

Prof. L.P. Deshmukh
School of Physical Sciences, Solapur University, Solapur
Top Ten Research publications from last Five years

Sr. No.	Title Paper	Authors	Name of Journal	Vol./ Year/ Page No.	Impact Factor
1.	Wireless sensor network system: gas leakage detection and monitoring,	T.H.Mujawar, V.D. Bachuwar, M.S. Kasbe, A.D. Shaligram, and L.P. Deshmukh	International Journal of Current Research	7, (2015) 18445-18450.	6.2
2.	Electrochemical photovoltaic (PV) studies of (Cd, Co) S- thin film electrodes deposited by a liquid phase chemical deposition route,	S.T. Mane, P.C. Pingale, S.A. Lendave, V.S. Karande and L.P. Deshmukh	Electrochemica Acta	102, (2013) 113-119.	4.50
3.	On the surface morphology and transport properties of chemical bath deposited CoCdS thin films	S.T. Mane, P.C. Pingale, R.V. Suryawanshi, V.S. Karande and L.P. Deshmukh	Electrochemica Acta	144, (2013) 494-499	4.50
4.	Cu _{1-x} In _x Se ₂ thin films: deposition by spray pyrolysis and characteristics	L.P. Deshmukh , R.V. Suryawanshi, E.U. Masumdar and M. Sharon	Solar Energy	86 (2012) 1910-19	3.46
5.	Development of wireless sensor network system for LPG gas leakage detection system	T.H.Mujawar, V.D. Bachuwar, M.S. Kasbe, A.D. Shaligram, L.P. Deshmukh	IJSER	6 (2015) 558-563.	3.2
6.	An Electronic nose with LabVIEW using SnO ₂ based gas sensor: application to test freshness of the fruits	M.S. Kasbe, S. L. Deshmukh, T.H.Mujawar, V.D. Bachuwar, L.P. Deshmukh , and A.D. Shaligram	IJSER	6 (2015) 1977-1981.	3.2
7.	Synthesis, structure and spectro-microscopic studies of polycrystalline Hg _x Pb _{1-x} S thin films grown by a chemical route	A.N. Chattarki, N.N. Maldar, L.P. Deshmukh	J. Alloys and Compounds	597(2014)2 23-229	2.999
8.	Cobalt sulfide thin films: Chemical growth, reaction kinetics and microstructural analysis	S.S. Kamble, Andrzej Sikora, S.T. Pawar, N.N. Maldar, L.P. Deshmukh	J. Alloys and Compounds	623 (2015) 466-472.	2.999
9.	Morphology reliance of cobalt sulfide thin films: A chemo-thermo-mechanical perception	S.S. Kamble, A. Sikora, S.T. Pawar, R.C. Kambale, N.N. Maldar, L.P. Deshmukh	J. Alloys and Compounds	631 (2015) 303-314.	2.999
10.	Role of pH in aqueous alkaline chemical bath deposition of lead sulfide thin films	A.N. Chattarki, S.S. Kamble and L.P. Deshmukh	Mat. Letters	67 (2012) 39-41	2.48
Total Impact Factor					36.54

Prof. S. S. Suryavanshi
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Top Ten Research publications from last Five years

Sr. No.	Title with Vol. ,Year and page Nos.	Authors	Vol (Year) Page	Name of Journal	Whether peer reviewed. Impact Factor, if any
1	Effect of Pd and Ce on the enhancement of ethanol vapor response of SnO ₂ thick films	L.K. Bagal, J.Y. Patil , M.V.Vaishampayan, I.S. Mulla, S.S. Suryavanshi	207(2015)383-390	Sensors and Actuators B: Chemical	4.101
2	Hydrothermally synthesized tungsten trioxide nanorods as NO ₂ gas sensors	V.B. Patil, P.V.Adhyapak, P.S.Patil S.S.Suryavanshi , I.S.Mulla,	41(2015)3845-3852	Ceramic International	2.605
3	Synthesis, characterization and LPG response of Pd loaded Fe doped tin oxide thick films	L.P. Chikhale , J.Y. Patil , A.V. Rajgure , R.C. Pawar, I.S. Mulla, S.S. Suryavanshi	608 (2014) 133-140	Journal of Alloys and Compounds	2.999
4	Synthesis of glycine combusted NiFe ₂ O ₄ spinel ferrite: A highly versatile gas sensor	J.Y.Patil, D.Y.Nadargi b, J.L.Gurav I.S.Mulla, S.S.Suryavanshi	124(2014)144-147	Materials Letters	2.48
5	Oxalic acid induced hydrothermal synthesis of single crystalline tungsten oxide nanorods	V.B. Patil, P.V. Adhyapak, S.S. Suryavanshi , I.S. Mulla	590 (2014) 283-288	Journal of Alloys and Compounds	2.999
6	Effect of Bi doping on structural, morphological, optical and ethanol vapor response properties of SnO ₂ nanoparticles	L.P.Chikhale , J.Y.Patil , F.I.Shaikh, A.V.Rajgure , R.C.Pawar , I.S.Mulla , S.S. Suryavanshi	27(2014)121-129	Materials Science in Semiconductor Processing	1.98
7	Liquefied petroleum gas sensing performance of cerium doped copper ferrite	M.S. Khandekar, N.L.Tarwal, J.Y.Patil, F.I.Shaikh, I.S.Mulla, S.S.Suryavanshi	39 (2013) 5901-5907	Ceramics International	2.605
8	Gas response properties of citrate gel synthesized nanocrystalline MgFe ₂ O ₄ : Effect of sintering temperature	J.Y. Patil I.S. Mulla, S.S. Suryavanshi	48 (2013) 778-784	Materials Research Bulletin	2.24
9	Studies on the resistive response of nickel and cerium doped SnO ₂ thick films to acetone vapor	L.K. Bagala, J.Y.Patila, I.S.Mulla, S.S.Suryavanshi	38 (2012) 6171-6179	Ceramics International	2.605
10	Combustion synthesis of magnesium ferrite as liquid petroleum gas (LPG) sensor: Effect of sintering temperature	J.Y. Patil , M.S. Khandekar I.S. Mulla, S.S. Suryavanshi	12 (2012) 319-324	Current Applied Physics	2.11
Total Impact Factor					26.724

Dr. B. J. Lokhande
School of Physical Sciences, Solapur University, Solapur
Top Ten Research publications from last Five years

Sr. No.	Title Paper	Authors	Name of Journal	Vol./ Year/ Page No.	Impact Factor
1.	Efficient gas sensitivity in mixed bismuth ferrite micro (cubes) and nano (plates) structures	S. D. Waghmare, V. V. Jadhav, S. K. Gore, Seog-Joo, Yoon, Swapnil B. Ambade, B.J. Lokhande, Rajaram S. Mane, Sung-Hwan Han.	Materials Research Bulletin	47 (2012) 2978–2983	2.288
2.	Electrochemical characterization of SILAR deposited nano-fibrous CdO	B.J. Lokhande, R.C. Ambare, R.S. Mane, S.R. Bharadwaj	Invertis Journal of Renewable Energy	2 (2012) 1-10	---
3.	Boron-doped cadmium oxide composite structures and their electrochemical measurements	B.J. Lokhande, R.C. Ambare, R.S. Mane, S.R. Bharadwaj,	Material Research Bulletin	48 (2013) 2978-2983	2.288
4.	Concentration-dependent electrochemical supercapacitive performance of Fe ₂ O ₃	B.J. Lokhande, R.C. Ambare, Rajaram S. Mane and S.R. Bharadwaj	Current Applied Physics	13 (2013) 985-989	2.212
5.	Impact of % H ₂ O ₂ incorporation on crystallinity, morphology and electrochemical measurements of sprayed Co ₃ O ₄ films	R.C. Ambare, R. S. Mane, S.R. Bharadwaj and B. J. Lokhande	Invertis Journal of Renewable Energy	4 (2013) 198-205	---
6.	Concentration and volume of the spraying solution affects on the capacitive behaviour of the Co ₃ O ₄ thin films	R.C. Ambare, S.R. Bharadwaj, B. J. Lokhande,	Invertis Journal of Renewable Energy	4 (2013) 212-221	---
7.	Effect of different non aqueous medias on supercapacitive properties of Co ₃ O ₄ thin film electrode prepared by spray pyrolysis	R.C. Ambare, S.R. Bharadwaj and B. J. Lokhande	International Journal of Science and Nature	5 (2014) 663-668	1.902
8.	Thermal optimization and supercapacitive application of electrodeposited Fe ₂ O ₃ thin films	B. J. Lokhande, R.C. Ambare, S.R. Bharadwaj,	Measurement	47 (2014) 427-432	1.484
9.	Electrochemical characterization of Mn: Co ₃ O ₄ thin films Prepared by spray pyrolysis via aqueous route	R.C. Ambare, S.R. Bharadwaj and B. J. Lokhande	Current Applied Physics	14 (2014) 1582-1590	2.212
10.	Non aqueous route spray pyrolysed Ru:Co ₃ O ₄ thin electrodes for supercapacitor application	R.C. Ambare, S.R. Bharadwaj and B. J. Lokhande	Applied Surface Science	349 (2015) 887–896	2.711
Total Impact Factor					15.097

Number of books published : 02 (International publication)

1) Title- **Electrochemical Measurements**

Publisher- Lambert Academic Publishing, Germany – 2013,
ISBN – 978-3 - 659 - 44602 - 3.

2) Title- **Transparent Conducting Oxides in Supercapacitor**

Publisher- Lambert Academic Publishing, Germany – 2013,
ISBN – 978 - 3- 659 - 45804 - 0.

Dr. V.B.Patil,
School of Physical Sciences, Solapur University, Solapur.
Top Ten Research publications from last Five years

Sr. No.	Title Paper	Authors	Name of Journal	Vol./ Year/ Page No.	Impact Factor
1	H ₂ S gas sensing properties of nanocrystalline Cu-doped ZnO thin films prepared by advanced spray pyrolysis	P.S. Shewale, V.B. Patil , G.L. Agawane, M.D. Uplane	Sensors and Actuators B: Chemical	186(2013) 226-234.	4.101
2	Highly selective and sensitive room temperature NO ₂ gas sensor based on polypyrrole thin films	S.T.Navale, M.A.Chougule, R.D. Sakhare, S.R. Nalage, V.B. Patil	Synthetic Metals	189(2014)94-99.	2.256
3	Camphor sulfonic acid doped PPy/ α -Fe ₂ O ₃ hybrid nanocomposites as NO ₂ sensors	S. T. Navale, G.D. Khuspe, M.A. Chougule V. B. Patil	RSc. Advances	4(2014)27998	3.840
4	Polypyrrole, α -Fe ₂ O ₃ and their hybrid nanocomposite sensor: An impedance spectroscopy study	S.T. Navale, G.D. Khuspe, M.A. Chougule V.B. Patil	Organic Electronics	15(2014)2159-2167	4.021
5	Highly selective and sensitive CdS thin film sensor for detection of NO ₂ gas	S.T. Navale, A.T.Mane, M.A.Chougule, N.M.Shinde, JunHo Kim, V.B. Patil	RSc. Advances	4(2014)44547-44554	3.840
6	Nitrogen dioxide (NO ₂) sensing performance of p-polypyrrole/n-tungsten oxide hybrid nanocomposites at room temperature	A.T. Mane, S.T. Navale, Shashwati Sen, D.K.Aswal, S.K.Gupta V.B. Patil	Organic Electronics	16(2015)195-204	4.021
7	Facile method of preparation of PbS films for NO ₂ detection	S. T. Navale, D. K. Bandgar, M. A. Chougule, V. B. Patil	RSc. Advances	5 (2015)6518	3.840
8	Room temperature NO ₂ gas sensing properties of DBSA doped PPy-WO ₃ hybrid nanocomposite sensor	A.T. Mane, S.T. Navale, V.B. Patil	Organic Electronics	19 (2015) 15-25	4.021
9	Synthesis and structural, morphological, compositional, optical and electrical properties of DBSA-doped PPy-WO ₃ nanocomposites	A.T.Mane, S. T. Navale, R.S.Mane, M. Naushad, V. B. Patil	Progress in Organic Coatings	87(2015)88-94	2.600
10	Electrochemical supercapacitor development based on electrodeposited nickel oxide film	S. T. Navale, V.V.Mali, S.A.Pawar,R.S.Mane, M. Naushad, F.J.Stadler V. B. Patil	RSc. Advances	5(2015)51961	3.840
Total Impact Factor					36.38

Ms. T. H. Mujawar
School of Physical Sciences, Solapur University, Solapur
Top Ten Research publications from last Five years

Sr. No.	Title Paper	Authors	Name of Journal	Vol./ Year/ Page No.	Impact Factor
1	Air Pollution Monitoring System in Solapur City Using Wireless Sensor Network	T.H.Mujawar, V.D.Bachuwar, S.S.Suryavanshi	Proceedings of International Journal of Computer Applications	CCSN-(2013) (1)11-15	0.9
2	Circularly Polarized Square MS Patch Antenna Design with two Corners Chopped for ISM Band	M.S.Kasbe, T.H.Mujawar, V.D.Bachuwar, S.A.Pawar, S.S.Suryavanshi	Special issue of International Journal of Computer Applications in Engineering Sciences	VolumeIII (2014) 31-35	0.4
3	Development of wireless sensor network system for LPG gas leakage detection system	T.H.Mujawar, V.D.Bachuwar, M.S.Kasbe, A.D. Shaligram, L.P. Deshmukh	International Journal of Scientific and Engineering Research	Volume6 (2015) 558-563	3.2
4	Freshness study of non-destructive papaya by using an electronic nose	M.S.Kasbe, T.H.Mujawar, V.D.Bachuwar, L.P. Deshmukh, A.D. Shaligram	Special issue of International Journal of Computer Applications in Engineering Sciences	Vol-V(2014) 1-7	0.4
5	A Wireless Sensor Network: A Dynamic System for Gas Leakage Detection	T.H.Mujawar, V.D.Bachuwar, M.S.Kasbe, A.D. Shaligram, L.P. Deshmukh	Proceedings of International Journal of Computer Applications	CCSN(2014) 1-4	0.9
6	wireless sensor network system: gas leakage detection and monitoring	T.H.Mujawar, V.D. Bachuwar, M.S. Kasbe, A.D. Shaligram, L.P. Deshmukh	International Journal of Current research	Vol.7(2015) 18445-18450	6.2
7	An Electronic nose with LabVIEW using SnO ₂ Based Gas Sensors: Application to test freshness of the fruits	M.S.Kasbe, S.L.Deshmukh T.H.Mujawar, V.D.Bachuwar, L.P. Deshmukh, A.D. Shaligram	International Journal of Scientific and Engineering Research	Volume6 (2015) 1977-1982	3.2
Total Impact Factor					15.20

Ms. M.S. Kasbe
School of Physical Sciences, Solapur University, Solapur
Top Ten Research publications from last Five years

Sr. No.	Title Paper	Authors	Name of Journal	Vol./ Year/ Page No.	Impact Factor
1	Circularly Polarized Square MS Patch Antenna Design with two Corners Chopped for ISM Band	M.S.Kasbe , T.H.Mujawar, V.D.Bachuwar, S.A.Pawar, S.S.Suryavanshi	Special issue of International Journal of Computer Applications in Engineering Sciences	Volume III (2104) 31-35	0.4
2	Development of wireless sensor network system for LPG gas leakage detection system	T.H.Mujawar, V.D.Bachuwar, M.S.Kasbe , A.D. Shaligram, L.P. Deshmukh	International Journal of Scientific and Engineering Research	Volume (2015) 558-563	3.2
3	Freshness study of non-destructive papaya by using an electronic nose	M.S.Kasbe , T.H.Mujawar, V.D.Bachuwar, L.P. Deshmukh, A.D. Shaligram	Special issue of International Journal of Computer Applications in Engineering Sciences	Vol-V (2014) 1-7	0.4
4	A Wireless Sensor Network: A Dynamic System for Gas Leakage Detection	T.H.Mujawar, V.D.Bachuwar, M.S.Kasbe , A.D. Shaligram, L.P. Deshmukh	Proceedings of International Journal of Computer Applications	CCSN (2014)1-4	0.9
5	wireless sensor network system: gas leakage detection and monitoring	T.H.Mujawar, V.D.Bachuwar, M.S.Kasbe , A.D. Shaligram, L.P. Deshmukh	International Journal of Current research	Vol.7 (2015) 18445- 18450	6.2
6	An Electronic nose with LabVIEW using SnO ₂ Based Gas Sensors: Application to test freshness of the fruits	M.S.Kasbe , S.L.Deshmukh T.H.Mujawar, V.D.Bachuwar, L.P. Deshmukh, A.D. Shaligram	International Journal of Scientific and Engineering Research	Volume 6 (2015)1977 -1982	3.2
Total Impact Factor					14.30

Mr. V. D. Bachuwar
School of Physical Sciences, Solapur University, Solapur
Top Ten Research publications from last Five years

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1	Air Pollution Monitoring System in Solapur City Using Wireless Sensor Network	T.H.Mujawar, V.D.Bachuwar , S.S.Suryavanshi	Proceedings of International Journal of Computer Applications	CCSN-(2013) (1)11-15	0.9
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