

Curriculum Vitae : Dr. I.D.Sharma

Title	Dr	First Name	Ishwar	Middle Name	Dayal	Last Name	Sharma	Photo
Designation			Assistant Professor					
Address			Department of Physics C C R (PG) College					
Laboratory			Circular Road Muzaffarnagar (India) 251001 National Physical Laboratory, Dr K S Krishnan Marg, New Delhi-110067(India)					
Contact			-----					
Email			idsharma1974@gmail.com					
Details Of Educational Qualifications								
Degree			Institute			Year		
PhD			C C S University Meerut			2013		
PG			C C S University Meerut			1996		
PG Single Subject Specialisation in Spectroscopy			C C S University Meerut			1999		
UG			Meerut University Meerut			1993		
UG(Education)			C C S University Meerut			1994		
CSIR/NET			CSIR, New Delhi			June 2005		

Research Experience:

Completed Ph.D work under the Supervision of Dr S K Sharma(Asst.Prof.) From C C S University Meerut, UP And Dr S K Dhawan(Scientist) National Physical Laboratory, Dr K S Krishnan Marg, New Delhi 110067(India)

Title: Electrical & Optical Properties of Polymeric Substances

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Work Experience:

- Assistant Professor in Department of Physics at C.C.R.(P.G.) College, Muzaffarnagar (U.P.) since 25th March, 2019 to till date.
- Lecturer (Physics) at V S S I/College Aligarh (UP) since 10th Feb 2006 to 24th March, 2019.
- TGT(S/M) at Janta I/C Kalyanpur, Meerut (UP) since 11/07/2001 up to 09/02/2006.

Vision& Mission:

Actively participate in the upliftment programmes of economically weaker section of the society, **Science** popularization programmes and its contribution in the welfare of the society and do the needfull to motivate the students by following different teaching methodologies.Educational institutes are the most effective tools to uplift the weaker section of the society.For fulfilling this dream of mine, I am trying to do my best.I am engaged in research work on **Bismuth Oxyhalides** for **Energy and Photocatalytic Applications** at N P L New Delhi-67 after my teaching hours.

Extra-Curricular Activities:

Confined To National.Service Scheme (NSS)

Actively Participated to got organize Bhartiya Sanskriti Gyan Pariksha 2001, 02, 06.

Jt.Director Aligarh Mandal,Aligarh Issue Certificate for Cent Percent Result of U P Board Intermediate Exam in 2009,2011,2012,2013,2014,2015.Cent Percent Result 2016.Jt.Director Aligarh Mandal,Aligarh Issue Certificate for praise worthy result in 2018.Actively participate in science popularization programmes.Motivate and guide the group of students to participate in National Children's Science Congress(NCSE) at various levels.Guided groups of students projects was selected at **District level & Prestate Level in 2010,2014 & 2016, while the project in 2017 was selected for State Level and Presented at State Level.Certificate of Appreciation Teacher Innovation award 2019,Sri Aurobindo Society(Zero Investment Innovations for Education Initiatives ZIIEI)**

Membership:

Life Member of Indian Association of Physics Teachers

Life Member of Asian Polymer Association

List of Publications:

1. Modification and designing of electrodeposited polyaniline film for potential applications; **I D Sharma**, S K Dhawan, Ritu Srivastav, V K Sharma; AIP Conf.Proc.1393, 109(2011); doi:10.1063/1.3653633
2. Modification and designing of electrodeposited polypyrrole film for optoelectronic applications; **I D Sharma**, V K Sharma, S K Dhawan, P K Saini; Indian Journal of Pure and Applied Physics 50(2012) 184-187.
3. Structural, optical, morphological and electrical characteristics of polyaniline for device applications; **I D Sharma**, S K Dhawan, P K Saini, V K Sharma; (Indian Journal of Eng. and Material Sciences(IJEMS)); Vol.20 April(2013) 145-149.
4. Synthesis of Nanostructured Polyaniline for optoelectronic devices and gas sensing applications; **I D Sharma**, P K Saini, S K Sharma. International Conf.on "Recent Trends in Applied Physics and Material Sciences RAM 2013, Feb 01-02, 2013 at Govt. College of Engineering And Tech. Bikaner (India) and Published in AIP Conf. Proceeding 1536, 745(2013); doi: 10.1063/1.4810442.
5. Synthesis and characterization of dodecylbenzene sulfonic acid doped polyaniline; **I D Sharma**, K N Sood, S K Sharma; International Journal of applied Engineering Research ISSN.0973-4562 Vol.09, No.01(2014) PP 29-34.
6. One Pot Synthesis of Three Bismuth Oxyhalides (BiOCl, BiOBr, BiOI) and Their Photocatalytic Properties in Three Different Exposures Conditions; **I D Sharma**, Gagan Kant Tripathi, Vinod Kumar Sharma, Sandeep Nath Tripathi, Rajnish Kurchania, Chander Kant, Amit Kumar Sharma, and K K Saini; Journal of Cogent Chemistry <http://dx.doi.org/10.1080/23312009.2015.1076371> .

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7. Characterization of the Photocatalytic Activity of bismuth oxychloride Nanostructures;Gagan Kant Tripathi, **I. D. Sharma**, Chander Kant, Ravi Ranjan Pandey, K. K. Saini² and Rajnish Kurchania ; Analytical Letters,49:9,1452-1466,DOI:10.1080/00032719.2015.1104324;<http://dx.doi.org/10.1080/00032719.2015.1104324>.
8. A Simple Route to Synthesize Nanostructures of Bismuth Oxyiodide and Bismuth Oxychloride (BiOI.BiOCl) Composite for Solar Energy Harvesting;
I D Sharma, Chander Kant, A K Sharma, Ravi Ranjan Pandey and K. K. Saini;
Sanjay K. Nayak et al. (eds.) Trends and Applications in Advanced Polymeric Materials, (83–100) 2018 © Scrivener Publishing LLC
9. Advanced Oxidation Processes (AOPs) by Bismuth Oxyhalides For Environmental Remediation Using Solar Energy:Enhancing Material Property Through Synthesis
I D Sharma,Chander Kant, A K Sharma, and K. K. Saini;Journal of **Archives of Organic and Inorganic Chemical Sciences 2(2)-2018,AOICS MS.ID.000131**
10. **Solar Photocatalysis to Address Environmental Issues(Book Chapter)**
I D Sharma; Green Initiative & Sustainable Development 2020,ISBN-978-81-942503-2-6, Learning Media Publication Meerut,370-378

Conferences Attended

1. “Comparative study of polypyrrole and polyaniline”; **I D Sharma**, S K Sharma, S K Dhawan, Parveen Saini, Ritu Srivastava”; National Seminar On Global Changes And Challenges 14-15 March 2010,N R E C College Khurja,Bulandshahar (India).
2. “Synthesis and characterisation of electrodeposited polypyrrole film using KCl as supporting electrolyte”; **I D Sharma**,V K Sharma,S K Dhawan,Ritu Srivastav International Conference On Polymer Science and Engineering Emerging Dimensions(PSE-2010) Nov 26-27,2010 UICET, Punjab Univ. Chandigarh 160014(India).

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3. “Modification and designing of polyaniline for electronic applications”; **I D Sharma**, S K Dhawan, Ritu Srivastav, V K Sharma. International Conference On Multifunctional Materials (ICMM-2010) Dec.7-9,2010 Banaras Hindu Univ.Varanasi(India).
4. “Modification and designing of electrodeposited polyaniline films for potential applications”; **I D Sharma**,S K Dhawan,Ritu Srivastav,V K Sharma. International Conference On Advances In Condensed and Nano Materials (ICACNM-2011)23-26 Feb.2011 Department of Physics Panjab University Chandigarh 160014 (India).
5. “Modification and designing polyaniline films for sensing devices”; **I D Sharma**,S K Dhawan,V K Sharma. APA International Congress on Advances in Human Healthcare Systems(Healthcare India 2012) Feb.20-24,2012 New Delhi(India).
6. “Structural, Optical, Morphological and Electrical Characteristics of polyaniline and polypyrrole for device applications”; **I D Sharma**,V K Sharma,P K Saini,S K Dhawan. International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials(ICWNCN-2012) March 13-16,2012 Department of Physics and Astrophysics,University of Delhi,Delhi110007(India).
7. “International Conference on “Light- Cone Physics:Hadronics and Particle Physics” Dec.10-15, 2012 Department of Physics and Astrophysics,University of Delhi, Delhi110007(India).
8. “International Confernce on Recent Trends in Applied Physics and Material Science (RAM-2013)” Feb.01-02,2013 at Govt.College of Engineering & Technology, Bikaner(Raj.).
9. 3rd National Conf.on Innovations in Indian Science Eng.and Tech.at CSIR-National Physical Lab.& IARI,New Delhi;Feb 25-17,2013.
10. “Effect of Microstructure and crystallite size on photo-absorption properties of Bismuth oxychloride”; **I D Sharma**,Parveen Saini and K K Saini. International

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Conf.on Chemistry: frontiers and Challenges(ICCFC-13) March 02-03, 2013, AMU Aligarh(India).

11. “Tailoring the visible absorption properties of Bismuth oxyhalide Composites by Simple Route”; **I D Sharma**, Saini Parveen, Saini K K. International Symposium on “Science of Clusters, Nanoparticles and Nanoscale Materials (SOCNAM-2013) March, 04-07, 2013. organised by Central Univ. Rajasthan, India and Virginia Commonwealth Univ. USA.
12. “Effect of Microstructure and crystallite size on photo-absorption properties of Bismuth oxyiodide”; **I D Sharma** and K K Saini. National Conf.on Nanoscience & Nanotechnology (Aligarh NANO-3rd), March 15-16, 2013 Z H College of Engineering & Tech, AMU Aligarh (India).
13. “Synthesis and characterization of dodecylbenzene sulfonic acid doped polyaniline”; **I D Sharma**, K N Sood, S K Sharma; 2nd International conference on “Sustainable Innovative Techniques in Civil and Environmental Engineering”(SITCEE-2014) Jan. 04-05, 2014 organized by **Krishi Sanskriti** at JNU New Delhi-110067.
14. “Effect of Ethanol on Band Edge Properties of Bismuth Oxyhalides (BiOX; X= Cl, Br, I) and Photocatalytic Properties”; **Ishwar Dayal Sharma**, Ravi Ranjan Pandey, Chander Kant and Krishan Kumar Saini. Accepted for oral presentation at 62nd AVS International Symposium and Exhibition held on October 18-23, 2015 in San Jose, California USA. Abstract No. 1817.
15. “Study on The Modification of Bismuth Oxychloride for Degradation of Organic Matter Using Solar Energy ;**I D Sharma**, Chander Kant, V. K. Sharma, A K Sharma and K. K. Saini. Accepted for presentation at 2016 MRS Spring Meeting, held from March 28-April 1, 2016 at the Phoenix Convention Center and Sheraton Grand Phoenix Hotel in Phoenix, Arizona.
16. “Effect of Synthetic Parameters on Particle Size of BiOCl and Photoactivity”
I D Sharma^{1,2} Chander Kant¹, A K Sharma¹, Ravi Ranjan Pandey¹ and K. K. Saini¹

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NANOS-2015;Dec.14-17,2015;Gitam University ,Visakhapatnam AP(India)

17. “A Simple Route to Synthesize Nanostructures of Bismuth Oxyiodide and Bismuth Oxychloride (BiOI.BiOCl) Composite for Solar Energy Harvesting”;

I D Sharma, Chander Kant, A K Sharma, Ravi Ranjan Pandey and K. K. Saini

APM CIPET-2016, Feb.12-14,2016;CIPET Ahmedabad.

18. “Synthesis of Bismuth Oxyhalides (BiOX, X =Cl, Br, I) Nanometer Thick Platelets and Their Application in Environmental Remediation”

I. D. Sharma,Ravi RanjanPandey,A.K.Sharma, Chander Kant,V. K.Sharma and K. K. Saini;**ICMST 2016, June 05-08,2016**;St.Thomas College Palai, Kottayam Kerala(India).

19. Modification of Absorption Properties of Bismuth Oxyhalides By Ethanol To Address Environmental Issues; I D Sharma, K K Saini, Chandra Kant; 24th International Conference of International Academy of Physical Sciences(CONIAPS-XXIV) on Innovation In Physical SciencesAug 09-11,2019;C C S University Meerut.

20. Modification of Visible Light Photoactivity of Lead Bismuth Oxyhalides PbBiO₂X(X=Cl,Br) Using Mixture of Ethanol and Distilled Water as Solvent For Hydrogen Fuel;I D Sharma,Chandra Kant and K K Saini;National conference on Replacement of Petrochemicals By Bio-Based Chemicals For Safe Environment,Feb18,2020; C C R (PG) College,Muzaffarnagar(UP)

Workshops Attended

1. Workshop On **Multifunctional Materials**,Dec.6,2010 Department Of Physics Banaras Hindu University Varanasi 221005 (India).
2. Workshop on **Characterization Tools for Materials**,Feb.22,2011 Department of Physics,Panjab University Chandigarh 160014 (India).

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3. **BPS-ANVESHKA** Workshop for **Physics Teachers** conducted by **Prof.H C Verma** of I I T Kanpur and held at Birla public school,Pilani(Rajasthan) Jan. 21-22, 2012.
4. Workshop on **Nanostructured Ceramics and other Nanomaterials**,March 13,2012 Department of Physics and Astrophysics,University of Delhi,Delhi 110007 (India)
5. **National Workshop for Utsahi Physics Teachers (NWUPT-2012)**,IIT Kanpur 27 May-01 June 2012.
6. Workshop on **Amazing Innovative Techniques of Teaching Physics**; Nov.30,2013 at O P Jindal Modern School, Hisar (Haryana).

Short Courses

1. **Short Course on Organic Electronics and Solar Cells**, July 09-14, 2012 Samtel Centre for Display Technologies, IIT Kanpur 208016(India).
2. **NIUS Teacher Development Workshop on Thermal Physics & Statistical Mechanics** Dec.10-13,2019;HBCSE(TIFR) Mumbai
3. **Physics Olympiads Teachers Exposure Camp 2017 on Feb.20- 24,2017** Homi Bhabha Centre For Science Foundation (HBCSE) Mumbai (India)
4. **Astronomy Olympiads Teachers Exposure Camp 2017** from Oct. 31 to Nov. 3,2017 Homi BhabhaCentre For Science Foundation (HBCSE)Mumbai (India)

Online Courses

1. **Learning Physics Through Simple Experiments**;Sept.20,2016 upto Nov.20,2016 (By Dr H C Verma Professor in Physics IITK) Centre For Development of Technical Education,Indian Institute of Technology Kanpur (UP)
2. **Physics of Semiconductors**;Aug 15, 2017 upto Nov 20, 2017 (By Dr H C Verma Professor in Physics IITK) Centre For Development of Technical Education,Indian Institute of Technology Kanpur (India)

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3. **Basics of Special Theory of Relativity**;Dec.18,2018 upto March 08, 2019 (By Professor Dr H C Verma; Centre for Continuing Education,IITK).
4. **Basics of Quantum Mechanics**;Aug.15,2019 upto Nov.18, 2019 (By Professor Dr H C Verma; Centre for Continuing Education,IITK
5. **Advance Course on Special Theory of Relativity**;Jan.26,2020 upto May 19,2020(By Professor Dr H C Verma; Centre for Continuing Education,IITK
6. **Life Skills Level-1, Six Weeks** offered Jointly By The Commonwealth Educational Media Centre For asia(CEMCA)& The University of Hyderabad(UOH);Jan1,2020 upto Feb.13,2020 & got **Competence Certificate With Honor Code**
7. **Life Skills Level-2, Six Weeks** offered Jointly By The Commonwealth Educational Media Centre For asia(CEMCA)& The University of Hyderabad(UOH);Feb.25,2020 upto April.13,2020 & got **Competence Certificate With Honor Code**
8. **Learning Physics Through Simple Experiments;Stay Home And Revise Physics(SHARP)**April2,2020 upto June 10,2020 (By Dr H C Verma Professor in Physics IITK) Centre For Development of Technical Education,Indian Institute of Technology Kanpur (UP)
9. **Using Open Online Educational Resources For Online Learning An Introduction 04 Weeks**,Offered By The Pacific Centre for Flexible and Open Learning for Development (PACFOLD) **and the Commonwealth of Learning (COL) & got Competence Certificate With Honor Code on June 16,2020**
10. **Introduction To Sustainable Development In Business 04 Weeks June 02,2020 upto July 05,2020** and Offered by Open University Mauritius (OUM) and the **Commonwealth of Learning (COL) & got Competence Certificate With Honor Code on July 07,2020**

Guide Teacher National Children's Science Congress(NCSC)

1. Guide Teacher District Level **National Children's Science Congress**,Oct.29-

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- 30 (2003) at C L M I/College Jani,Meerut(UP).
2. **Pre State Level National Children's Science Congress(NCSC)** Nov.14,2010,Ratan Prem D A V Girls I/College Aligarh (UP).
 3. Guide Teacher in **District Level NCSC on 07-11-2014** at R S I/College Aligarh(UP).
 4. Guide Teacher in **Pre State Level National Children's Science Congress on 13-11-2014**at Hindu Inter College Aligarh(UP).
 5. Guide Teacher in **District Level NCSC on 05-11-2016** at R S I/C Aligarh(UP).
 6. Guide Teacher in **Pre State Level National Children's Science Congress on 10-11-2016** at R S Inter College Aligarh(UP).
 7. Guide Teacher in **District Level NCSC on 13-10-2017** at R S I/C Aligarh(UP).
 8. Guide Teacher in **Pre State Level NCSC on 08-11-2017** at Hindu I/C Aligarh(UP).
 9. Guide Teacher in **25th State Level National Children's Science Congress on Nov.11-13,2017** at S P Memorial Institute of Technology,Kaushambi (UP) .

(Dr I D Sharma)
Assistant Professor, Dept. of Physics
C. C. R. (P.G.) College, Muzaffarnagar, (U.P)