CURRICULUM VITAE

1.	Name		Dr. Suresh S	
2.	Position		Associate Professor	
3.	Qualification		MSc, SLET, PhD	
4.	NET/SLET Qualified & year		1996	
5.	Area of Specialization		Optoelectronics	
6.	Research Interests		Nano technology, Thin films, Photovoltaic technology, Excitonic solar cells	
7.	Impact of Research		Citations	h-index
			114	7
8.	Mailing address (College)		sureshsureshnivas@gmail.com	
9.	E-mail		sureshsureshnivas@gmail.com	
10.	Mobile/Phone No.		9447981459	
11.	Date of Birth		20/02/1971	
12.	Academic History			
		Degree	Institution	
	a)	Ph.D	Faculty of Applied science and technology, Department of optoelectronics, University of kerala.	
	b)	Master's	Cochin University of Science and Technology, Kochi	
	c)	Bachelor's	Mahatma Gandhi University, Kottayam	
13.	Faculty Job Experience			
		Position	Institution	Year
	a)	Senior Technical Assistant	IIT, Delhi	1993
	b)	Lecturer	College of Applied Sciences, Mavelikkara	1994-1998
	c)	Lecturer	Sree Ayyappa College, Eramallikkara	1998-2004
	d)	Lecturer (senior scale)	,,	2004-2009
	e)	Lecturer (Sel. Grade)	,,	2009-2012
	f)	Associate Professor	,,	2012 onwards

14.	Major/Minor Projects sanctioned			
		Topic	Funding Agency	Year
	a)	Design and simulation study of dielectric resonator antenna	University Grants Commission	2010
15.	Grants received			
		Funding Agency	Year	Amount (Rs.)
	a)	UGC	2010	120000/-
16.	Awards/Honours/Prizes			
		Name		Year
	a)	Best paper award (Physical Sciences), Indian Science Congress Association		2015
	b)	Best paper award, IEEE photonics Society, Trivandrum		2015
	c)	Best presentation award, Material Science Research Society of India, TVM.		2017
	d)	I Rank, Development of soft skills and personality development, IIT Kanpur (NPTEL, Swayam)		2019
17.	Academic Representations in University					
		Position	UG/PG	Department	University	Year
	a)	Academic Council Member			Kerala	2017 –
	b)	Board of Studies	UG and PG	Electronics	Kerala	2010-2016
	c)	Chairman, Board of Examinations	UG	Electronics	Kerala	2018-2017, 2020
18.	Academic Co-ordinator in College			
		Position	Name of event	Period/Year
	a)	Co-ordinator	State Resource Center,Govt of Kerala	2017-18
	b)	Co-ordinator	Centre for Adult continuing education and extension, University of Kerala	2019 -
19.	Conference/Seminar/Workshop organized as Convener		
		Topic	Date
	a)	Recent trends in Energy and Environment	2019
20.	Publications (Edited books)			
		Topic	ISSN & Press	Year
	a)	Recent Trends in Electronic Communication and Signal processing	978-81-925229	2013
	b)	Recent trends in Energy and Environment	978-81-936117-9-1	2019
21.	Invited Talks in conferences/Seminars			
		Name of conference/seminar	Institute	Date
	a)	Photovoltaics- Dye sensitized solar cells, National conference on Photonics –Trends and applications	Govt College, Mananthavadi	November 7-8, 2018

	b)	Solar photovoltaics- Fundamentals and applications	STAS, MG University,	Dec 2014

Patent

APPLICATION NUMBER	**201741032795**
APPLICANT NAME	1.University of Kerala represented by the Registrar 2. **SURESH S** 3. Dr. V.P MAHADEVAN PILLAI
TITLE OF INVENTION	**METHODS FOR PERFORMANCE ENHANCEMENT IN EXCITONIC SOLAR CELLS BY PLASMONIC BLOCKING LAYER**
PUBLICATION DATE (U/S 11A)	29/09/2017

Journal Publications

Sl No	Title	Cited by	Year
1	Effect of substrate temperature, laser energy and post-deposition annealing on the structural, morphological and optical properties of laser-ablated perovskite BaSnO 3 films J John, S Suresh, SR Chalana, VPM Pillai Applied Physics A 125 (11), 743		2019
2	Influence of background oxygen pressure and post - deposition annealing on the structural, morphological, optical and luminescence properties of laser ablated SrWO4 thin films VPMP J.S. Priya, R. Sreeja Sreedharan, V.S. Kavitha, S. Suresh, R. Reshmi ... Materials Science in Semiconductor Processing 103, 104615	1	2019
3	Effect of silver incorporation on the structural and morphological characteristics of RF sputtered indium oxide films. B Silpa Satheesh, VS Kavitha, RR Krishnan, SR Chalana, S Suresh, ... IOP Publishing		2019
4	Effect of silver incorporation on the structural and morphological characteristics of RF sputtered indium oxide films		2019

	VPMP Silpa Satheesh B, KavithaV.S, Reshmi Krishnan, Chalana S.R,Suresh S ... Materials Science and Engineering 499, 012001-12007		
5	Luminescent Ta doped WO3 thin films as a probable candidate for excitonic solar cell applications VS Kavitha, S Suresh, SR Chalana, VPM Pillai Applied Surface Science 466, 289-300	1	2019
6	Tailoring the properties of zinc oxide films by incorporating gold nanoparticles using RF magnetron sputtering RS Sreedharan, VS Kavitha, S Suresh, RR Krishnan, RJ Bose, VPM Pillai Applied Physics A 124 (12), 815		2018
7	Plasmonic Ag@ Nb2O5 surface passivation layer on quantum confined SnO2 films for high current dye-sensitized solar cell applications S Suresh, GE Unni, M Satyanarayana, AS Nair, VPM Pillai Electrochimica Acta 289, 1-12	7	2018
8	Silver nanoparticles-incorporated Nb2O5 surface passivation layer for efficiency enhancement in dye-sensitized solar cells S Suresh, GE Unni, M Satyanarayana, AS Nair, VPM Pillai Journal of colloid and interface science 524, 236-244	8	2018
9	Volume holographic gratings in acrylamide-based photopolymer to provide selective light as an added input for improving the performance of dye-sensitized solar cells AB Sreebha, S Suresh, CO Sreekala, VPM Pillai CURRENT SCIENCE 114 (11), 2267-2272	1	2018
10	Raman spectroscopic and fractal analysis of blood samples of dengue fever patients MS Swapna, SS Shinker, S Suresh, S Sankararaman Bio-medical materials and engineering, 1-11	3	2018
11	Ag@ Nb 2 O 5 plasmonic blocking layer for higher efficiency dye-sensitized solar cells S Suresh, GE Unni, M Satyanarayana, AS Nair, VPM Pillai Dalton Transactions 47 (13), 4685-4700	10	2018
12	Study on the Structural, Morphological and Optical Properties of RF-Sputtered Dysprosium-Doped Barium Tungstate Thin Films S Hridya, VS Kavitha, SR Chalana, RR Krishnan, RS Sreedharan, ... JOM 69 (11), 2272-2277	1	2017
13	Bright visible luminescence from highly textured, transparent Dy3+ doped RF sputtered zinc oxide films RS Sreedharan, RR Krishnan, GS Kumar, VS Kavitha, SR Chalana, ... Journal of Alloys and Compounds 721, 661-673	8	2017
14	Phase modification and morphological evolution in Nb2O5 thin films and its influence in dye-sensitized solar cells S Suresh, GE Unni, C Ni, RS Sreedharan, RR Krishnan, ... Applied Surface Science 419, 720-732	18	2017

15	Study on the structural, morphological and optical properties of RF sputtered gallium doped zinc oxide thin films SSVPMP V.M. Vimuna, R. Sreeja Sreedharan, R. Resmi Krishnan, V.S. Kavitha, S ... Materials Today: Proceedings 4 (2017), 4417–4433	2	2017
16	Hemigraphis colorata as a natural dye for solar energy conversion VPMP V.G. Nandakumar, S. Suresh, C.O. Sreekala, S.K. Sudheer Materials Today: Proceedings 4 (2017), 4358–4365	6	2017
17	Visible luminescence from highly textured Tb3+ doped RF sputtered zinc oxide films RS Sreedharan, RR Krishnan, RJ Bose, VS Kavitha, S Suresh, ... Journal of Luminescence 184, 273-286	13	2017
18	Terbium oxide doped MoO3 nanostructures: Morphology engineering and enhanced photoluminescence GS Kumar, N Illyaskutty, S Suresh, RS Sreedharan, VU Nayar, VPM Pillai Journal of Alloys and Compounds 698, 215-227	11	2017
19	Effect of Nb doping on the structural, morphological, optical and electrical properties of RF magnetron sputtered In_2O_3 nanostructured films R Reshmi Krishnan, SR Chalana, S Suresh, SK Sudheer, ... physica status solidi c 14 (1-2), 1600095	4	2017
20	Electro chemical impedance spectrscopic analysis of Nb_2O_5 blocking layer in dye sensitised solar cells S Suresh, TG Deepak, C Ni, M Satyanarayana, AS Nair, VPM Pillai 2016 International Conference on Electrical, Electronics, and Optimization …		2016
21	The role of crystallinity of the Nb 2 O 5 blocking layer on the performance of dye-sensitized solar cells S Suresh, TG Deepak, C Ni, CNO Sreekala, M Satyanarayana, AS Nair, ... New Journal of Chemistry 40 (7), 6228-6237	21	2016

Conference proceedings

1. "Effect of Crystallinity of Nb 2 O 5 Blocking Layer in Dye Sensitized Solar Cells", S Suresh, C.O Sreekala, **Indian Science Congress**, University of Mumbai, Jan 3-5, 2015.
2. "Effect of Ultra Thin Nb 2 O 5 Blocking Layer in Dye Sensitized Solar Cells", S Suresh, C.O Sreekala, Dr. M Satyanarayana, Prof. V P Mahadevan Pillai, **IC-EEE**, Dept of Physics, CUSAT, February 4-7, 2015
3. "Effect of RF Power on structural, morphological and optical properties of Nb 2 O 5 thin films prepared by RF magnetron sputtering", S Suresh, Reshmi Krishnan, R Sreeja Sreedharan, Dr. M

Satyanarayana, Prof. V P Mahadevan Pillai, **National Conference**, NSS College, Rajakumari, March 2015.

4. "Hemigraphis Colorata as a Natural dye for Solar Energy Conversion", V.G. Nandakuma a , S. Suresh, C.O. Sreekala, S.K. Sudheer, V.P. Mahadevan, International Symposium on Photonics Applications and Nanomaterials, **SCIMST**, Trivandrum, OCT 28-30, 2015.

5. "Origin of longer electron life time in an amorphous blocking layer and its role on the performance of Dye Sensitised Solar Cells", S.Suresh, T. G. Deepak, C.O.Sreekala, A. Sreekumaran Nair, M.Satyanarayana and V.P Mahadevan Pillai , National Seminar on Photonics and its applications (**NSPA-2015**), December 9-11, 2015

6. "Holographic transmission gratings in photopolymer for efficiency enhancement in solar cells under various photometric conditions", A.B Sreebha, S.Suresh, P.T Ajithkumar, V.P Mahadevan Pillai, National Seminar on Photonics and its applications (NSPA-2015), December 9-11, 2015

7. Phase evolution in Niobium Oxide (Nb2O5) nano structured thin films on thermal annealing, S Suresh, Dr. M Satyanarayana, Prof. V P Mahadevan Pillai, National Laser Symposium**,** **NLS-23**, S.V. University, Tirupati. 3-6 Dec 2014

8 Fabrication and Characterization of Silicon Wafer Based Solar Cell by Atmospheric Pressure Chemical Vapour Deposition, **NSST**, Dept of Optoelectronics, University of Kerala 2012.