Research Papers in National/International Journals:

	earch rapers in National/ International Journals:						
1.							
	and evaluation of their barrier heights.						
	Subhash Chand and Jitendra Kumar						
	Solid State Electronics 38 , (1995) 1103-1104.						
2.	Current-voltage characteristics and barrier parameters of Pd ₂ Si/p-Si(111) Schottky						
	diodes in a wide temperature range.						
	Subhash Chand and Jitendra Kumar						
	Semiconductor Science & Technology 10, (1995) 1680-1688.						
3.	Current-transport in Pd ₂ Si/n-Si(100) Schottky barrier diodes at low temperatures.						
	Subhash Chand and Jitendra Kumar						
	Applied Physics A 63 , (1996) 171-178.						
4.	On the Existence of a barrier heights distribution in Pd ₂ Si/Si Schottky diodes.						
	Subhash Chand and Jitendra Kumar						
	Journal of Applied Physics 80 , (1996) 288-294						
5.	Evidence for the double distribution of barrier heights in Pd ₂ Si/n-Si Schottky diodes						
	from I-V-T measurements.						
	Subhash Chand and Jitendra Kumar						
	Semiconductor Science & Technology 11, (1996) 1203-1208						
6.	Electron transport and barrier inhomogeneities in palladium silicide Schottky diodes.						
	Subhash Chand and Jitendra Kumar						
	Applied Physics A 65 , (1997) 497-503						
7.	Simulation and analysis of current-voltage characteristics of Schottky diodes containing						
	barrier inhomogeneities.						
	Subhash Chand and Jitendra Kumar						
	Semiconductor Science & Technology 12, (1997) 899-906						
8. Effects of barrier height distribution on the behavior of a Schottky diode.							
	Subhash Chand and Jitendra Kumar						
	Journal of Applied Physics 82 , (1997) 5005-10						
9.	Origin of non-linear current-voltage characteristics of metal-semiconductor contacts: A						
	numerical study						
	Subhash Chand						
	Indian Journal of Engineering and Materials Sciences 7, (2000) 268-273						
10.	An accurate approach for analyzing inhomogeneous Schottky diodes with a Gaussian						
	distribution of barrier heights.						
	Subhash Chand						
	Semiconductor Science & Technology 17, (2002) L36-L40						
11.	On intersecting behaviour of current-voltage characteristics of inhomogeneous						
	Schottky diodes at low temperatures.						
Subhash Chand							
	Semiconductor Science & Technology 19, (2004) 82-86						
12.	Analysis of current-voltage characteristics of inhomogeneous Schottky diodes at low						
	temperatures.						
	Subhash Chand and Saroj Bala						
	Applied Surface Science 252 (2005) 358-363						
13.	A comparative study of numerical and analytical approaches of simulating						

	inhomogeneous Schottky diodes characteristics						
	Subhash Chand and Saroj Bala						
1.4	Semiconductor Science & Technology 20 , (2005) 1143-1148						
14.	Theoretical evidence for random variation of series resistance of elementary diodes						
	in inhomogeneous Schottky contacts						
	Subhash Chand						
	Physica B 373 (2006) 284-290.						
15.							
	barrier diodes						
	Subhash Chand and Saroj Bala						
	Physica B 390 , (2007) 179-184.						
16.							
	Polypyrrole-Poly(vinylidene fluoride) Composite Films						
	Manish Taunk, Atul Kapil and Subhash Chand						
	The Open Macromolecules Journal, 2 (2008) 74-79.						
17.							
	Atul Kapil, Manish Taunk and Subhash Chand						
	Synthetic Metals 159 , (2009) 1267. IF=2.109						
18.	Low Temperature Charge Transport Study in p-Toluenesulfonic Acid Doped						
	Polyaniline						
	Atul Kapil, Manish Taunk and Subhash Chand						
	Asian Journal of Chemistry Vol. 21 , No. 10 (2009), S138-142 IF= 0.27						
19.	Preparation and charge transport studies of chemically synthesized polyaniline						
	Atul Kapil, Manish Taunk and Subhash Chand						
	J Mater Sci: Mater. Electron. 21 , 399-404 (2010). IF= 1.486						
	ISSN: 0957-4522 (print version) ISSN: 1573-482X (electronic version)						
20.	Hopping and tunneling transport over a wide temperature range in chemically						
	synthesized doped and undoped polypyrrole						
	Manish Taunk, Atul Kapil, Subhash Chand						
	Solid State Communication 150 (2010) 1766-1769						
21.							
	sodium bis(2-ethylhexyl) sulfosuccinate.						
	Manish Taunk, Atul Kapil and Subhash Chand						
	J Mater Sci: Mater. Electron. 22 (2011)p136–142						
22.	Study of Synthesis and Temperature Dependence of DC Conductivity in the Low						
	Temperature Range for Poly(N-Methylaniline)						
	Atul Kapil, Subhash Chand						
	Journal of Electronic Materials 40 (2011) 1364-1368						
23.	Effect of inverse doped surface layer in Schottky barrier modification: A numerical						
	study						
	Subhash Chand, Priyanka Kaushal and Jozef Osvald						
	Journal of Electronic Materials, 41 (12) 3387-92. IF=1.635						
	Print ISSN 0361-5235 Online ISSN 1543-186X						
24.	Current voltage characteristics of Schottky diode simulated using semiconductor device						
	equations						
	Priyanka Kaushal, Subhash Chand and Jozef Osvald						

	I. (' 11 1 CEL (' 100 (2012) (0) 0) IE 0 500						
	International Journal of Electronics, 100 (2013) 686-96. IF=0.509						
25	ISSN 0020-7217 (Print), 1362-3060 (Online)						
25.	Numerical simulation study of Schottky diode characteristics with inverse doped surface						
	layer Subhash Chanda , Priyanka Kaushala and Jozef Osvald						
	Materials Science in Semiconductor Processing, 16 (13) 454-60. IF=1.338						
	ISSN: 1369-8001						
26	Bias and temperature dependent charge transport in flexible polypyrrole						
26.	devices						
	Journal of Applied Physics 115, 074507 (2014)						
	Manish Taunk, Subhash Chand						
	ISSN: 0021-8979, E-ISSN: 1089-7550						
27.							
21.	laser deposition technique						
	Journal of Alloys and Compounds 613 (2014) 395–400						
	Subhash Chand and Rajender Kumar						
	ISSN: 0925-8388						
28.	Growth and temperature dependent characterization of pulsed laser deposited Ag/n-						
20.	ZnO/p-Si/Al heterojunction.						
	J Mater Sci: Mater Electron 25 (2014) 4531–4537						
	Rajender Kumar and Subhash Chand						
ISSN: 0957-4522 (print version) ISSN: 1573-482X (electronic version)							
29.	Oxygen vacancy induced dielectric relaxation studies in Bi42xLaxTi3O12 (x 5 0.0, 0.3,						
	0.7, 1.0) ceramics						
	Sumit Bhardwaj, Joginder Paul, Subhash Chand, K. K. Raina and Ravi Kumar						
	J Mater Sci: Mater Electron 25 (2014) 4568–4576						
	Impact Factor 1.798						
	ISSN: 0957-4522 (print version) ISSN: 1573-482X (electronic version)						
30.	Structural, optical and electrical characterization of Al/n-ZnO/p-Si/Al heterostructures.						
	Rajender Kumar and Subhash Chand						
	Journal of Electronic Materials 44 (2015) 194-201.						
2.1	Print ISSN 0361-5235 Online ISSN 1543-186X						
31.							
	polypyrrole films						
	Manish Taunk and SubhashChand						
	Materials Science in Semiconductor Processing, 39 (2015) 659-664 ISSN: 1369-8001						
	Impact Factor: 1.955 5-Year Impact Factor: 1.806						
32.	Tailoring the structural and optical properties of ZnO by doping with Cd						
32.	N. Rana, Subhash Chand and Arvind K.Gathania						
	Ceramics International 41(2015)12032–12037						
Impact Factor: 2.605 5-Year Impact Factor: 2.540							
	ISSN: 0272-8842						
33.	Band gap engineering of ZnO by doping with Mg						
	N Rana, Subhash Chand and Arvind K Gathania						
	Physica. Scripta. 90 (2015) 085502 (6pp)						
•——							

2014 Impact factor = 1.126 Print ISSN: 0031-8949 Online ISSN: 1402-4896 Structural, Electrical and Red Emission Properties of Pd/n-ZnO/p-Si/Al Heterostructures Rajender Kumar and Subhash Chand Electron. Mater. Lett. 11 (973-981) 2015 DOI: 10.1007/s13391-015-4348-y **2014 Impact factor = 1.980** ISSN: 1738-8090 (print version) ISSN: 2093-6788 (electronic version) Electroactive Phase Induced Bi4Ti3O12–Poly(Vinylidene Difluoride) Composites with Improved Dielectric Properties Sumit Bhardwaj, Joginder PauL, Subhash Chand, K.K. Raina, and Ravi Kumar Journal of Electronic Materials, 44, (3710-3723) 2015 DOI: 10.1007/s11664-015-3848-8 **Impact Factor 1.491** Print ISSN 0361-5235 Online ISSN 1543-186X 36. Numerical analysis of inhomogeneous Schottky diode with discrete barrier height patches Priyank Kaushal and Subhash Chand International Journal of Electronics 103, (937-949) 2016 DOI: 10.1080/00207217.2015.1082201 2014 Impact factor = 0.459**Impact Factor: 0.414 ©2016** ISSN 0020-7217 (Print), 1362-3060 (Online) 37. Journal of Materials Science: Materials in Electronics Synthesis and characterization of flower-like ZnO structures and their applications in photocatalytic degradation of Rhodamine B dye. N. Rana, Subhash Chand and Arvind K. Gathania J Mater Sci: Mater Electron (2016) 27:2504–2510 DOI 10.1007/s10854-015-4051-7 **Impact Factor 1.798** ISSN 0957-4522 Green synthesis of zinc oxide nano-sized spherical particles using Terminalia chebula fruits extract for their photocatalytic applications N. Rana, Subhash Chand, and Arvind K. Gathania Int Nano Lett 6 (91–98)2016 DOI 10.1007/s40089-015-0171-6 ISSN Print: 2008-9295, e-ISSN: 2228-5326 Fabrication and electrical characterization of nickel/p-Si Schottky diode at low temperature Rajender Kumar, Subhash Chand Solid State Sciences 58 (2016) 115-121 10.1016/j.solidstatesciences.2016.06.003 Impact Factor: 2.041 5-Year Impact Factor: 1.916 ISSN 1293-2558