pavithr and Gursaran</a>	Swarm and Evolutionary Computation	2016	6.33
<b>124</b>	Degree Certificate Authentication using QR Code and Smartphone	Ankit Singhal , R. S. Pavithr	International Journal of computer Applications	2015	3.12
<b>125</b>	From n-qubit multi-particle quantum teleportation modelling to n-qudit contextuality based quantum teleportation and beyond	Dayal Pyari Srivastava, Vishal Sahni and Prem Saran Satsangi	International Journal of General Systems	2017	2.259

<b>126</b>	Modelling microtubules in the brain as n-qudit quantum Hopfield network and beyond	Dayal Pyari Srivastava, Vishal Sahni and Prem Saran Satsangi	International Journal of General Systems	2015	2.259
<b>127</b>	Graph-theoretic quantum system modelling for neuronal microtubules as hierarchical clustered quantum Hopfield networks	Dayal Pyari Srivastava, Vishal Sahni and Prem Saran Satsangi	International Journal of General Systems	2014	2.259
<b>128</b>	Normal form for single qutrit Clifford+T operators and synthesis of single qutrit gates	Shiroman Prakash, Akalank Jain, Bhakti Kapur, Shubangi Seth	Physical Review A	2018 (accepted)	2.907
<b>129</b>	A complex fermionic tensor model in d dimensions	Shiroman Prakash; Ritam Sinha	Journal of High Energy Physics	2018	5.833
<b>130</b>	On the higher spin spectrum of Chern-Simons theory coupled to fermions in the large flavour limit	Gurucharan, V.; Prakash, Shiroman	Journal of High Energy Physics	2018	5.833
<b>131</b>	Constraints on parity violating conformal field theories in d=3	Chowdhury, Subham Dutta; David, Justin R.; Prakash, Shiroman	Journal of High Energy Physics	2017	5.833

<b>132</b>	Anomalous dimensions in non-supersymmetric bifundamental Chern-Simons theories (ertm)	Gurucharan, V.; Prakash, Shiroman	Journal of High Energy Physics	2017	5.833
<b>133</b>	Spectral sum rules for conformal field theories in arbitrary dimensions	Chowdhury, Subham Dutta; David, Justin R.; Prakash, Shiroman	Journal of High Energy Physics	2017	5.833
<b>134</b>	On the higher-spin spectrum in large N Chern-Simons vector models	Giombi, S.; Gurucharan, V. ; Kirilin, V.; Prakash, S.; Skvortsov, E.	Journal of High Energy Physics	2017	5.833
<b>135</b>	A test of bosonization at the level of four-point functions in Chern-Simons vector models	Bedhotiya, Akshay; Prakash, Shiroman	Journal of High Energy Physics	2015	5.833
<b>136</b>	Anomalous dimensions in non-supersymmetric bifundamental Chern-Simons theories	Gurucharan, V.; Prakash, Shiroman	Journal of High Energy Physics	2014	5.833
<b>137</b>	A note on CFT correlators in three dimensions	Giombi, Simone; Prakash, Shiroman; Yin, Xi	Journal of High Energy Physics	2013	5.833

<b>138</b>	Morphological influence of electrode/electrolyte interface towards augmenting the efficiency of photoelectrochemical water splitting-A case study on ZnO	Vibha R. Satsangi,Kumari Asha,Anamika Banerjee,Sakshi Saxena,Saif A. Khan,Indra Sulaniya,Rohit Shrivastav,Rama Kant,Sahab Dass	Journal Of Power Sources	7.46	2019
<b>139</b>	Photoelectrochemical water splitting with 600 keV N <sup>2+</sup> ion irradiated BiVO <sub>4</sub> and BiVO <sub>4</sub> /Au photoanodes	Anupam Srivastav,Anuradha Verma,Saif A.Khan,York R.Smith,Vibha Rani Satsangi,Rohit Shrivastav,Sahab Dass	International Journal of Hydrogen Energy	4.08	2019
<b>140</b>	Integrating PbS Quantum Dots with Hematite for Efficient Photoelectrochemical Hydrogen Production	Ashi Ikram, Sahab Dass,Rohit Shrivastav,Vibha R. Satsangi	Physica Status Solidi application and material sci.	1.77	2019
<b>141</b>	Zn <sub>1-x</sub> FexO <sub>y</sub> nanocomposites for renewable hydrogen produced efficiently via photoelectrochemical vis-a-vis photocatalytic splitting of water	Nirupama Singh,Mrinal R. Pai,Gurpreet Kaur,Divya,V.R. Satsangi,Rohit Shrivastav,Sahab Dass	SN Applied Science ,Springer	Book Chapter	2019

<b>142</b>	Experimental and first-principles studies of BiVO <sub>4</sub> /BiV <sub>1-x</sub> Mn <sub>x</sub> O <sub>4-y</sub> n-n <sup>+</sup> homojunction for efficient charge carrier separation in sunlight induced water splitting	Anupam Srivastav,Pawan Kumar,Anuradha Verma,York R.Smith,Vibha Rani Satsangi,Rohit Shrivastav,Umesh V.Waghmare,Sahab Dass	International Journal of Hydrogen Energy	4.08	2018
<b>143</b>	MWCNTs and Cu <sub>2</sub> O Sensitized Ti-Fe <sub>2</sub> O <sub>3</sub> Photoanode for Improved Water Splitting Performance	Anuradha Verma, Anupam Srivastav, Shailja Sharma, Pavan Badami, Vibha Rani Satsangi, Rohit Shrivastav, Arunachala M. Kannan, Devesh Kumar Avasthi, Sahab Dass	International Journal of Hydrogen Energy	4.08	2018
<b>144</b>	Silver-Doped Rust(alpha-Haematite) Layered Over Zinc Oxide:Photoanode for photoelectrochemical water splitting	Gurpreet Kaur,Divya,V.R. Satsangi,Rohit Shrivastav,Sahab Dass	Intl. Jnl of Advanced Engg Sci. and Tech. Research	0.48	2018
<b>145</b>	Development of a decision support tool for analysing the avian conservation measures in semi-arid region	Mugdha Singh,Sunil Pratap Singh,A.K. Sinha,Preetvanti Singh	International Journal of Decision Support Systems		2018

<b>146</b>	A hybrid decision support model using axiomatic fuzzy set theory in AHP and TOPSIS for multicriteria route selection	Sunil Pratap Singh,Preetvanti Singh	Complex & Intelligent Systems		2018
<b>147</b>	Analyzing the performance of the Indian Cricket Team using Weighted Association Rule Mining	Deepak Saraswat,Vijai Dev, Preetvanti Singh	International Conference on Computing, Power and Communication Technologies (GUCON)		2018
<b>148</b>	A Hybrid Method to Analyze and Manage Tourist Arrivals	Vijai Dev and Preetvanti Singh	Journal of Tourism & Management Research, 4(2), 429-444. ISSN: 2149-6528		2019
<b>149</b>	Efficient Hydrogen Generation on CuO core/Ag-TiO <sub>2</sub> shell nano - hetero-structures by photocatalytic splitting of water	Shailja Sharma,Mrinal R. Pai,Gurpreet Kaur,Divya,V.R. Satsangi,Rohit Shrivastav,Sahab Dass	Renewable Energy	5.43	2017

<b>150</b>	Electronic band-offsets across Cu <sub>2</sub> O/BaZrO <sub>3</sub> heterojunction and its stable photo-electro-chemical response	Dipika Sharma,Rishi brind Kumar Upadhyay,Biswarup Satpati,Vibha R.Satsangi,Rohit Shrivastav,Umesh V.Waghmare,Sahab Dass	Renewable Energy	5.43	2017
<b>151</b>	Enhancing efficiency of Fe <sub>2</sub> O <sub>3</sub> for robust and proficient solar water splitting using a highly dispersed bioinspired catalyst	Anamika Banerjee,Biswajit Mondal,Anuradha Verma,Vibha R.Satsangi,Rohit Shrivastav,Abhishek Dey,Sahab Dass	Journal of Catalysis	7.72	2017
<b>152</b>	CNT based photoelectrodes for PEC generation of hydrogen: A review	Snigdha Rai,Ashi Ikram,Sonal Sahai,Sahab Dass,Rohit Shrivasta,Vibha R.Satsangi	International Journal of Hydrogen Energy	3.4	2017
<b>153</b>	Turbulent amplification of magnetic field in laser plasma interaction and astrophysical plasmas	Prem Pyari Tiwary ,Swati Sharma,Ram Kishor Singh,Anju Kumari,V. R. Satsangi,R. P. Sharma	Physics of plasmas	2.12	2017



<b>154</b>	Enhanced photoelectrochemical response of plasmonic Au embedded BiVO <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> heterojunction	Anuradha Verma, Anupam Srivastav, Saif A. Khan, Vibha Rani Satsangi, Rohit Shrivastav, Devesh Kumar Avasthi, Sahab Dass	Physical chemistry Chemical Physics	3.9	2017
<b>155</b>	Quantum dots sensitization for photoelectrochemical generation of hydrogen: A review	Sonal Sahai, Ashi Ikram, Snigdha Rai, Rohit Shrivastav, Sahab Dass, Vibha R. Satsangi	Renewable and Sustainable Energy Reviews	10.5	2016