

Curriculum Vitae of Prof. Pallab Banerji

1	Name		Dr. Pallab Banerji	
2	Designation		Professor, Indian Institute of Technology (IIT), Kharagpur	
3	Specialization		Nanoscience & Technology, Electronic Materials & Devices for Energy & Optoelectronics, Energy Materials for Solar Photovoltaics & Thermoelectrics, Semiconductor Physics	
4	Address for communication	Postal Address	Materials Science Centre India Institute of Technology, Kharagpur 721302	
		E-mail:	pallab@matsc.iitkgp.ac.in; pallab_banerji@yahoo.com	
		Phone:	09434722493 (mobile)	
5	Date of Birth		1st January 1966	
6	Educational Qualifications:			
	Degree awarded		Year	University/Board
	Ph. D.		1995	Jadavpur University
7	Research Guidance	Ph. D. Supervision	14	Completed
			06	On-going
		M. Tech. Guidance	19	Completed
8	Publications	In referred Journals		96 (List attached)
		Publications in proceedings of seminars/conferences		33
		Books and Monographs		02 (Chapters)
9	Course taught	M. Tech. level	(i)	Science & Technology of Semiconductors
			(ii)	Solar Energy Materials
			(iii)	Techniques of Material Characterization
			(iv)	Semiconductor Technology
		B. Tech. level	(i)	Photonic Materials
			(ii)	Electronic Materials

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Dr. Pallab Banerji: List of publications in international journals

96. A. Kumar, P. Dhama, D. S. Saini and **P. Banerji**, Effect of Zn substitution at a Cu site on the transport behavior and thermoelectric properties in Cu_3SbSe_4 , **RSC Advances** 6, 5528 (2016).
95. K. Sarkar, Kalyan Jyoti Sarkar and **P. Banerji**, Synthesis of graphene oxide–silver nanocomposite with photochemically grown silver nanoparticles to use as a channel material in thin film field effect transistors, **RSC Advances** 5, 107811 (2015).
94. K. Sarkar, M. Palit, **P. Banerji**, S. Chattopadhyay, N. N. Halder, P. Biswas, B. Nagabhusana and S. Chowdhury, Silver catalyzed growth of $\text{In}_x\text{Ga}_{1-x}\text{As}$ nanowires on Si (001) by metal–organic chemical vapor deposition, **CrystEngComm** 17, 8519 (2015).
93. S. Samanta, P. Banerji and P. Gangopadhyay, Effective Index Based Matrix Method for Silicon Waveguides in SOI Platform, **Optik** 126, 5488 (2015).
92. P. Biswas, P. Nath, D. Sanyal and **P. Banerji**, An alternative approach to investigate the origin of p-type conductivity in arsenic doped ZnO, **Current Applied Physics** 15, 1256 (2015).
91. S. Pati, **P. Banerji** and S. B. Majumder, Properties of indium doped nanocrystalline ZnO thin films and their enhanced gas sensing performance, **RSC Advances** 5, 61230 (2015).
90. S. Kundu, M. Clavel, P. Biswas, B. Chen, H.-C. Song, P. Kumar, N. Halder, M. Hudait, **P. Banerji**, M. Sanghadasa and S. Priya, Lead-free epitaxial ferroelectric material integration on semiconducting (100) Nb-doped SrTiO_3 for low-power non-volatile memory and efficient ultraviolet ray detection, **Scientific Reports** 5, 12415 (2015).
89. Sk Masiul Islam, P. Biswas, **P. Banerji** and S. Chakraborty, InAs quantum dots as charge storing elements for applications in flash memory devices, **Materials Science & Engineering B** 198, 102 (2015).
88. S. Kundu, D. Maurya, M. Clavel, Y. Zhou, N. N. Halder, M. K. Hudait, **P. Banerji** and S. Priya, Integration of lead-free ferroelectric on HfO_2/Si (100) for high performance non-volatile memory applications, **Scientific Reports** 5, 8494 (2015).

87. P. Mukhopadhyay, R. Kumar, S. Ghosh, A. Chakraborty, A. Bag, S. Kabi, **P. Banerji** and D. Biswas, A novel growth strategy and characterization of fully relaxed un-tilted FCC GaAs on Si (100), **Journal of Crystal Growth** 418, 138 (2015).
86. Sk Masiul Islam and **P. Banerji**, Size effect of InAs quantum dots grown by metal organic chemical vapor deposition technique in storing electrical charges for memory applications, **RSC Advances** 5, 6906 (2015).
85. N. N. Halder, P. Biswas, **P. Banerji**, S. Kundu, B. Nagabhushan, K. Sarkar, S. Chowdhury and A. Chaudhuri, Photovoltaic conversion of visible spectrum by GaP capped InP quantum dots grown on Si (100) by metalorganic chemical vapor deposition, **Applied Physics Letters** 106, 012103 (2015).
84. N. N. Halder, P. Biswas, S. Kundu and **P. Banerji**, Au/p-Si Schottky junction solar cell: Effect of barrier height modification by InP quantum dots, **Solar Energy Materials & Solar Cells** 132, 230 (2015).
83. T. K. Das, S. K. Mandal, A. K. Panda, S. Bhattacharya, **P. Banerji** and A. Mitra, Giant magnetoimpedance (GMI) effect and field sensitivity of ferrofluid coated $\text{Co}_{66}\text{Fe}_2\text{Si}_{13}\text{B}_{15}\text{Cr}_4$ soft magnetic amorphous microwire, **Physics Procedia** 54, 16 (2014).
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81. S. Mahaboob Jilani and **P. Banerji**, Graphene oxide - zinc oxide nanocomposite as channel layer for thin film transistors: effect of zinc oxide loading on field effect transport, **ACS Applied Materials & Interfaces**, 6, 16941 (2014).
80. S. Pati, **P. Banerji** and S.B. Majumder, n- to p- type carrier reversal in nanocrystalline indium doped ZnO thin film gas sensors, **International Journal of Hydrogen Energy** 39, 15134 (2014).
79. P. K. Rawat and **P. Banerji**, The effect of microstructure and metal-oxide barriers on carrier transport in top-down processed, low density nanograined n-type PbTe, **RSC Advances** 4, 29818 (2014).
78. Pankaj Kumar Rawat, B. Paul and **P. Banerji**, Exploration of Zn resonance levels and thermoelectric properties in iodine doped PbTe with ZnTe nanostructures, **ACS Applied Materials & Interfaces** 6, 3995 (2014).

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53. Souvik Kundu, Ajit Kumar, S. Banerjee and **P. Banerji**, Electrical properties and barrier modification of GaAs MIS Schottky device based on MEH-PPV organic interfacial layer, **Materials Science in Semiconductor Processing** **15**, 386 (2012).
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2. **P. Banerji** and C. K. Sarkar, Estimation of the alloy scattering strength in $\text{Hg}_{0.8}\text{Cd}_{0.2}\text{Te}$ from the magnetic field dependence of the longitudinal resistivity in the extreme quantum limit, **Journal of Applied Physics** **70**, 1467 (1991).
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