

Name of Faculty: Dr. Sayyad Shafiyoddin Badruddin

Department: Physics

## **PUBLICATIONS**

### **I. Research Papers Published in the Peer-reviewed International / National Journals notified on UGC website**

<b>Sr. No.</b>	<b>Title of Paper</b>	<b>Name of the Author/s</b>	<b>Name of Journal</b>	<b>Year of Publication</b>	<b>ISBN/ ISSN Number</b>	<b>Link of the Recognition in UGC enlistment of the Journal</b>	<b>Impact Factor</b>
1	Modeling the Chandrayaan-1 Hyperspectral (HySI) Data for Mineral Mixing Analysis	Mohammed Zeeshan R., Sayyad Shafiyoddin B.	Advances in Intelligent Systems and Computing, Springer	2020	ISBN (P) 978-981-15-2474-5 ISBN (E)978-981-15-2475-2	<a href="https://doi.org/10.1007/978-981-15-2475-2_44">https://doi.org/10.1007/978-981-15-2475-2_44</a>	0.57
2	Implementation of the Bidirectional Reflectance Function for Modeling the Spectra Derived from Hyperspectral Images	Mohammed Zeeshan R., Sayyad Shafiyoddin B.	Advances in Intelligent Systems and Computing, Springer	2020	ISBN (P) 978-981-15-2474-5 ISBN (E)978-981-15-2475-2	<a href="https://doi.org/10.1007/978-981-15-2475-2_45">https://doi.org/10.1007/978-981-15-2475-2_45</a>	0.57
3	Mineralogical Mapping Using Chandrayaan-1 Hyperspectral (HySI) Data from the South Pole Region	S. B. Sayyad, R. Mohammed Zeeshan	NASA-Lunar Surface Science Workshop (2020), Abstract #5039	2020		<a href="https://www.hou.usra.edu/meetings/lunarsurface2020/pdf/5039.pdf">https://www.hou.usra.edu/meetings/lunarsurface2020/pdf/5039.pdf</a>	1

4	Study Of Effect On Bruggeman Factors As A Dielectric Parameters Of Ethanol With Atarax, Diazepam And Lorazepam Using Time Domain Reflectometry	Dongare A. K., Kumbharkahane A. C., Sayyad S. B.	Our Heritage	2020	0474-9030	<a href="https://archives.ourheritagejournal.com/index.php/oh/article/view/2893">https://archives.ourheritagejournal.com/index.php/oh/article/view/2893</a>	1
5	Estimation of Vegetation Area for Microwave L Band SIR-C SAR Dataset Using Classification Techniques	S. B. Sayyad, M. A. Shaikh, A. P. Pandit, S. M. Anpat	Our Heritage	2020	0474-9030	<a href="https://archives.ourheritagejournal.com/index.php/oh/article/view/7271">https://archives.ourheritagejournal.com/index.php/oh/article/view/7271</a>	1
6	Advances in Science and remote sensing	Pradnya R Maheshmalkar, Shivanand V Kshirsagar, Shafiyoddin B Sayyad, Rupesh R Kokate	Our Heritage	2020	0474-9030	<a href="https://archives.ourheritagejournal.com/index.php/oh/article/view/7296">https://archives.ourheritagejournal.com/index.php/oh/article/view/7296</a>	1
7	Dielectric study of ethyl acetate with 1-butanol using Time Domain Reflectometry	S.B.Kolhe , S.B.Sayyad , P.B.Undre , P.W.Khirade	Our Heritage	2020	0474-9030	<a href="https://archives.ourheritagejournal.com/index.php/oh/article/view/7306">https://archives.ourheritagejournal.com/index.php/oh/article/view/7306</a>	1
8	Study of Molecular Interaction in Binary Mixture of Lorazepam with Methanol Using Bruggeman Model	Dongare A. K, Tupe S. K, Sayyad S. B	Our Heritage	2020	0474-9030	<a href="https://archives.ourheritagejournal.com/index.php/oh/article/view/7901">https://archives.ourheritagejournal.com/index.php/oh/article/view/7901</a>	1

9	Study of RC Coupled Amplifier using PSPICE	Sanjay K. Tupe, A. K. Dongare, S. B. Sayed	Our Heritage	2020	0474-9030	<a href="https://archives.ourheritagejournal.com/index.php/oh/article/view/7310">https://archives.ourheritagejournal.com/index.php/oh/article/view/7310</a>	1
10	A Low Cost an Arduino based Embedded System for Differential Thermal Analysis of a Solid Chemical Compound	F. H. Kurne Inamdar, S.B. Shelke, S.B.Sayyad, R.H.Kadam	International Journal of Emerging Technologies and Innovative Research	2019	2349-5162	<a href="http://www.jetir.org/papers/JETIR1901354.pdf">http://www.jetir.org/papers/JETIR1901354.pdf</a>	1.87
11	Design and Development of Internet of Thing (IoT) Based Soil Parameters Monitoring System in Agricultural Domain	M. A. Shaikh, G. V. Avhale, D. K. Sonavane, S. B. Jadhav, P. M. Gaikwad, S. B. Sayyad	International Journal of Research and Analytical Reviews	2019	2348-1269	<a href="http://www.ijrar.org/papers/IJRA R1900037.pdf">http://www.ijrar.org/papers/IJRA R1900037.pdf</a>	3.215
12	Mineral Mapping of Mare Nectaris From Near Side of The Moon Using Chandrayaan-1 Hyperspectral Imager (HySi) data	Sayyad S. B., Mohammed Zeeshan R., Ajit Kumar. , Deshmukh R. R.	International Journal of Research and Analytical Reviews	2019	2348-1269	<a href="http://www.ijrar.org/papers/IJRA R1900046.pdf">http://www.ijrar.org/papers/IJRA R1900046.pdf</a>	3.215
13	Temperature Dependent Dielectric properties of CuO:ZnO Nanocomposite PN-Junction in 2:1 Weight Ratio	G. G. Patil, Sayyad S. B., Khirade P. W., M. A. Shaikh	International Journal of Research and Analytical Reviews	2019	2348-1269	<a href="http://www.ijrar.org/papers/IJRA R1900057.pdf">http://www.ijrar.org/papers/IJRA R1900057.pdf</a>	3.215

14	Use of Wireless Embedded System Node Communication for Observing the Greenhouse Microclimatic Parameters	Kolapkar M.M., Khirade P.W., Syed S.B.	International Journal of Research and Analytical Reviews	2019	2348-1269	<a href="http://www.ijrar.org/papers/IJRA_R190O052.pdf">http://www.ijrar.org/papers/IJRA_R190O052.pdf</a>	3.215
15	Mineral Mapping of the Lunar Surface Using Chandrayaan-1 Hyperspectral Imager (HySi) and Moon Mineralogy Mapper (M3) Hyperspectral Data	Mohammed Zeeshan R., Ajit Kumar, Sayyad S. B., Deshmukh R. R.	International Journal of Research and Analytical Reviews	2019	2348-1269	<a href="http://www.ijrar.org/papers/IJRA_R19J1502.pdf">http://www.ijrar.org/papers/IJRA_R19J1502.pdf</a>	3.215
16	Differential Thermal Analysis of an Organic Compound using Atmega328p Microcontroller Based Embedded System	F. H. Kurne Inamdar, S.B. Shelke, S.B. Sayyad, R. H. Kadam	International Journal of Research and Analytical Reviews	2019	2348-1269	<a href="http://www.ijrar.org/papers/IJRA_R190O060.pdf">http://www.ijrar.org/papers/IJRA_R190O060.pdf</a>	3.215
17	Dielectric Properties of Nanoscale Composite Junction	G. G. Patil, Khirade P. W. and Sayyad S. B.	International Journal of Advance and Innovative Research	2019	2394-7780	<a href="http://iaraedu.com/about-journal/ijair-volume-6-issue-1-xix-january-march-2019-part-1.php">http://iaraedu.com/about-journal/ijair-volume-6-issue-1-xix-january-march-2019-part-1.php</a>	1.36
18	Remote Sensing Data For Soil Study	PradnyaR.Maheshmalkar, ShivanandV.Kshirsagar, Sayyad Shafiyodin	RESEARCH JOURNEY International Multidisciplinary E-Research Journal	2019	2348-7143	<a href="http://www.researchjourney.net/SpecialIssues.php">http://www.researchjourney.net/SpecialIssues.php</a>	0.17

19	Surface Water Level Estimation from Microwave Sir-C Sar Image: A Hydrological Study Using Classification Techniques	Shaikh M. A., Sonawane D K, Karle S. C. Momin R. K, Sayyad S. B	International Journal of Advance and Innovative Research	2019	2394-7780	<a href="http://iaraedu.com/about-journal/ijair-volume-6-issue-1-xix-january-march-2019-part-1.php">http://iaraedu.com/about-journal/ijair-volume-6-issue-1-xix-january-march-2019-part-1.php</a>	1.36
20	Dielectric Relaxation Study of Atarax and Propanol Binary Mixture Using Time Domain Reflectometry Technique	Dongare A. K., Tupe S. K., Sayyad S. B., Kumbharkhane A. C., Khirade P. W.	RESEARCH JOURNEY International Multidisciplinary E-Research Journal	2019	2348-7143	<a href="http://www.researchjourney.net/SpecialIssues.php">http://www.researchjourney.net/SpecialIssues.php</a>	0.17
21	Temperature Dependent Dielectric Relaxation Study Of Lorazepam and Ethanol Binary Mixture at Microwave Frequency Using Time Domain Reflectometry Technique	A. K. Dongare, P. W. Khirade, S. B. Sayyad	Pune Research Times	2019	2456-0960	<a href="http://puneresearch.com/media/data/issues/5cbbfae0f26cf.pdf">http://puneresearch.com/media/data/issues/5cbbfae0f26cf.pdf</a>	3.18
22	Comparative Study of Dielectric Properties of Cuo/Zno Nanocomposite in 1:1, 1:2 and 2:1 Weight Ratio	Sayyad S.B., G. G. Patil, Khirade P. W.	Pune Research Times	2019	2456-0960	<a href="http://puneresearch.com/media/data/issues/5cbc0081da7d8.pdf">http://puneresearch.com/media/data/issues/5cbc0081da7d8.pdf</a>	3.18
23	Vegetation Area Estimation Using Microwave C-Band SIR-C SAR Image	Sayyad S.B., Shaikh M.A., Ajit Kumar, Khirade P. W.	Pune Research Times	2019	2456-0960	<a href="http://puneresearch.com/media/data/issues/5cbc00f4170bc.pdf">http://puneresearch.com/media/data/issues/5cbc00f4170bc.pdf</a>	3.18

24	Modeling and Simulation of the Chandrayaan-I Hysi Data for Mineral Mixing Analysis.	S. B. Sayyad, Mohammed Zeeshan R.	NASA-4th Planetary Data Workshop (2019), Abstract #7074	2019		<a href="https://www.hou.usra.edu/meetings/planetdata2019/pdf/7074.pdf">https://www.hou.usra.edu/meetings/planetdata2019/pdf/7074.pdf</a>	
25	Accuracy Assessment for Microwave TerraSAR-X SAR Dataset Using Supervised Classification	S. B. Sayyad, M. A. Shaikh, S. B. Kolhe and P. W. Khirade	URSI AP-RASC 2019	2019		<a href="http://www.ursi.org/proceedings/procAP19/papers2019/DrSayyadSRegularFullPaperSubmissionURSI2019.pdf">http://www.ursi.org/proceedings/procAP19/papers2019/DrSayyadSRegularFullPaperSubmissionURSI2019.pdf</a>	1
26	The Influence of Temperature and Frequency on Dielectric Properties of p-CuO/n-ZnO Nano Composite	G.G. Patil, P.W. Khirade, S.B. Sayyad	Eurasian Journal of Analytical Chemistry	2019	1306-3057	<a href="http://www.eurasianjournals.com/pdf-105645-36344?filename=The%20Influence%20of.pdf">http://www.eurasianjournals.com/pdf-105645-36344?filename=The%20Influence%20of.pdf</a>	0.186
27	Comparative Study of Dielectric Parameters of Ethanol, Methanol and Propanol with Atarax Using Time Domain Reflectometry	A. K. Dongare1 , S. B. Sayyad2 , A. C. Kumbharkanae3 , P. W. Khirade4.	Review of Research	2019	2249-894X	<a href="http://oldror.lbp.world/UploadedData/10179.pdf">http://oldror.lbp.world/UploadedData/10179.pdf</a>	1.7
28	Snow Cover Estimation of Microwave SAR-C Dataset and Its Implications on Statistical Parameters	Shaikh M. A., Sayyad S. B., Anpat S. M., Sonwane D. K., Khirade P. W	ISGNS	2018		-	1

29	Mineral Mapping Using Chandrayaan-1 Hyperspectral (HySI) Data from Mare Vaporum	Sayyad, S. B., Mohammed, Z. R., and Deshmukh, R. R	Int. Arch. Photogramm. Remote Sens.	2018	ISSN: 0924-2716	<a href="https://doi.org/10.5194/isprs-archives-XLII-5-339-2018">https://doi.org/10.5194/isprs-archives-XLII-5-339-2018</a>	1
30	Geophysical Parameter Retrieval for Microwave C Band Synthetic Aperature Radar (SAR) Dataset using Integral Equation Model	S. B. Sayyad, M. A. Shaikh, S. B. Kolhe, P. W. Khirade	Int. Arch. Photogramm. Remote Sens.	2018	ISSN: 0924-2716	<a href="https://doi.org/10.5194/isprs-archives-XLII-5-689-2018">https://doi.org/10.5194/isprs-archives-XLII-5-689-2018</a>	1
31	Backscattering Signal ( $s^0$ ) Retrieval from Microwave Synthetic Aperature Radar (SAR) Dataset Using Integral Equation Model	Sayyad S. B., Karale S.C., Shaikh M. A., Kolhe S. B., Khirade P. W.	ACRS	2018		<a href="https://www.researchgate.net/publication/329049584_GEOPHYSICAL_PARAMETER_RETRIEVAL_FOR_MICROWAVE_C_BAND_SYNTHETIC_APERTURE_RADAR_SAR_DATASET_USING_INTEGRAL_EQUATION_MODEL">https://www.researchgate.net/publication/329049584_GEOPHYSICAL_PARAMETER_RETRIEVAL_FOR_MICROWAVE_C_BAND_SYNTHETIC_APERTURE_RADAR_SAR_DATASET_USING_INTEGRAL_EQUATION_MODEL</a>	1
32	Mineral Mapping of Mare Cresium Using Chandrayaan-1 Hyperspectral (HySI) Data	Sayyad S. B., Mohammed Z. R., Deshmukh R. R.	Journal of Applied Science and Computations	2018	ISSN: 0076-5131	<a href="http://www.jasc.com/gallery/13-july-791.pdf">http://www.jasc.com/gallery/13-july-791.pdf</a> (UGC No. 41238)	1

33	Microwave Spectroscopy modelling for geophysical parameter retrieval using synthetic aperture radar (SAR) dataset	M. A. Shaikh, S. M. Anpat, A. K. Dongare, P. W. Khirade and S. B. Sayyad,	Indian Journal of Pure and Applied Physics	2018	ISSN: 00195596(P) 09751041(E)	<a href="http://nopr.niscair.res.in/handle/123456789/44200">http://nopr.niscair.res.in/handle/123456789/44200</a>	1
34	Microwave dielectric characterization of CuO/ ZnO nanocomposite junction at different temperature	G. G. Patil and S. B. Sayyad,	International Journal of chemical and Physical Sciences	2018	ISSN:2391-6602	<a href="http://ijcps.org/admin/php/uploads/788_pdf.pdf">http://ijcps.org/admin/php/uploads/788_pdf.pdf</a>	1
35	Study of dielectric behavior of binary liquid by frequency domain technique	S. M. Anpat, P. W. Khirade and S. B. Sayyad,	International Journal of Chemical and Physical Sciences	2018	ISSN:2391-6602	<a href="http://ijcps.org/admin/php/uploads/794_pdf.pdf">http://ijcps.org/admin/php/uploads/794_pdf.pdf</a>	1
36	Comparative Study of Gaussian and Box-car Filter of L-Band SIR-C Data Image using Pol-SAR for Speckle Noise Reduction	P. R. Jagtap, P. W. Khirade and S. B. Sayyad,	International Journal of Universal Print	2018	ISSN: 2454-7263	<a href="http://www.universalprint.org/wp-content/uploads/2018/03/ACTRA-2018-023.pdf">http://www.universalprint.org/wp-content/uploads/2018/03/ACTRA-2018-023.pdf</a>	1
37	Determination of Dielectric Constant of Psycho Pharmaceutical Drugs	A. K. Dongare, S. M. Anpat, S. B. Sayyad and K. S. Hingmire,	Review of Research	2018	ISSN: 2249-894X	<a href="http://www.oldror.lbp.world/ArticleDetails.aspx?id=4484">http://www.oldror.lbp.world/ArticleDetails.aspx?id=4484</a>	1
38	PIC Microcontroller Based Portable Spectroscopy Sensor for Liquids: A Noval Approach	S. M. Anpat, S. B. Sayyad, P. W. Khirade,	IAETSD Journal for Advanced Research in	2018	ISSN: 2394-8442	<a href="http://iaetsdjaras.org/gallery/61-march-583.pdf">http://iaetsdjaras.org/gallery/61-march-583.pdf</a>	1



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39	Synthesis of CuO and ZnO Nanocomposite and Study its Dielectric Characterization at Microwave Frequency	G. G. Patil, S. S. Demse, Sayyad S. B., Khirade P. W.,	Researchers World-Journal of Arts, Science & Commerce,	2018	ISSN: 2231-4172		1
40	Comparative Study Of Gaussian And Box-Car Filter Of Terrasar-X Data Image Using Pol-Sar For Speckle Noise Reduction	Jagtap Pornima Ramesh, Sayyad Shafiyoddin Badruddin and Khirade Prakash Waghji	International Journal of Recent Scientific Research	2018	ISSN: 0976-3031	<a href="http://dx.doi.org/10.24327/ijrsr.2018.0905.2162">http://dx.doi.org/10.24327/ijrsr.2018.0905.2162</a>	3.65
41	Study the Synthesis and Dielectric Properties Loss Tangent Delta and AC Conductivity of CuO/ZnO Nanocomposite in 1:2 Weight Ratio at Microwave Frequency	G.G. Patil, S. B. Sayyad	Jour of Adv Research in Dynamical & Control System	2018	ISSN: 1943023X	<a href="https://www.jardcs.org/backissues/abstract.php?archiveid=5958">https://www.jardcs.org/backissues/abstract.php?archiveid=5958</a> (UGC No. 26301)	0.22
42	Temperature Characterization of Dielectric Permittivity and AC Conductivity of CuO/ZnO Nanocomposite Junction	G.G. Patil, S. B. Sayyad	Jour of Adv Research in Dynamical & Control System	2018	ISSN: 1943023X	<a href="https://www.jardcs.org/backissues/abstract.php?archiveid=5957">https://www.jardcs.org/backissues/abstract.php?archiveid=5957</a> (UGC No. 26301)	0.22
43	Dielectric Relaxation and Related Study of Diazepam and Ethanol Binary Mixture at Microwave Frequency Using	Dongare A. K., Sayyad S. B., Kumbharkhane A. C., Khirade P.	International Research Journal of Multidisciplinar	2018	ISSN (E): 2454-8499		1.35

	Time Domain Reflectometry Technique	W.	y Studies				
44	A Study of Compositional Mapping of Lunar Surface using Chandrayaan-1 HYSI Sensor Data	Sayyad Shafiyoddin B., Mohammed Zeeshan R., Deshmukh R. R., Current	Global Reviewer Special Issue ICAS-2017,	2017	ISSN-2319-8648	<a href="https://www.researchgate.net/publication/335340346_Mineral_Mapping_of_the_Lunar_Surface_Using_Chandrayaan-1_Hyperspectral_Imager_HySi_and_Moon_Mineralogy_Mapper_M3_Hyperspectral_Data">https://www.researchgate.net/publication/335340346_Mineral_Mapping_of_the_Lunar_Surface_Using_Chandrayaan-1_Hyperspectral_Imager_HySi_and_Moon_Mineralogy_Mapper_M3_Hyperspectral_Data</a>	1
45	Design and Analysis of Coplaner Capacitive Fed Slotted Patch Antenna for S Band Applications	AjitKumar and Sayyad Shafiyoddin	Global Reviewer Special Issue ICAS-2017,	2017	ISSN-2319-8648	<a href="https://www.researchgate.net/publication/322306691_Design_and_Analysis_of_Suspended_Capacitive_Fed_Slotted_Patch_Antenna_for_S-Band_Applications64310">https://www.researchgate.net/publication/322306691_Design_and_Analysis_of_Suspended_Capacitive_Fed_Slotted_Patch_Antenna_for_S-Band_Applications64310</a>	1

46	CPW-Fed Circularly Polarized Slot Antenna	Ajit Kumar and Dr. S. B. Sayyad.,	International Journal of Advanced Research in Computer Science and Software Engineering,	2017	ISSN: 2277-128X	<a href="https://www.researchgate.net/publication/323579639_CPW-Fed_Circularly_Polarized_Slot_Antenna">https://www.researchgate.net/publication/323579639_CPW-Fed_Circularly_Polarized_Slot_Antenna</a>	1
47	Study the Synthesis of CuO/ZnO nanocomposite by Mortar and Pestle and its Characterization	G. G. Patl and Sayyad S. B.,	Journal of Emerging Technologies and Innovative Research (JETIR),	2017	ISSN: 2349-5162	<a href="http://www.jetir.org/papers/JETIR1711092.pdf">http://www.jetir.org/papers/JETIR1711092.pdf</a>	1
48	Support Vector Machine (SVM) Based Supervised Classification Analysis for Microwave SIR-C POL SAR Image	Shaikh Mudassar Akhtar, Pandit Anand Purushottam, Khirade Prakash Waghaji, Sayyad Shafiyoddin Badruddin,	International Journal of Engineering and Advanced Technology (IJEAT)	2017	ISSN: 2249 – 8958		1
49	Barriers and Challenges in Implementation of Learning Management System in Educational Institutes; an Indian perspective	Imran Khan Pathan and Syed S. B.,	International Journal KESONA Report,	2016	ISBN-2456-2025		1

50	Classification of Polari Metric SAR (PoSAR) Image Analysis using Decomposition Techniques	M. A. Shaikh, P. W. Khirade and S. B. Sayyad	International Journal of Computer Applications	2016	), ISSN: 0975 – 8887	<a href="https://www.ijcaonline.org/proceedings/ncdisp2016/number1/25849-1630">https://www.ijcaonline.org/proceedings/ncdisp2016/number1/25849-1630</a>	0.75
51	Unsupervised and Supervised Classification of Water Bodies: An Analysis from Microwave C-Band SIR-C SAR Image	S. B. Sayyad, M. A. Shaikh, L. B. Jadhavar,	International Journal of Advanced Research in Basic and Applied Sciences.	2017			1
52	Design and Development of Embedded System for Measurement of Humidity, Soil Moisture and Temperature in Polyhouse using 89E516RD Microcontroller	Kolapkar M. M., Khirade P. W. and Sayyad S. B.	International Journal of Advanced Agricultural Sciences and Technology	2016	ISSN 2320 – 026X	<a href="http://scientific.cloud-journals.com/index.php/IJAAS/article/view/Sci-483/pdf">http://scientific.cloud-journals.com/index.php/IJAAS/article/view/Sci-483/pdf</a>	1
53	SAR Image Analysis For Microwave C-Band Fine Quad Polarised Radarsat-2 Using Decomposition And Speckle Filter Technique, pp 1-6,	S. B. Sayyad, M. A. Shaikh, V. B. Gadkar,	International Journal of Innovations in Engineering Research and Technology	2015	ISSN: 2394-3696		2.776
54	Study of Kedarnath Crisis SAR Image using Point and Spatial Operation Technique for Image Enhancement	S.B.Sayyad, M.A.Shaikh, P.W.Khirade	Proc. Of NCDISP	2015	ISBN: 978-93-84916-62-6		1

55	Unsupervised and Supervised Classification of PolSAR Image Using Decomposition Techniques: An Analysis from L- Band SIR-C Data	Shaikh Mudassar Akhtar, Khirade Prakash Waghji and Sayyad Shafiyoddin Badruddin	Asian Journal of Multidisciplinary Studies	2015	ISSN: 2321-8819 (E)/ 2348-7186(P)	<a href="http://www.ajms.co.in/sites/ajms2015/index.php/ajms/article/view/1999">http://www.ajms.co.in/sites/ajms2015/index.php/ajms/article/view/1999</a>	1.498
56	A Novel Instrumentation System for Determination of Dielectric Constant of Some Polar Liquids Using IC P89c51RD2 Microcontroller	Sandip M Anpat, Prakash W Khirade, and Shafiyoddin B Sayyad	Asian Journal of Multidisciplinary Studies	2015	ISSN: 2321-8819 (E)/ 2348-7186(P)	<a href="http://www.ajms.co.in/sites/ajms2015/index.php/ajms/article/view/1998">http://www.ajms.co.in/sites/ajms2015/index.php/ajms/article/view/1998</a>	1.498
57	Realisation of Low Cost Dielectric Spectroscopy Sensor for Liquids Using P89c51RD2 Microcontroller	SM Anpat, MA Shaikh, PW Khirade, SB Sayyad	ICMARS	2015			1
58	SAR Image Analysis Using Image Enhancement and Segmentation Algorithm	MA Shaikh, SB Sayyad, PW Khirade, SM Anpat	ICMARS	2015			1
59	Design and Development of a Dielectric Spectroscopy Sensor for Liquids using Microcontroller Based System	S. M. Anpat, P. W. Khirade, SB Sayyad	Bionano Frontier	2015	ISSN: 2320-9593(E)/ 0974-0678(P)	<a href="https://www.researchgate.net/publication/341098709_PIC_Microcontroller_Based_Portable_Spectroscopy_Sensor_for_Liquids_A_Novel_Approach">https://www.researchgate.net/publication/341098709_PIC_Microcontroller_Based_Portable_Spectroscopy_Sensor_for_Liquids_A_Novel_Approach</a>	4.856

60	Speckle Filtering of Microwave C-Band Fine Quad Polarized RADARSAT-2 SAR Image Using Mean and Median Filter	S. B. Sayyad, M. A. Shaikh, P. W. Khirade	Bionano Frontier	2015	ISSN: 2320-9593(E)/ 0974-0678(P)		4.856
61	Speckle Noise Filtering of Microwave X- Band High Resolution Spotlight Mode TerraSAR-X SAR Image	M. A. Shaikh, P. W. Khirade, S. B. Sayyad	Bionano Frontier	2015	ISSN: 2320-9593(E)/ 0974-0678(P)		4.856
62	Color Image Enhancement Filtering Techniques For Agricultural Domain Using Matlab	M. A. Shaikh, S. B. Sayyad,	ISPRS VII Midterm symposium Hyderabad Dec 2014	2014		<a href="https://pdfs.semanticscholar.org/4114/5e5c9e6ea76ed282c9ebdabbab6ff09e57ba.pdf">https://pdfs.semanticscholar.org/4114/5e5c9e6ea76ed282c9ebdabbab6ff09e57ba.pdf</a>	1
63	A Critical Overview of Various Image Enhancement Techniques	M. A. Shaikh, S. B. Sayyad	JAAST:Material Science (Special Issue)	2014	ISSN 2393-8188 (P)/ 2393-8196 (E)	<a href="http://www.milliyaresearchportal.org/sites/default/files/70.Abst_78.pdf">http://www.milliyaresearchportal.org/sites/default/files/70.Abst_78.pdf</a>	1
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67	Liquid Dielectric Constant Measurement Techniques	Sandip Anpat, Sayyad Shafiyoddin	Proceeding of National Conference on Material Science-NCMS	2014			1
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85	Study of solute solvent interaction of nitrobenzene with DGME (diethylene glycol monomethyl ether) through dielectric relaxation study	PradnyaMahesh malkar, A. P. Maharolkar, S. B. Sayyad, S. P. Kamble, A. L. Tidar, Y. S. Sudke, S S Patil, P W Khirade and S C Mehrotra,	Material Science Research India	2009	ISSN: 0973-3469	<a href="http://dx.doi.org/10.13005/msri/060228">http://dx.doi.org/10.13005/msri/060228</a>	0.234
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89	Dielectric Study of Allyl Bromide and Formamide mixtures using picoseconds Time Domain Reflectometry	G. M. Dharne, S. P. Kamble, A L. Tidar, P. T. Sonwane, S. B. Sayyad, Y. S. Sudke, A. P. Mharolakar, S. S. Patil, P. W. Khirade and S. C. Mehrotra	Proc. International Conference on Recent Advances in Microwave Theory and Applications, 2008. MICROWAVE 2008.,	2008	ISBN, 978-1-4244-2690-4444/08,	<a href="https://doi.org/10.1109/AMTA.2008.4763122">https://doi.org/10.1109/AMTA.2008.4763122</a>	5.76
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91	Investigations of Intermolecular Interactions Between 2-Methoxyethanol and Nitrobenzene at Different Temperatures Through Dielectric Relaxation Study Using Time Domain Reflectometry Technique	Sayyad Shafiyoddin, Pravin Yannevar, S.S. Patil, P.W. Khirade and S.C. Mehrotra,	Frontiers of Microwaves and Optoelectronics, Proc. ICMO 2007, Anamaya Pub. New Delhi 2008,	2008	ISBN 978-81-89927-19-6		5.7

## II. Research Papers Published / Presented in International / National Conference Proceedings

Sr. No.	Title of the Paper	Title of Conference/ Seminar	ISBN/ISSN Number of the Proceeding	Organized By	Date
1	Estimation of Vegetation Area for Microwave L Band SIR-C SAR Dataset Using Classification Techniques	National Conference on Recent Advances in Science (NCRAS-2020)	ISSN: 0474-9030	Shivaji College, Kannad	13 <sup>th</sup> Feb 2020
2	Comparative Study of Bruggeman Factors as a Dielectric parameters of Ethanol, Methanol and Propanol with Diazepam using Time Domain Reflectometry	National Conference on Recent Advances in Physical Sciences (RAPS-2020)	---	Balbhim College, Beed	8 <sup>th</sup> Feb 2020
3	Greenhouse Microclimate Study for Humidity, Temperature and Soil Moisture Using Agricultural Wireless Sensor Network System	3 <sup>rd</sup> Biennial International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2020)	---	Dept of Compter Science & IT, Dr. BAMU	3 <sup>rd</sup> to 4 <sup>th</sup> Jan 2020
4	Confusion Matrix Based Accuracy Assessment for Microwave L Band SIR-C SAR Satellite Datset Using Supervised Classification	3 <sup>rd</sup> Biennial International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2020)	---	Dept of Compter Science & IT, Dr. BAMU	3 <sup>rd</sup> to 4 <sup>th</sup> Jan 2020

5	Implementation of the Bi-Directional Reflectance Function for Modeling the spectra derived from Hyperspectral Image	2 <sup>nd</sup> International Conference on Soft Computing and Signal Processing (ICSCSP)	ISBN (P): 978-981-15-2474-5 ISBN(E): 978-981-15-2475-2	Malla Reddy College of Engineering & Technology (ICSCSP-2019)	21 <sup>st</sup> to 22 <sup>nd</sup> June 2019
6	Dielectric Relaxation Study of Atarax and Propanol Binary Mixture Using Time Domain Reflectometry Technique	National Conference on Recent Trends in Material Science and Nanotechnology (RTMSN-2019)	ISSN: 2348-7143	ADABM College, Kada	17 <sup>th</sup> March 2019
7	Temperature Dependent Dielectric Relaxation Study of Lorazepam and Ethanol Binary Mixture at Microwave Frequency Using Time Domain Reflectometry Technique	National Conference on Nanomaterials and Their Applications Critical (NCNA-2018/19)	ISSN: 2456-0960	ACS College, KilleDharur	14 <sup>th</sup> Feb 2019
8	Design and Development of Internet of Things (IoT) Based Soil Parameters Monitoring System in Agricultural Domain	International Conference on Internet of Things (IoT) and its Applications	ISSN: 2349-5138	New ACS College Ahmednagar	23 <sup>rd</sup> -24 <sup>th</sup> Jan 2019
9	Backscattering Signal ( $\sigma^0$ ) Retrieval from Microwave Synthetic Aperture Radar (SAR) Dataset Using Integral Equation Model	The 39 <sup>th</sup> Asian Conference on Remote Sensing (ACRS-2018)	---	Malaysia	15 <sup>th</sup> to 19 <sup>th</sup> Oct 2018

10	A Study of Compositional Mapping of Lunar Surface Using Chandrayaana-1 HYSI Sensor Data	International Conference on Applied Science (ICAS-17)	ISSN: 2319-8648	Shri KumarswamiMahavidyalaya, AUSA	26 <sup>th</sup> -27 <sup>th</sup> Dec 2017
11	Hyperspectral Image Analysis for Mineral Exploration in Badush Region of Iraq	The 38 <sup>th</sup> Asian Conference on Remote Sensing (ACRS-2017)	---	The Ashok Hotel, New Delhi	23 <sup>rd</sup> -27 <sup>th</sup> Oct 2017
12	Support Vector Machine (SVM) Based Supervised Classification Analysis for Microwave SIR-C PolSAR Image	1 <sup>st</sup> International Conference on Digital Signal and Image Processing (ICoDISP-2017)	ISBN: 978-81-931558-9-9	MIT, Aurangabad	7 <sup>th</sup> – 8 <sup>th</sup> March 2017
13	Unsupervised and Supervised Classification of Water Bodies: An Analysis from Microwave C-Band SIR-C SAR Image	National Conference on Innovation in Nanomaterials and Nanotechnology- 2017 (NCINMNT-2017)	ISSN: 2394-4072	Raj. Shahu College, Pathri, Tq. Phulabri, Dist: Aurangabad	21 <sup>st</sup> Jan 2017
14	Classification of Polarimetric SAR (POLSAR) Image Analysis using Decomposition Techniques	National Conference on Digital Image & Signal Processing (NCDISP-2016)	ISBN: 978-93-5158-593-0	MAEER's ACS College, Pune	19 <sup>th</sup> to 20 <sup>th</sup> Feb 2016
15	Microwave Satellite Imagery Noise Reduction Using Linear Filter	International Conference on Emerging Trends and Issues in Research & Development (ETIRD-2016)	---	MSG College, Malegaon	17 <sup>th</sup> to 18 <sup>th</sup> Feb 2016



16	Dielectric Spectroscopy of Liquid Sensor	International Conference on Materials Science and Ionizing Radiation Safety & Awareness ICMSIRSA-2016)	---	Dept. of Physics, Shivaji University Kolhapur	28 <sup>th</sup> to 30 <sup>th</sup> Jan 2016
17	Temperature Dependent Dielectric Parameters of N-Methyl Acetamide in Ethylene Glycol at High Frequency	103 <sup>rd</sup> Indian Science Congress	---	University of Mysore, Mysuru	3 <sup>rd</sup> to 7 <sup>th</sup> Jan 2016
18	Speckle Filtering of Microwave Fine Quad Polarised RADARSAT-2 SAR Image using Mean and Median Filter	International Conference on Functional Materials & Microwaves (ICFMM-2015)	ISSN (P): 0974-0678 ISSN (O): 2320-9593	Dept. of Physics Dr. B. A. M. U. Auranagabad	28 <sup>th</sup> to 30 <sup>th</sup> Dec 2015
19	SAR Image Analysis for Microwave C- Band Fine Quad Polarised RADARSAT-2 Using Decomposition & Speckle Filter Techniques	International Conference on Innovative Minds (ICITDCEME-2015)	ISSN: 2394-3696	Vishwabharati Academy's COE, Ahmadnagar	28 <sup>th</sup> to 29 <sup>th</sup> Dec 2015
20	Design and Development of Wireless Data Acquisition System for Co-Generation Plant of Sugar Factory	National Conference on Emerging Trends in Electronics and Computer Science (ETECS-2015)	---	Shivaji University, Kolhapur	13 <sup>th</sup> to 14 <sup>th</sup> Feb 2015
21	Study of Kedarnath Crisis SAR Image Using Point and Spatial Technique for Image Enhancement	National Conference on Digital Image & Signal Processing (NCDISP-2015)	ISBN: 978-93-84916-62-6	MAEER's ACS College, Pune	12 <sup>th</sup> to 13 <sup>th</sup> Feb 2015
22	Liquid Dielectric Constant Measurement Techniques	National Conference on Material Science - 2014	---	KSK College, Beed	12 <sup>th</sup> to 13 <sup>th</sup> Dec 2014

23	Microwave Dielectric Relaxation Study of Binary Mixture of 2-Ethoxyethanol Chlorobenzene Using Time Domain Reflectometer Technique	National Conference Microwave Techniques and Applications (NCMTA-2013)	ISBN: 978-83587-03-2	Dept. Of Physics Maulana Azad College Aurangabad	29 <sup>th</sup> – 30 <sup>th</sup> November 2013
24	Design of Energy Efficient Smart Wireless Embedded System for study of Greenhouse related parameters using Multi Nodal Sensing	56 <sup>th</sup> Annual Technical Convention & National Conference on Growth of Technologies in Electronics, Computers and Telecom- Indian Perception (GTECT-2013)	ISSN: 0975-8887	IETE Mumbai	28 <sup>th</sup> – 29 <sup>th</sup> September 2013
25	Dielectric Relaxation study of Ethylene Glycol Monomethyl Ether with Aromatic Compounds	2 <sup>nd</sup> International Conference on Current Trends and Challenges in Management, Engineering, Computer Applications and Technology	---	Deogiri Institute of Engineering and Management Studies, Aurangabad	23 <sup>rd</sup> – 24 <sup>th</sup> March 2013
26	Dielectric Relaxation Study of Binary Mixture Of 2-Ethoxyethanol With Bromobenzene Using Time Domain Reflectometry Technique	17 <sup>th</sup> National Seminar on : Ferroelectrics & Dielectrics” (XVII NSFD-2012)	---	Department of Physics, ITER,SOA University, Bhubaneswar	17 <sup>th</sup> to 19 <sup>th</sup> December 2012

27	Dielectric Relaxation Study of Binary Mixtures having Shielded Charge Distribution with Exposed Charge Distribution Using Time Domain Reflectometry	International Conference on "Recent Advances in Microwave Theory and Applications"	ISBN: 978-1-4244-2690-4	Department of Physics, University of Rajasthan Jaipur	21 <sup>st</sup> - 24 <sup>th</sup> November 2008
28	Investigations Of Intermolecular Interactions Between 2-Methoxyethanol And Nitrobenzene At Different Temperatures Through Dielectric Relaxation Study Using Time Domain Reflectometry Technique	International Conference on "Microwaves and optoelectronics"(ICMO 2007)	ISBN: 978-1-4244-6057-1	Dr. BAMU, Aurangabad	17 <sup>th</sup> -20 <sup>th</sup> December 2007
29	Dielectric Relaxation Study of Polar Polar Binary Mixtures Using TDR Technique	International Conference on " Advanced Materials and Applications – 2007	ISBN: 978-81-89927-19-6	Dept of Physics Shivaji University , Kolhapur	15 <sup>th</sup> -17 November 2007
30	Dielectric Relaxation Study of Binary Mixture Of 2-Methoxyethanol With Chlorobenzene Using Time Domain Reflectometry Technique	National Conference on "Recent Advances in Microwave Technique and Applications"	ISSN: 0149-645X	Department of Physics, University of Rajasthan Jaipur	6 <sup>th</sup> - 8 <sup>th</sup> October 2006