


CCS UNIVERSITY, MEERUT

FACULTY PROFILE

Name	Dr. Yogendra Kumar Gautam				
Qualifications	Ph.D. (Material Science)				
Designation	Assitant Professor				
Department	Physics				
Address (campus)	Department of Physics, Chaudhary Charan Singh University (C.C.S.U.), Campus Meerut – 250 004 (India)				
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Educational Qualifications

Degree	Institution / University	Year	Div.	Subjects
Ph.D.	Indian Institute of Technology (IIT) Roorkee, India	2013		Thesis title "Experimental Investigation of Hydrogen Effect on Selected Nanostructured Coatings"
M.Tech.	Indian Institute of Technology (IIT) Delhi, India	2007	First	Project title "The Study of Dielectric Properties of Polymer Composite"
M.Sc.	Chaudhary Charan Singh University (CCSU), Campus Meerut, U.P. India	2004	First	Physics (Electronics)
B.Sc.	Chaudhary Charan Singh University (CCSU), Meerut, U.P., India	2002	First	Physics, Chemistry, Mathematics

Research Interests/Specialization

Nanomaterial and thin films for hydrogen storage, sensors, smart windows and solar cell applications/ Material Science

Post doctoral Research Experience

Organization/Institution	Designation	Duration	Responsibilities
Indian Institute of Technology (IIT) Roorkee, India	Research Associate	01/02/2013 to 31/05/2013	Research
Indian Institute of Technology (IIT) Roorkee, India	Project Fellow	01/06/2013 to 02/07/2013	Research

Teaching Experience

Organization/Institution	Designation	Duration	Responsibilities
Jaypee University of Engineering & Technology (JUET), Raghogarh, Guna, Madhya Pradesh (India)	Assistant Professor	03/07/2013 to 28/02/2015	Teaching and Research
Chaudhary Charan Singh University (CCSU), Campus Meerut, U.P. (INDIA)	Assistant Professor	02/03/2015 to present	Teaching and Research

Research Supervision

	Year	Awarded	Submitted	Working
Ph.D.	.....	.....	.....	.....
M. Phil	2015	.....	.....	03

Publications in Indexed / Peer Reviewed Journals

Sl. No.	Year	Title	Journal	Vol.	ISSN No.	Page No.	Author/Co-Authors	Impact Factor
1	2015	A room temperature hydrogen sensor based on Pd-Mg alloy and multilayers prepared by magnetron sputtering	International Journal of Hydrogen Energy	.....	.....	(Accepted)	Yogendra K. Gautam, Amit sanger, Kumar, and Ramesh Chandra	3.313
2	2015	Fast and reversible hydrogen sensing properties of Pd/Mg thin film modified by hydrophobic porous silicon substrate	Journal of Sensors and Actuators B	213	0925-4005	252-260	Amit sanger, Aswani Kumar, Samta Chuhan, Yogendra K. Gautam and Ramesh Chandra	4.097
3	2013	Hydrogenation and dehydrogenation of Pd/Mg/Pd tri-layers prepared by magnetron sputtering	Journal of Surface & Coatings Technology	237	0257-8972	450-455	Yogendra K. Gautam, Mukesh Kumar and Ramesh Chandra.	1.998
4	2013	Studies on hydrogen sensing properties of nanostructured Pd and Pd/Mg thin films prepared by Pulsed laser deposition	Journal of Sensors and Actuators B	176	0925-4005	453-459	Yogendra K. Gautam, Ravish Jain, Sunil K. Tanwar, R. D. Agrawal and Ramesh Chandra	4.097
5	2013	A study on structural, optical and hydrophobic properties of sputter deposited HfO ₂ films	Journal of Applied surface science	283	0169-4332	332-338	Ravish K. Jain, Yogendra K. Gautam, Vikramaditya Dave Amit K. Chawla, R. Chandra	2.711
6	2012	Hydrogen absorption and optical properties of Pd/Mg thin films prepared by DC magnetron sputtering	International Journal of Hydrogen Energy	37	0360-3199	3772-3778	Yogendra K. Gautam, Amit. K. Chawla, Saif A. Khan, R.D. Agrawal, R.Chandra	3.313
7	2012	A comprehensive study of structural and magnetic properties of sputter deposited nickel-silica thin films	Materials Science & Engineering B	177 (13)	0921-5107	1073-1079	Rajan Walia, J.C. Pivin, A.K. Chawla, R. Jayaganthan, Y. K. Gautam, R.Chandra	2.169
8	2011	Hydrogenation of Pd-capped Mg thin films prepared by DC magnetron sputtering	Journal of Applied surface science	257	0169-4332	6291-6295	Yogendra K. Gautam, Amit.K. Chawla, Rajan. Walia, R.D. Agrawal, R.Chandra	2.711
9	2011	Influence of sputtering gas on morphological and optical properties of magnesium films	Journal of Materials science and Technology	27 (1)	10050302	51-58	Yogendra K. Gautam, Amit K. Chawla, Vipin Chawla, R. D. Agrawal and R.Chandra	1.909

Publication in Conference Proceeding

Sl. No.	Year	Theme of Conference	Venue	Title of Publication	ISBN	Page No.	Co-author
1	2013	Optoelectronic Materials and Thin Films: OMTAT-2013	Cochin University of Science and Technology Kochi, India	Thickness dependent structural, optical and electrical properties of $\text{CuIn}_{0.8}\text{Ga}_{0.2}\text{Se}_2$ thin films deposited by PLD	1576 (1)	33-37	Pradeep K. Mishra, Yogendra K. Gautam , Ashwani Kumar, Ravish K. Jain, Jagat N.Prasad, A.K.Choudhary and R. Chandra
2	2013	Optoelectronic Materials and Thin Films: OMTAT-2013	Cochin University of Science and Technology Kochi, India	Study on Structural, Optical and Wetttable Properties of CeO_2 Thin Films Deposited by Reactive DC Magnetron Sputtering	1576 (1)	155-158	Ravish K. Jain, Gurjinder Kaur, Samta Chauhan, Yogendra K. Gautam and Ramesh Chandra
3	2013	Optoelectronic Materials and Thin Films: OMTAT-2013	Cochin University of Science and Technology Kochi, India	Structural and thermal properties of CuO nanoparticale by magnetron sputtering	1576 (1)	190-193	Monu Verma, V.K.Gupta, Yogendra K. Gautam , Ramesh Chandra
4	2013	International Conference on Energy Efficient Technologies for Sustainability (ICEETS 2013) (Journal Advanced Material Research)	St. Xavier's Catholic College of Engineering Chunkankada, Nagercoil, Tamilnadu, India.	Effect of Working Pressure on Structural, Electrical and Optical Properties of CIGS Thin Film Deposited by PLD	1662-8985	70-74	Pradeep Kumar Mishra, Yogendra K. Gautam , J. N. Prasad, A. K. Choudhary, R.Chandra

Symposium / Seminar / Conference / Workshop (Presentation)

Sl. No.	Theme of Conference	Co-author	National/ International	Venue	Time/ Duration	Title
1	International conference on Optoelectronic Materials and Thin films for Advanced Technology (OMTAT- 2013)	Yogendra K. Gautam , Ravish K. Jain, R. D. Agrawal and Ramesh Chandra	International	Cochin University of Science and Technology, Kochi, India	January 3-5, 2013	Hydrogen effect on the structural and magnetic properties of Pd/Nb/Co tri-layer
2	International Conference on Renewable Energy (ICRE-2011)	Yogendra.K. Gautam , A.K. Chawla, R. Walia,Saif, Ali Khan R.D. Agrawal, R.Chandra	International	University of Rajasthan, Jaipur, India	January 17-21, 2011	Hydrogen absorption and optical properties of Pd/Mg thin films prepared by DC magnetron sputtering

3	International Symposium on Metal-Hydrogen Systems" MH-2010	Yogendra K. Gautam, Ramesh Chandra and R.D. Agrawal	International	Moscow State University, Moscow, Russia	July 19-23, 2010	Hydrogen storage, optical and magnetic properties of nano structured Pd and Pd/Mg thin films
4	International Symposium on Hydrogen in Matter (ISOHIM-2009)	Yogendra K. Gautam, Ramesh Chandra and R.D. Agrawal	International	IIT Chennai, India	December 13-16, 2009	Influence of Sputtering parameters and hydrogen on Morphological and Optical Properties of Pd/Mg Films

Symposium / Seminar / Conference / Workshop / Summer School/Orientation Course/ Refresher Course Attended

Sl. No.	Theme	Venue	Duration/Time	National/International
1	Nurturance Programme for Talent Search Awarde	Indian Institute of Technology (IIT) Roorkee, India	December 12-16, 2011	National
2	International Summer School on Materials for the Hydrogen Society	Chernogolovka, Moscow, Russia	July 14 -18 2010	International
3	Chemistry and physics of materials for energetic, A European school in material science (PCAM-2009)	University of Milano Bicocca, Milan, Italy	September, 14-19, 2009	International
4	International Workshop on nanotechnology and Advanced Functional Materials (NTAFM-2009)	National Chemical Laboratory (NCL) Pune, India	July, 9-11, 2009	International
5	Users workshop held at Inter University Accelerator Center (IUAC),Delhi	Inter University Accelerator Center (IUAC),Delhi	July, 6-7, 2008	National
6	A national workshop on "effective teaching and class room management	Indian Institute of Technology (IIT) Roorkee, India	January, 27-28, 2008	National
7	Short term course on "Electron microscopy and their usage for nanotechnology related research work	Indian Institute of Technology (IIT) Roorkee, India	October 3 -10, 2007	National

Projects (Major / Minor)

Title/ Subject of Research Project	Major / Minor	Period	Total Grant/Funds Received(Rs.)	Name of Sponsoring/Funding Agency	Outcome of the Project	Co-PI
FIST Level-1	Major	2010-2015	190.0 Lakhs	DST GoI	on progress	

Honours / Awards/Fellowship

1. Received Financial Assistance from **Institute for energy and technology (IFE), Norway** for presenting research work (28-30th September, 2014).
2. Awarded CSIR Research Associateships (RA) from Council of Scientific & Industrial Research (**CSIR**), **Government of India** (June 2011- May 2013).
3. Awarded Senior Research Fellowship (SRF) from **MHRD, Government of India** in Ph.D Programme (July 2007-May 2011.)
4. Received Financial Assistance from IIT Roorkee heritage fund, IIT Roorkee, India for attending a international school and symposium, MH-2010 "International Symposium on Metal-Hydrogen Systems" **Moscow State University, Moscow, Russia**, (14-23th July, 2010)
5. Received Financial Assistance from **University of Milano-Bicocca, Italy** for attending International school "Chemistry and physics of materials for energetic, A European school in material science" Milano, Italy (14-19 September, 2009)
6. Awarded Institute Fellowship from **MHRD, Gov. of India**, New Delhi in M.Tech Programme (July, 2005- June, 2007)
7. Qualified Graduate Aptitude Test in Engineering (GATE - 2004 & 2005) in Physics

Other Relevant Information

1. About two years experience of course coordinator in department of Physics Jaypee University of Engineering and Technology (JUET), Raghogarh, Guna, Madhya Pradesh (India)
2. Six years experience on development of nanomaterials for hydrogen storage and sensor applications.
3. Six years hands-on experience on synthesis of nanomaterials (thin film/multilayers and nanoparticles) by PVD/CVD techniques, (DC/RF Magnetron Sputtering, Pulse Laser Deposition, Spin Coating and Thermal Evaporation).
4. Six years hands-on experience on characterization instruments such as; High vacuum technology, X-Ray Diffraction, Scanning Probe Microscopy, Field Emission Scanning Electron Microscope, UV-VIS-NIR Spectrophotometer, Electrical measurement and SQUID Magnetometer.