

Resume of Prof. P. V. Satyam

Prof. P. V. Satyam

Professor (Physics)

School of Basic Sciences

(Head of School, School of Minerals, Metallurgical and Materials Engineering)

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(On lien from Institute of Physics, Bhubaneswar)

Academic Qualification (Undergraduate Onwards)

1	M.Sc.	1988	Physics	University of Hyderabad, Hyderabad
2	Diploma	1989	Advanced Physics	Institute of Physics (IOP), Bhubaneswar
3	Ph.D.	1997	Physics	Utkal University (IOP) Bhubaneswar

Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Title: X-ray standing wave and ion scattering studies of metal/semiconductor interfaces and epitaxial layers

Guide's Name: Prof. Bhupendra Nath Dev

Institution/Organization/University: Institute of Physics (Dept. of Atomic Energy) awarded by Utkal University, Bhubaneswar, Odisha

Year of Award: Submitted 1996 and Awarded 1997

10. Work experience (in chronological order).

S.No	Position Held	Name of the Institution	From	To
1	Head of School	School of Minerals, Metallurgical and Materials Engineering, IIT Bhubaneswar, Argul, Khorda	01 March 2020	Continue..
1	Professor (in Physics)	School of Basic Sciences, IIT Bhubaneswar	19 Feb 2020 (* on lien from IOP)	Continue...
2	Professor	Institute of Physics (IOP) Bhubaneswar	01 July 2014	18 Feb 2020 *
3	Associate Professor	IOP Bhubaneswar	01 Jan 2009	30 Jun 2014
4	Guest Scientist	University of Bremen, Germany	June 2010	May 2011

5	Assistant Professor	IOP Bhubaneswar	Feb 2003	Dec 2008
6	JSPS Visiting Fellow	Nagoya University Nagoya, Japan	May 2004	July 2004
7	Visiting Scientist	Argonne National Lab. Argonne, USA	July 2001	September 2001
8	Senior Lecturer	IOP Bhubaneswar	Feb 1999	January 2003
9	Post-Doctoral Fellow	Argonne National Lab. Argonne, USA	April 1996	January 1999

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of the Award	Awarding Agency	Year
1	Executive Member of CAPSM The Committee of Asia-Pacific Societies for Microscopy	Elected from various Asia Pacific Country representative societies, during the General Body Meeting (held once in four years)	2020 (elected) for period of 8 years, starting from Jan 2021
2	President, Electron Microscope Society of India (EMSI)	Elected during the Annual General Body Meeting of EMSI in 2017	2017 - 2020
3	MRSI Medal (Materials Research Society of India)	MRSI –Executive committee	2017
4	Fellow Andhra Pradesh Akademy of Sciences (F- APAS)	Andhra Pradesh Akademy of Science (APAS) (AP, India)	2016
5	Fellow of Electron Microscope Society of India (E-EMSI)	EMSI – Executive Committee	2015
6	Vice President, EMSI	EMSI – AGBM/President	2015-2017
7	General Secretary, EMSI	EMSI – AGBM/President	2011-2013
8	Guest Scientist	University of Bremen, Germany	2010-2011
9	Guest Editor	Applied Surface Science (2003) (Elsevier); Microscopy and Microanalysis (Cambridge University Press) (2018)	
10	Member of the Advisory Board of the Transactions of the Indian Ceramic Society	Indian Ceramic Society	2018 - Continue
11	Adjunct Faculty	IIT Bhubaneswar, Argul	2016 - 2018
12	Invitation Fellow	JSPS Fellowship – Postdoctoral	2004
13	Young Scientist	International Union Crystallography, Germany	1992
14	Young Scientist Colloquium Speaker	Saha Institute of Nuclear Physics, Kolkata, India	1995
15	Visiting Scientist	Argonne National Laboratory, USA National Taiwan University, Taiwan	2002

16	Member of Board of Studies, GITAM University	Gitam University, Visakhapatnam, AP	2018 - Continue
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12. Publications (List of papers published in SCI Journals, in year wise descending order).

Summary of citations based on Google Scholar:

Number of Publications in refereed journals: 176

Citation Indices	All	Since 2015
Citations	3518	1365
h-index	32	20
I10-index	78	36

S.No	Author(s)	Title	Name of Journal	Vol.	Page	Year
1	P. Guha, B. Mohanty, R. Thapa, R. Kadam, P. V. Satyam , B. K. Jena	Defects Engineered MoO ₂ Nanostructures as an Efficient Electro-catalyst for Oxygen Evolution Reaction	ACS Applied Energy Materials		Accepted (in Press)	2020
1	Paramita Maiti, Ranveer Singh, B Sundaravel, Arijit Mitra, P V Satyam	Tuning the structural, optical, local work function and field emission properties of molybdenum oxide thin films with oxygen partial pressures	J. Appl. Physics	127	025301	2020
2	Paramita Maiti, Arijit Mitra, RR Juluri, Ashutosh Rath, P V Satyam	Growth of Molybdenum Trioxide Nanoribbons on Oriented Ag and Au Nanostructures: A Scanning Electron Microscopy (SEM) Study	Micro- scopy and Micro- analysis	25	1449	2019
3	T Arun, Suresh K Verma, Pritam Kumar Panda, R Justin Joseyphus, Ealisha Jha, Ali Akbari- Fakhrabadi, Pranesh Sengupta, DK Ray, VS Benitha, K Jeyasubramanyan, P V Satyam	Facile synthesized novel hybrid graphene oxide/cobalt ferrite magnetic nanoparticles based surface coating material inhibit bacterial secretion pathway for antibacterial effect	Materials Science and Engg. C	104	109932	2019
4	S Maidul Haque, Rajnarayan De, Arijit Mitra, JS Misal, C Prathap, P V Satyam , K Divakar Rao	Demonstration of tunable Ag morphology from nanocolumns to discrete nanoislands using novel angle constrained glancing angle EB evaporation technique	Surface and Coatings Technolo gy	375	363	2019

5	Gouranga Manna, Milan K Sanyal, Abhisakh Sarma, Puspendu Guha, P V Satyam	Confinement Induced Growth of Gold Nano-Crystals in Hybrid Hierarchical Polymer Nanowire	The Journal of Physical Chem. C	123	20649	2019
6	P Maiti, P Guha, R Singh, JK Dash, P V Satyam	Optical band gap, local work function and field emission properties of MBE grown β -MoO ₃ nanoribbons	Applied Surface Science	476	691	2019
7	P Maiti, P Guha, H Hussain, R Singh, C Nicklin, P V Satyam	Microscopy and spectroscopy study of nanostructural phase transformation from β -MoO ₃ to Mo under UHV-MBE conditions	Surface Science	682	64	2019
8	A. Sarma, A Dippel, O Gutowski, M Etter, M Lippmann, O Seeck, G Manna, Milan K Sanyal, Thomas F Keller, S Kulkarni, P Guha, P V Satyam , M V Zimmermann	Electrodeposition of nanowires of a high copper content thiourea precursor of copper sulfide	RSC Advances	55	31900	2018
9	R R Julurim, R. Sathyavathi, S. Vadavalli, P V Satyam	Morphology Effect on SERS Activity of Embedded Silver Nanostructures	Physica Status Solidi A	215	1800533	2018
10	Vallabha Rao Rikka, Sumit Ranjan Sahu, Abhijit Chatterjee, P V Satyam , Raju Prakash, MS Ramachandra Rao, R Gopalan, G Sundararajan	In situ/ex situ investigations on the formation of the mosaic solid electrolyte interface layer on graphite anode for lithium-ion batteries	The Journal of Physical Chemistry C	122	28717	2018
11	Puspendu Guha, Arnab Ghosh, Arijit Sarkar, Suman Mandal, Samit K Ray, Dipak K Goswami, P V Satyam	P-type β -MoO ₂ nanostructures on n-Si by hydrogenation process: synthesis and application towards self-biased UV-visible photodetection	Nanotechnology	30	035204	2018
12	Lucky Krishnia, B S Yadav, U Palnitkar, P V Satyam, B K Gupta, N A Koratkar, P K Tyagi	As-pyrolyzed sugarcane bagasse possessing exotic field emission properties	Applied Surface Science	443	184	2018
13	K. Nagarajappa, P. Guha, T. Arun, P V Satyam, U M Bhatta	Low-energy ion beam synthesis of Ag endotaxial nanostructures in silicon	Applied Physics A	124	402	2018

14	R Halder Banerjee, P Sengupta, A Chatterjee, SC Mishra, A Bhukta, PV Satyam, I Samajdar, GK Dey	Understanding self ion damage in FCC Ni-Cr-Fe based alloy using X-ray diffraction techniques	Journal of Nuclear Materials	501	82	2018
15	S K Jha, R Kumari, S Choudhary, P Guha, PV Satyam, B S Yadav, Z Naqvi, SS Kushvaha, RK Ratnesh, MS Mehata, A Jain, A K Panwar, F Singh, P K Tyagi	Facile Synthesis of Semiconducting Ultrathin Layer of Molybdenum Disulfide	Journal of nano science and nano technology	18	614	2018
16	A. Bhukta, T. Bagarti, P. Guha, S. Ravulapalli, B. Satpati, B. Rakshit, P. Maiti, P. V. Satyam	Study of Ag induced bimetallic (Au–Ag) nanowires on silicon (5 5 12) surfaces: Experiment and theoretical aspects	Surface Science	664	29	2017
17	S Kamila, B Mohanty, A K Samantara, P Guha, A Ghosh, Bijayalaxmi Jena, P V Satyam, BK Mishra, B K Jena	Highly active 2D layered MoS 2-rGO hybrids for energy conversion and storage applications	Scientific Reports (Nature Group)	7	8378	2017
18	A. Bhukta, P. Guh, B. Satpati, P. Maiti, P. V. Satyam	Growth of large aspect ratio AuAg bimetallic nanowires on Si(110) substrate	Applied Surface Science	407	337	2017
19	T. Arun, S. S. Ram, B. Karthikeyan, P. Ranjith, D. K. Ray, B. Rout, J.B.M. Krishna, P. Sengupta, P. V. Satyam	Ion beam radiation effects on natural halite crystals	Nuclear Instruments and Methods in Physics Research Section B	409	216	2017
20	P. Guha, A. Ghosh, R. Thapa, E. Kumar, S. Kirishwaran, R. Singh, P.V. Satyam	Ag nanoparticle decorated molybdenum oxide structures: growth, characterization, DFT studies and their application to enhanced field emission	Nanotechnology	28	415602	2017
21	R. Kumari, A. Singh, B. S Yadav, D. R. Mohapatra, A. Ghosh, P. Guha, P V Satyam, M. K.Singh, P. K Tyagi	Filled-carbon nanotubes: 1 D nanomagnets possessing uniaxial magnetization axis and reversal magnetization switching	Carbon	119	464	2017

22	P. Guha, R. R. Juluri and P. V. Satyam	Ion beam induced endotaxial silver nanostructures in silicon	Nucl. Instr and Meth. in Physics Research section B	409	209	2017
23	SS Sarangi, PV Satyam, SK Nayak, SD Mahanti	Molecular dynamics simulation studies of gold nano-cluster on silicon (001) surface	Indian Journal of Physics	91	853	2017
24	T Arun, DK Ray, VP Gupta, SS Panda, PK Sahoo, Jaydip Ghosh, Pranesh Sengupta, PV Satyam	Surface protection coating material for controlling the decay of major construction stone	AIP Conf. Proceed.	1832	080017	2017
25	S Pal, Mihir Sahoo, V T Veettil, K K Tadi, A Ghosh, PV Satyam, Ravi K Biroju, P M Ajayan, Saroj K Nayak, TN Narayanan	Covalently connected carbon nanotubes as electrocatalysts for hydrogen evolution reaction through band engineering	ACS Catalysis	7	2676	2017
26	P Mukhi, SS Mohapatra, M Bhattacharjee, KK Ray, TS Muraleedharan, A Arun, R Sathyavathi, RR Juluri, PV Satyam, A K Panda, A Biswas, S Nayak, S Bojja, S Pratihar, Sujit Roy	Mercury based drug in ancient India: The red sulfide of mercury in nanoscale	Journal of Ayurveda and integrative medicine	8	93	2017
27	A Bhukta, A Ghosh, P Guha, P Maiti, B Satpati, P V Satyam	Effect of Au thickness on AuAg bimetallic growth on reconstructed Si (5 5 12) surfaces	Applied Physics A	123	174	2017
28	P Guha, RR Juluri, A Bhukta, A Ghosh, S Maiti, A Bhattacharyya, V Srihari, PV Satyam	In situ synchrotron X-ray diffraction study of coherently embedded silver nanostructure growth in silicon	Cryst. Engg. Comm.	19	6811	2017
29	A Ghosh, P Guha, S Mukherjee, R Bar, S K Ray, P V Satyam	Growth of Au capped GeO ₂ nanowires for visible-light photodetection	Applied Physics Letters	109	123015	2016
30	Jaishri Sanwal, Nilesh L Dudwadkar, Arun Thirumurugan, Subhash C Tripathi, PM Gandhi, PV Satyam, Pranesh Sengupta	Adsorption of Ru, Ce and Eu radionuclides within naturally precipitated polycrystalline calcium carbonate under acidic environment	Journal of Radioanalytical and Nuclear Chemistry	309	751	2016

31	P K Tyagi, R Kumari, U M Bhatta, RR Juluri, A Rath, S Kumar, PV Satyam, S K Gautam, F Singh	Potential application of carbon nanotube core as nanocontainer and nano reactor for the encapsulated nanomaterial	Nucl. Instr and Meth. in Physics Research section B	379	181	2016
32	S Sanyasi, R K Majhi, S Kumar, M Mishra, A Ghosh, M Suar, PV Satyam, H Mohapatra, Chandan Goswami, Luna Goswami	Polysaccharide-capped silver Nanoparticles inhibit biofilm formation and eliminate multi-drug-resistant bacteria by disrupting bacterial cytoskeleton with reduced cytotoxicity towards mammalian cells	Scientific reports (NPG)	6	24929	2016
33	Anjan Bhukta, Puspendu Guha, Arnab Ghosh, Paramita Maiti, PV Satyam	Growth of Ag nanostructures on high-index Si (5 5 12) surfaces under UHV conditions: effect of prior surface treatment before deposition	Applied Physics A	122	356	2016
34	A Ghosh, P Guha, R Thapa, S Selvaraj, M Kumar, B Rakshit, T Dash, R. Bar, S. K.Ray and P. V. Satyam	Tuning the work function of randomly oriented ZnO nanostructures by capping with faceted Au nanostructure and oxygen defects: enhanced field emission experiments and DFT studies,	Nanotechnology	27	125701	2016
35	H.K. Singh, R.K. Kotnala, R. R. Juluri, U. M. Bhatta, P. V. Satyam, Brajesh S. Yadav, Zainab Naqvi and Pawan K. Tyagi	Fe ₃ C-filled carbon nanotubes: permanent cylindrical nano magnets possessing exotic magnetic properties,	Nanoscale	8	4299	2016
36	A Singha, R Kumaria, V Kumar, L Krishnia, Z Naqvi, A K. Panwar, U M. Bhatta, A Ghosh, P.V. Satyam, P. K. Tyagi	Electron irradiation induced buckling, morphological transformation, and inverse Ostwald ripening in nanorod filled inside carbon nanotube	Applied Surface Science	360	1003	2016
37	R. R. Juluri, A. Ghosh, A. Bhukta, R. Sathyavathi, P.V. Satyam	Silver endotaxy in silicon under various ambient conditions and their use as surface enhanced Raman spectroscopy substrates	Thin Solid Films	586	88	2016
38	R. Bar, R. Aluguri, S. Manna, A. Ghosh, P.	Multilayer Ge nanocrystals embedded within Al ₂ O ₃ matrix for high	Applied Physics Letters	107	093102	2015

	V. Satyam and S. K. Ray	performance floating gate memory devices				
39	A. Ghosh, P Guha, A. K. Samantara, B. K. Jena, R. Bar, S. K. Ray and P. V. Satyam	Simple growth of faceted Au-ZnO hetero-nanostructures on silicon substrates (Nanowires and Triangular Nanoflakes): A shape and defect driven enhanced photocatalytic performance under visible light	ACS Applied Materials & Interfaces	7	9486	2015
40	A. Rath, J. K. Dash, R. R. Juluri, and P. V. Satyam	Morphological variations in AuSiy nanostructures under variable pressure and annealing conditions	Applied Physics A	118	1079	2015
41	A. Ghosh, R.R. Juluri, P. Guha, R. Sathyavathi, A. Dash, B. K. Jena, P. V. Satyam	Study of faceted Au nanoparticle capped ZnO nanowires: antireflection, surface enhanced Raman spectroscopy and photoluminescence aspects	Journal of Physics D: Applied Physics	48	055303	2015
42	P. Kumar, D. K. Avasthi, J. Ghatak, P. V. Satyam, R. Prakash, A. Kumar	Nano tracks in fullerene film by dense electronic excitations	Applied Surface Science	33	102	2014
43	A. Rath, R. R. Juluri and P. V. Satyam	Real time nanoscale structural evaluation of gold structures on Si (100) surface using in-situ transmission electron microscopy	J. Appl. Phys	115	184303	2014
44	R R Juluri , A Rath , A. Ghosh , A. Bhukta , R.Sathyavathi, D. Narayana Rao, K. Mueller , K. Frank, M. Schowalter, T. Grieb , F. Krause , A. Rosenauer, P. V. Satyam	Coherently Embedded Ag Nanostructures in Si: 3D Imaging and their application to SERS	Scientific Reports	4	4633	2014
45	A. Rath, J. K. dash, R. R. Juluri, A. Ghosh and P. V. Satyam	A Study of initial stages of growth of Au-assisted epitaxial Ge nanowires on clean Ge(100) Surface	Cryst. Engg. Comm.	16	2486	2014
46	P. S Raman, KGM Nair, Jay Ghatak, U M. Bhatta, PV Satyam,	Formation of embedded indium nitride and indium oxide nanoclusters in silica samples sequentially implanted with indium and nitrogen ions,	Journal of Experimental Nano Science	8	957	2012

	Kalavathi, S; Panigrahi, BK; Ravichandran, V					
47	Adam J. Simbeck, Deyang Gu, Neerav Kharche, P. V. Satyam, Phaedon Avouris, and Saroj K. Nayak	Electronic structure of oxygen-functionalized armchair graphene nanoribbon	Phys. Rev. B	88	035413	2013
48	R. R. Juluri , A. Rath , A. Ghosh , and P. V. Satyam	Substrate Symmetry Driven Endotaxial Silver Nanostructures by Chemical Vapor Deposition	J. Phys. Chem.	C117	13247	2013
49	J.C. Mahato, Debolina Das, Anupam Roy, R. Batabyal, R.R. Juluri, P.V. Satyam, B.N. Dev	Uniformity of epitaxial nanostructures of CoSi ₂ via defect control of the Si (111) surface,	Thin Solid Films	534	296	2013
50	R. Biswal, D. Behera, D. Kanjilal, P. V. Satyam, N. C. Mishra	Evolution of superconducting and normal state properties of YBa ₂ Cu ₃ O _{7-γ} thick films under 200MeV Ag ion irradiation	Physica C: Supercon ductivity	480	98	2012
51	J. K. dash, A. Rath, R. R. Juluri and P. V. Satyam	Shape evolution of MBE grown Si _{1-x} Ge _x structures on high index Si(5 5 12) surfaces: A temperature dependent study.	J. Phys. D: Appl. Phys	45	455303	2012
52	J. K. dash, T Bagarti, A. Rath, R. R. Juluri and P. V. Satyam	Universality in Shape Evolution of Si _{1-x} Ge _x Structures on High Index Silicon Surfaces	Euro Physics Letters	99	66004	2012
53	Thorsten Mehrstens, Stephanie Bley, P V Satyam, Andreas Rosenauer	Optimization of the preparation of GaN-based specimens with low-energy ion milling	Micron	43	902	2012
54	J. C. Mahato, D. Das, R. R. Juluri, R. Batabyal, A. Roy, P. V. Satyam, B. N. Dev	Nanodot to nanowire: A strain-driven shape transition in self-organized endotaxial CoSi ₂ on Si (100)	Applied Physics Letters	100	263117	2012
55	B Sundaravel, S Kalavathi, P SanthanaRaman, PV Satyam, KGM Nair	Formation of NiSi nanoclusters by Ni ion implantation into Si (100) and the effect of pre- injection of Si ions,	AIP Conf. Proceedin gs	1447	285	2012
56	A.Rath, J.K.Dash, R. R. Juluri, M. Schowalter, K. Mueller, A. Rosenauer and P.V. Satyam	Nano scale phase separation in Au-Ge system on ultra clean Si(100) surfaces.	J. Appl. Phys	111	104319	2012

57	A. Rath, J. K. Dash, R. R. Juluri, A. Rosenauer, Marcos Schoewalter and P.V. Satyam	Growth of Oriented Au Nanostructures: Role of Oxide at the Interface	J. Appl. Phys.	111	064322	2012
58	P. Santhana Raman, K.G.M. Nair, M. Kamruddin, A.K. Tyagi, A. Rath, P.V. Satyam, B.K. Panigrahi and V. Ravichandran	MeV Au ²⁺ ions induced surface patterning in silica	Applied Surface Science	258	4156	2011
59	J. Xiao, A. Kuc, S. Pokhrel, M. Schowalter, P. V. Satyam , A. Rosenauer, T. Frauenheim, L. Mädler, L. G. M. Pettersson, T. Heine	Doped Nanoparticles: Evidence for Fe ²⁺ in Wurtzite Coordination: Iron Doping Stabilizes ZnO Nanoparticles	Small	7	2879	2011
60	Rosenauer, T.Mehrtensa, Muller, Gries, M. Schowalter, P. V. Satyam, S. Bley, C. Tessarek, D. Hommel, K. Sebald, M. Seyfried, J. Gutowski, A. Avramescu, K. Engl and S. Lutgen	Composition mapping in InGaN by scanning transmission electron microscopy,	Ultramicroscopy	111	1316	2011
61	Umananda M Bhatta, Deepa Khuslani and P V Satyam	Thermal stability of gold-PS nanocomposites thin	Bulletin of Materials Science	34	595	2011
62	J. K. Dash, A. Rath, R. R. Juluri, P Santhana Raman, K. Muller, A. Rosenauer and P.V. Satyam	DC heating induced shape transformation of Ge structures on ultra clean Si (5 5 12) surfaces	Journal of Physics: Condens. Matter	23	135002	2011
63	A. Rath, J. K. Dash, R. R. Juluri, A. Rosenauer and P.V. Satyam	Temperature dependent electron microscopy study of Au thin films on Si(100) with and without native oxide layer as barrier at the interface	J. Physics D: Applied Physics	44	115301	2011
64	P. S. Raman, KGM. Nair, A. Rath, P.V. Satyam, B.K. Panigrahi and V. Ravichandran	Oxidation of Ion Beam Synthesised Embedded indium Nanoclusters in Silica	Eur. Phys. J.:Applied Physics	53	30403	2011

65	Rosenauer, T. Mehrtens, K. Muller, K. Gries, M. Schowalter, S. Bley, P. V. Satyam, A. Avramescu, K. Engl, and S. Lutgen	2D-composition imaging in InGaN without electron beam induced clustering of Indium by STEM HAADF Z- contrast imaging	Journal of Physics (Conferen ce Series)	326	012040	2011
66	J. K. Dash, A. Rath, R. R. Juluri, P. Santhana Raman, K. Muller, M. Schowalter, R. Imlau, A. Rosenauer and P. V. Satyam	Shape transformation of Si _{1-x} Ge _x structures on ultra clean Si (5 5 7) and Si (5 5 12) surfaces,	Journal of Physics: Conferen ce Series	326	012021	2011
67	P Mallick, H Rath, J K Dash, R Biswal, D C Agarwal, D Behera, D K Avasthi, D Kanjilal, P V Satyam and N C Mishra	Observation of grain growth in swift heavy ion irradiated NiO thin films	Indian Journal of Physics	84	1399	2010
68	P Dash, P Mallick, H Rath, B N Dash, A Tripathi, J Prakash, D K Avasthi, P V Satyam and N C Mishra	Surface modifications of ultra-thin gold films by swift heavy ion irradiation	Indian Journal of Physics	84	1391	2010
69	Mallick P , Biswal R, Rath C, Agarwal DC, Tripathi A, Avasthi DK, Kanjilal D, P V Satyam, Mishra NC	Grain growth and crack formation in NiO thin films by swift heavy ion irradiation	Nucl. Instrum. Method. B	268	470	2010
70	Raman PS, Nair KGM, Ghatak J, Bhatta UM, PV Satyam, Kalavathi S, Panigrahi BK, Ravichandran V	Stability of Embedded Indium Nanoclusters in Silica Under Thermal Treatment and Ion Irradiation	J. of Nanoscie nce and Nanotech nology	10	755	2010
71	J. Ghatak, D. Kabiraj, and P. V. Satyam	MeV ion induced modifications at Co/Si interface	Appl. Surf. Science	256	572	2009
72	Biswajit Saha, Manjula Sharma, Abhisakh Sarma, Ashutosh Rath, P.V. Satyam, Purushottam Chakraborty, Milan K. Sanyal	Surface and interfacial structural characterization of MBE grown Si/Ge multilayers	Appl. Surf. Science	256	547	2009
73	Umananda M Bhatta, J. K. Dash, A. Rath, and P. V. Satyam	Structural phase transitions in Au thin films on Si(110): An in-situ temperature dependent transmission electron microscopy study	Appl. Surf. Science	256	567	2009

74	P. Mallick, Chandana Rath, S. Majumde, R. Biswal, D.C. Agarwal, Shikha Varma, D.K. Avasthi, P.V. Satyam, and N.C. Mishra	Evolution of surface morphology of NiO thin films under swift heavy ion irradiation	Appl. Surf. Science	256	521	2009
75	K. Bhattacharjee, Anupam Roy, Jay Ghatak, P.V. Satyam, B.N. Dev	Ultrasmall Ge islands with low diameter-to-height aspect ratio on Si(100)-(2×1) surfaces	Appl. Surf. Science	256	356	2009
76	P. Dash, P. Mallick, H. Rath, A. Tripathi, Jai Prakash, D.K. Avasthi, S. Mazumder, S. Varma, P.V. Satyam and N.C. Mishra	Surface roughness and power spectral density study of SHI irradiated ultra-thin gold films	Appl. Surf. Science	256	558	2009
77	Umananda M Bhatta, A. Rath, J. K. Dash, and P. V. Satyam	Oxide mediated liquid - solid growth of high aspect ratio – aligned gold silicide microrods on Si (110) substrates	Nanotechnology	20	465601	2009
78	T. Emoto, J. Ghatak, P. V. Satyam and K. Akimoto	Strain evolution in Si substrate due to implantation of MeV ions observed by extremely asymmetric x-ray diffraction,	J. Appl. Phys.	106	043516	2009
79	Padmakar G. Chavan, Sandip S. Patil, Mahendra A. More, Shashwati Sen, Madhvi Sharma, K.P. Muthe, Umananda M. Bhatta, P.V. Satyam, Dilip S. Joag	Field emission studies of Te nanorods grown on Si (111) substrate	Vacuum	83	1307	2009
80	Umananda M. Bhatta, J. Ghatak, M. Mukhopadhyay, Jin Wang, Suresh Narayan and P. V. Satyam	Synchrotron X-ray induced damage in polymer (PS) thin films	Nucl. Instrum. Meth. In Phys. Res. B	267	1807	2009
81	UmanandaM Bhatta, J K Dash, Anupam Roy, A Rath and P V Satyam	Formation of aligned nanosilicide structures in MBE grown Au/Si(110) system: A real time temperature dependent TEM study	J. Phys.: Condens. Matter	21	205403	2009
82	S Nigam, V Sudarsan, R K Vatsa, J Ghatak and P V Satyam	Improved energy transfer between Ce ³⁺ and Tb ³⁺ ions at the interface between Y ₂ Sn ₂ O ₇ :Ce ³⁺ ,	J. of Physical Chemistry C	113	8750	2009

		Tb ³⁺ nanoparticles and silica				
83	H. Rath , P. Dash , T. Som, P. V. Satyam , U.P. Singh , P.K. Kulriya , D. Kanjilal, Devesh Avasthi	Structural evolution of TiO ₂ nano crystalline thin films by thermal annealing and swift heavy ion irradiation	J. Appl. Phys.	105	074311	2009
84	Shashwati Sen, Madhvi Sharma, Vivek Kumar, K.P. Muthe, P.V. Satyam, Umananda M. Bhatta, M. Roy, N.K. Gaur, S.K. Gupta, and J.V. Yakhmi	Chlorine gas sensors using one-dimensional tellurium nanostructures	Talanta	77	1567	2009
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104	S. Prathap Chandran, R. Pasricha, M. Umananda Bhatta, P.V.Satyam, M. Sastry	Synthesis of gold nanorods in organic media	J. of Nanosci. and Nanotechnology	7	2808	2007
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