

Personal Profile of Daya Shankar Pandey

Date of birth August 04, 1961
Nationality Indian
Address (Mailing) Dr. Daya Shankar Pandey, FASc, FNASc
Professor and Head
Department of Chemistry
Institute of Science
Banaras Hindu University
Varanasi - 221 005 (U.P.), India
Tel. + 91 542 6702480 (Lab.); + 91 9450960400 (Mob.)
E-mail: dspbhu@bhu.ac.in; dsprewa@yahoo.com

Residence New D/2, Tulsidas Colony
Banaras Hindu University
Varanasi - 221 005 (U.P.), India
Tel. + 91 542 2368500 (Res.)

Educational record

Ph. D. 1989, Indian Institute of Technology, Kanpur (Mentor, Prof. U. C. Agarwala, FNA)
M. Sc. 1983, 1st Div., Avadh University, Faizabad (U.P.), India
B. Sc. 1981, 1st Div., Avadh University, Faizabad (U.P.), India
Intermediate 1978, 1st Div., Board of High School and Intermediate Education, Allahabad, Uttar Pradesh, India
High School 1976, 1st Div., Board of High School and Intermediate Education, Allahabad, Uttar Pradesh, India

Positions held

Professor **15.12.2005–Till Date**, Banaras Hindu University, Varanasi, Uttar Pradesh, India
Reader 01.03.1999–14.12.2005, Awadhesh Pratap Singh University, Rewa, Madhya Pradesh, India
Sr. Lecturer 01.03.1995–01.03.1999, Awadhesh Pratap Singh University, Rewa, Madhya Pradesh, India
Lecturer 01.03.1990–01.03.1995, Awadhesh Pratap Singh University, Rewa Madhya Pradesh, India

Visiting Assignments

- i) **24.03.2014–22.05.2014, JSPS Invitation Fellowship (Short Term)**, Japan. Under this programme visited and delivered lectures at:
- Kyushu University, Japan (**April 16-17, 2014**)
 - National Institute of Advanced Industrial Science and Technology, (AIST), Osaka, Japan (Lecture on April 18, 2014; **Host Institute**)
 - Nagoya University, Nagoya, Japan (**April 23-24, 2014**)
 - Osaka University, Osaka, Japan (**April 25, 2014**)
 - Nara Institute of Science & Technology, Nara, Japan (**May 14, 2014**)
 - Tokyo Institute of Science & Technology, Yookahama Campus, Japan (**May 19, 2014**)

ii) **01.04.2005–08.12.2005, JSPS Invitation Fellowship (Long Term)**, National Institute of Advanced Industrial Science and Technology, (AIST), Osaka, Japan

iii) **01.12.2000–01.05.2001, Visiting Professor**, Department of Materials Science, Materials Engineering and Inorganic Chemistry, Faculty of Science, **University of Cadiz**, Puerto Real, Cadiz, **Spain**

iv) **01.01.1997–31.12.1997, Research Visitor**, Department of Materials Science, Materials Engineering and Inorganic Chemistry, Faculty of Science, **University of Cadiz**, Puerto Real, Cadiz, **Spain**

Prizes/Awards/ Medals/ Honours, etc

i) Elected Fellow, International Academy of Physical Sciences, 2017

ii) Prof. Priyadarajan Ray Memorial Award, Indian Chemical Society, 2016

iii) Elected Fellow, Indian Academy of Sciences, India, 2016

iv) Elected Fellow, National Academy of Sciences, India, 2009

v) ACS Membership Award, American Chemical Society, 2015

vi) Platinum Jubilee Award Lecture, Indian Science Congress Association, 2014

vii) Vice-Chancellor's Award for Excellence in Research, BHU, Varanasi, 2014

viii) Bronze Medal, Chemical Research Society of India, 2005

ix) Young Scientist Award, M P Council of Science and Technology, Bhopal, 1990

Member of various committees at national level.

i) Member, DST FIST Committee in Chemical Sciences, 2016-

ii) Core Member, SERB Fast Track Young Scientist Committee, 2015-

iii) Member, SAP Interface Committee, UGC, New Delhi, 2015

iv) Member, Editorial Board, Indian Journal of Chemistry, Sect A. Jan 2015-

Other Distinctions etc.

i) Convenor, 7th RSC-CRSI and 15th CRSI National Symposium in Chemistry, 2013

ii) Joint Secretary, Chemical Research Society of India, Bangalore, 2011-2014

iii) Council Member, Chemical Research Society of India, Bangalore, 2008-2011

iv) Participation in DST INSPIRE Programmes (2009 onward)

v) UGC Expert on Special Assistance, DDU University, Gorakhpur (2010-2013)

vi) External Expert, DRC, APS University, Rewa, Madhya Pradesh

vii) Member, Selection Committees in various Universities/Institutes

viii) Member CSIR Confidential Committee (from time to time)

ix) Member, Faculty of Science, Patna University, Patna, 2015

x) Member Board of Studies, Manipur University, Imphal, 2017

Administrative

a) As a student of Indian Institute of Technology, Kanpur (July 1983-89)

i) Member, Hall Executive Committee, Hall-V, Indian Institute of Technology, Kanpur

ii) Gardening Secretary, Hall-V, Indian Institute of Technology, Kanpur

iii) Mess Secretary, Hall-V, Indian Institute of Technology, Kanpur

iv) Member, CDEC, Hall-V, Indian Institute of Technology, Kanpur

b) As a faculty member of Awadhesh Pratap Singh University, Rewa, Madhya Pradesh

i) Member, Valuation cell (number of times), APS University, Rewa

ii) Member, Re-evaluation cell (number of times), APS University, Rewa

iii) Member, Coding/decoding cell (number of times) APS University, Rewa

- iv) Superintendent and Deputy Superintendent, University Examinations (number of times), APS University, Rewa
- v) Member, DRC (number of times) APS University, Rewa
- vi) Member, Examination Committee, APS University, Rewa
- vii) Member, Board of Studies, APS University, Rewa
- viii) Member admission and other committees of the Department of Chemistry (1990-2003), APS University, Rewa

c) As a faculty member of Banaras Hindu University, Varanasi, Uttar Pradesh

- i) Head, Department of Chemistry, Institute of Science, Banaras Hindu University Varanasi March 31, 2018- till date
- ii) In-charge, USIC- Level II, Banaras Hindu University, Varanasi, Jan. 2013- July 2018
- iii) Administrative Warden, Dalmia Hostel, BHU Varanasi. 2008–09
- iv) Deputy Coordinator and Coordinator, Centre for Advanced Study (CAS), Department of Chemistry, BHU Varanasi, 2017-till date
- v) Member, DST-PURSE Implementation Committee, BHU Varanasi, 2016 -
- vi) Member, Committee for Central Discovery Centre (CDC), BHU Varanasi,
- vii) Member, DST-FIST Implementation Committee, Department of Chemistry, Institute of Science, BHU Varanasi, 2016-
- viii) Member, Teaching, Research and Development Committee, BHU Varanasi, 2016
- ix) Member, Knowledge Management and Innovation Cell, BHU Varanasi, 2016
- x) Member, Faculty Level Centennial Celebration Committee, BHU Varanasi
- xi) Member, Industry and Business Interface Cell, BHU Varanasi
- xii) Member, Peace/Counseling Committee, Faculty of Science, BHU Varanasi
- xiii) Member, Training and Placement Cell, Faculty of Science, BHU Varanasi
- xiv) Member, Board of Studies, M.Sc. in Forensic Science, BHU Varanasi
- xv) Member of various committees in the Department, Institute, and Banaras Hindu University, Varanasi.

Summary of the research publications:

S. No	Name of the Journal	No. of papers published	Impact factor
1.	Act. Cryst. Sect. E	03	0.347
2.	ACS Omega	01	-
3.	Analyst	01	3.88
4	Bull. Chem. Soc., Jpn	03	2.220
5.	Biomedicine & Pharmacotherapy	01	2.78
6.	Chem. Comm.	06	6.319
7.	ChemPhysChem	01	3.075
8.	Chem. Soc. Rev.	01	38.618
9.	Cryst Growth & Des.	01	4.43
10.	Cryst Eng Comm	01	3.474
11.	Chem.- Eur. J.	02	5.77
12.	Chemistry Select	02	1.505
13.	Coord. Chem. Rev.	01	12.239
14.	Dalton Trans.	13	4.029
15.	Eur. J. Inorg. Chem.	05	2.942
16.	Eur. J. Med. Chem.	01	3.447

17.	Inorg. Chem.	13	4.82
18.	Inorg. Chem. Commun	02	2.064
19.	Inorg. Chim. Acta	11	2.046
20.	Ind. J. Chem. Sect A	14	0.851
21.	J. Chem. Sci.	01	1.298
22.	J. Inorg. Biochem.	01	3.444
23.	J. Ind. Chem. Soc.	02	0.360
24.	J. Luminescence	01	2.68
25.	J. Mol. Struct.	02	1.602
26.	J. Organomet. Chem.	29	2.173
27.	J. Phys. Chem. C	02	4.730
28.	New J. Chem.	01	3.269
29.	Organometallics	03	4.19
30.	Organic Letters	01	6.364
31.	Polyhedron	05	2.011
32.	RSC Advances	05	3.108
33.	Soft Matter	01	3.889
34.	Tetrahedron Letters	04	2.379
35.	Synth.React.Inorg. & Metal-Org. Chem.	05	0.533
36.	Transit Metal Chem	01	1.402

Complete List of Publications

a) Scientific Reviews

1.	Ashish Kumar Singh, and Daya Shankar Pandey* , Qiang Xu*, and Pierre Braunstein* (2014) “Recent Advances in Supramolecular and Biological Aspects of Arene Ruthenium(II) Complexes” <i>Coord. Chem. Rev.</i> 270–271, 31–56
2.	Prashant Kumar, Rakesh Kumar Gupta, and Daya Shankar Pandey* (2014) “Half-Sandwich Ruthenium Arene Complexes: Synthetic Strategies and Relevance in Catalysis” <i>Chem. Soc. Rev.</i> 43, 707–733
3.	Sanjay Kumar Singh, and Daya Shankar Pandey* (2014) “Biologically active half-sandwiched arene-ruthenium complexes” <i>RSC Adv.</i> 4, 1819–1840

b) Technical Articles

2019	
145.	Aggregation induced emission behaviour in Red emissive BODIPY ligand and its Zn(II) complexes POLY-D-19-00102R1 (Under Revision)
144	Vishwa Deepak Singh, Bhupendra Kumar Dwivedi, Rajendra Prasad Paitandi, Yogesh Kumar and Daya Shankar Pandey* (2019) “Effect of substituents on photophysical and aggregation behaviour in quinoline based bis-terpyridine Zn(II) complexes” <i>Inorg Chim Acta</i> 487, 24–30.
143	Bhupendra Kumar Dwivedi, Roop Shikha Singh, Afsar Ali, Vinay Sharma, Shaikh M Mobin, and Daya Shankar Pandey* (2019) “AIE active piperazine appended naphthamide-BODIPYs: Photophysical properties and applications in live cell lysosomal tracking” <i>Analyst</i> 144, 331–341
2018	
142	Vishwa Deepak Singh, Rajendra Prasad Paitandi, Bhupendra Kumar Dwivedi, Roop Shikha Singh, and Daya Shankar Pandey* (2018) “Bis-cyclometalated Ir(III) complexes

	involving functionalized terpyridine based ligands exhibiting aggregation induced emission and their potential applications in CO ₂ detection” <i>Organometallics</i> 37, 3827–3838
141	Rajendra Prasad Paitandi, Vinay Sharma, Vishwa Deepak Singh, Bhupendra Dwivedi, Shaikh M. Mobin, and Daya Shankar Pandey* (2018) “Pyrazole Appended Quinoline-BODIPY Based Arene Ruthenium Complexes: Their Anticancer Activity and Potential Applications in Cellular Imaging” <i>Dalton Trans</i> 47, 17500 - 17514
40.	Bhupendra Kumar Dwivedi, Vishwa Deepak Singh, Rajendra Prasad Paitandi, and Daya Shankar Pandey* (2018) Substituent Directed ESIPT Coupled AIE in NIR Emitting Quinazoline Derivatives” <i>ChemPhys Chem</i> , 19, 2672-2682.
139	Arnab Biswas, Sujay Mukhopadhyay, Roop Sikha Singh, Ashish Kumar, Nishant Rana, Biplob Koch, and Daya Shankar Pandey* (2018) “Manipulating Metallogel Properties by Luminogens and their Applications in Cell Imaging” <i>ACS Omega</i> , 3, 5417–5425.
138	Rajendra Prasad Paitandi, Roopshikha Singh, Bhupendra Dwivedi, Vishwa Deepak Singh, and Daya Shankar Pandey* (2018) “ Time dependent aggregation induced emission enhancement and the study of molecular packing in closely related azo-phenol BODIPY species” <i>Dalton Trans.</i> 47, 3785 – 3795.
137	Vishwa Deepak Singh, Roop Shikha Singh, Rajendra Prasad Paitandi, Bhupendra Kumar Dwivedi, Biswajit Maiti, and Daya Shankar Pandey* (2018) Solvent Dependent Self-assembly and AIE in Zn(II) Complexes Containing Phenothiazine Based Terpyridine ligand and its Efficacy in Pyrophosphate Sensing” <i>J. Phys Chem C</i> , 22, 5178–5187.
2017	
136	Rajendra Prasad Paitandi, Sujay Mukhopadhyay, Roop Shikha Singh, Vinay Sharma; Shaikh M. Mobin, and Daya Shankar Pandey* (2017) "Anticancer Activity of Iridium(III) Complexes Based on a Pyrazole Appended Quinoline-BODIPY" <i>Inorg. Chem.</i> 56, 12232–12247.
135	Sujay Mukhopadhyay, Kheyath Mitra, Rajendra Prasad Paitandi, Roop Shikha Singh, Shikha Singh, Biswajit Ray* and Daya Shankar Pandey* (2017) “Cyclometalated Pd(II) Complexes as Efficient Catalysts for Polymerization of 1-(2-propynyl)-3-methylimidazolium bromide and Interaction of Ensuing Oligomer with BSA” <i>Chemistry Select</i> , 2, 6000–6008.
134	Sujay Mukhopadhyay, Roop Shikha Singh, Rajendra Prasad Paitandi, Gunjan Sharma, Biplob Koch, and Daya Shankar Pandey* (2017) "Influence of substituents on DNA and protein binding of cyclometalated Ir(III) complexes and anticancer activity" <i>Dalton Trans</i> , 46, 8572 – 8585.
133	Rajendra Prasad Paitandi, Roop Shikha Singh, Sujay Mukhopadhyay, Ashish Kumar, and Daya Shankar Pandey* (2017) “Spacer Length Dependent Architectural Diversity in bis-Dipyrrin Copper(II) Complexes” <i>Dalton Trans</i> , 46, 5420–5430.
132	Rampal Pandey, Gábor Méhes, Roop Shikha Singh, Amit Kumar, Ashish Kumar, Chihaya Adachi, and Daya Shankar Pandey* (2017) “Strong luminescence behavior of mono- and dimeric imidazoquinazolines: Swift OLED degradation under electrical current” <i>J. Lumin.</i> 181, 252–260.
131.	Gunjan Sharma, Nishant Kumar Rana, Priya Singh, Pradeep Dubey, Daya Shankar Pandey* , Biplob Koch* (2017): “p53 dependent apoptosis and cell cycle delay induced by heteroleptic complexes in human cervical cancer cells” <i>Biomedicine & Pharmacotherapy</i> , 88, 218–231.
130	Rajendra Prasad Paitandi, Roop Shikha Singh, Sujay Mukhopadhyay, Gunjan Sharma, Biplob Koch, Pratap Bishnoi, and Daya Shankar Pandey* (2017) “Synthesis, characterization, DNA binding and cytotoxicity of fluoro-dipyrrin based arene ruthenium(II) complexes” <i>Inorg. Chim. Acta</i> , 454C, 117–127.
2016	

129	Roop Shikha Singh, Ashish Kumar, Sujay Mukhopadhyay, Gunjan Sharma, Biplob Koch, <u>Daya Shankar Pandey*</u> (2016) “An Unconventional Mechanistic Insight on Aggregation Induced Emission in Novel Boron Dipyrromethenes and Their Rational Biological Realizations” <i>J. Phys. Chem. C</i> , 120, 22605–22614.
128	Ashish Kumar, Roop Shikha Singh, Amit Kumar, Afsar Ali, Arnab Biswas, and <u>Daya Shankar Pandey*</u> (2016) “Fine-Tuning Saponification Triggered Gelation by Strategic Modification of Peripheral Substituents: Gelation Regulators” <i>Chem. Eur. J.</i> 22, 13799–13804.
127	Sujay Mukhopadhyay, Roop Shikha Singh, Arnab Biswas and <u>Daya Shankar Pandey*</u> (2016) “Molecular and Nanoaggregation in Cyclometalated Iridium(III) Complexes through Structural Modification” <i>Eur. J. Inorg. Chem.</i> 4199–4206.
126	Arnab Biswas, Sujay Mukhopadhyay, Roop Shikha Singh and <u>Daya Shankar Pandey*</u> (2016) “Small Organic Non-gelators Evincing Radical Control over Morphology and Rheology of a Weak Metallogel” <i>Chemistry Select</i> , 1, 1904–1909.
125.	Amit Kumar, Ashish Kumar, and <u>Daya Shankar Pandey*</u> (2016) “N,N-diethylamine appended binuclear Zn(II) metallacycle; A highly selective fluorescent chemosensor for picric acid” <i>Dalton Trans.</i> 45, 8475–8484.
124	Rakesh Kumar Gupta, Vinod Kumar, Anchal Srivastava, and <u>Daya Shankar Pandey*</u> (2016) “Dipyrrin complex assisted in-situ synthesis of ultra-small gold nanoparticles decorated on partially reduced graphene oxide nanocomposite for efficient catalytic reduction of Cr(VI) to Cr(III)” <i>RSC Adv.</i> 6, 40911– 40915.
123	Rakesh Kumar Gupta, Amit Kumar, Rajendra Prasad Paitandi, Roop Shikha Singh, Sujay Mukhopadhyay, Shiv Prakash Verma, Parimal Das, and <u>Daya Shankar Pandey*</u> (2016) “Heteroleptic arene Ru(II) dipyrinato complexes: DNA, protein binding and anti-cancer activity against ACHN cancer cell line” <i>Dalton Trans.</i> 45, 7163–7177.
122.	Arnab Biswas, Mrigendra Dubey, Sujay Mukhopadhyay, Ashish Kumar, and <u>Daya Shankar Pandey*</u> (2016) “Anion Triggered Metallogel: Demetalated Crystal Growth inside and Improvement of Viscoelastic Properties Using Au-NPs” <i>Soft Matter</i> , 12, 2997–3003.
121	Sujay Mukhopadhyay, Roop Shikha Singh, Arnab Biswas and <u>Daya Shankar Pandey*</u> (2016) “Photochemical water oxidation by cyclometalated iridium(III) complexes: A mechanistic insight” <i>Chem. Commun.</i> 52, 3840–3843.
120	Roop Shikha Singh, Sujay Mukhopadhyay, Arnab Biswas, and <u>Daya Shankar Pandey*</u> (2016) “Exquisite 1D Assemblies Arising from Rationally Designed Asymmetric Donor–Acceptor Architectures Exhibiting Aggregation-Induced Emission as a Function of Auxiliary Acceptor Strength” <i>Chem. Eur. J.</i> 22,753–763.
119	Amit Kumar, Rakesh Kumar Gupta, Ashish Kumar, Rajendra Prasad Paitandi, Krishna Beer Singh, Surendra Kumar Trigun, Maninder Singh Hundal, and <u>Daya Shankar Pandey*</u> (2016) “Cationic Ru(II), Rh(III) and Ir(III) complexes containing cyclic π -perimeter and 2-aminophenyl benzimidazole ligands: Synthesis, molecular structure, DNA and protein binding, cytotoxicity and anticancer activity” <i>J. Organomet. Chem.</i> 801, 68–79.
2015	
118	Mrigendra Dubey, Ashish Kumar, Vishal M Dhavale, Shreekumar Kurungot, and <u>Daya Shankar Pandey*</u> (2015) “Can enantiomer ligands produce structurally distinct homochiral MOF” <i>Cryst Eng Comm.</i> 17, 8202– 8206.
117	Sujay Mukhopadhyay, Rakesh Kumar Gupta, Rajendra Prasad Paitandi, Nishant Rana, Gunjan Sharma, Biplob Koch, Love Karan Rana, Maninder Singh Hundal and <u>Daya Shankar Pandey*</u> (2015) “Synthesis, Structure, DNA/Protein Binding, and Anticancer Activity of some Half

	Sandwich Cyclometalated Rh(III) and Ir(III) Complexes” <i>Organometallics</i> , 34, 4491–4506.
116	Ashish Kumar, Amit Kumar, Mrigendra Dubey, Arnab Biswas, and Daya Shankar Pandey* (2015) “Detection of Copper (II) and Aluminium (III) by a new bis-benzimidazole Schiff base in aqueous media via distinct routes” <i>RSC Advances</i> , 5, 88612–88624.
115	Amit Kumar, Rampal Pandey, Rakesh Kumar Gupta, Ashish Kumar, Mrigendra Dubey, Akbar Mohammed, Shaikh M. Mobin, and Daya Shankar Pandey* (2015) “Self-assembled copper(II) metallacycles derived from asymmetric Schiff base ligands: Efficient host for ADP/ATP in phosphate buffer” <i>Dalton Trans.</i> 44, 17152–17165.
114	Roop Shikha Singh, Rakesh Kumar Gupta, Rajendra Prasad Paitandi, Mrigendra Dubey, Gunjan Sharma, Biplob Koch, and Daya Shankar Pandey* (2015) “Morphological tuning <i>via</i> structural modulations in AIE luminogens with least possible variables and their use in live cell imaging” <i>Chem. Commun.</i> 51, 9125–9128.
113	Sujay Mukhopadhyay, Rakesh Kumar Gupta, Arnab Biswas, Amit Kumar, Mrigendra Dubey, Maninder Singh Hundal and Daya Shankar Pandey* (2015) “A Dual-responsive “Turn-on” Bifunctional Receptor: Chemosensor for Fe ³⁺ and Chemodosimeter for Hg ²⁺ ” <i>Dalton Trans.</i> 44, 7118–7122.
112	Roop Shikha Singh, Rakesh Kumar Gupta, Rajendra Prasad Paitandi, Arvind Misra, and Daya Shankar Pandey* (2015) “Triazole appended BODIPY-piperazine conjugates and their efficacy toward mercury sensing” <i>New J. Chem.</i> 39, 2233–2239.
111	Rakesh Kumar Gupta, Mrigendra Dubey, Pei Zhou Li, Qiang Xu, and Daya Shankar Pandey* (2015) “Size Controlled Synthesis of Ag Nanoparticles Functionalized by Heteroleptic Dipyrinato Complexes having <i>meso</i> -Pyridyl Substituents and Their Catalytic Applications” <i>Inorg. Chem.</i> 54, 2500–2500.
2014	
110.	Amit Kumar, Rampal Pandey, Ashish Kumar, and Daya Shankar Pandey* (2014) “Pyridylphenyl appended imidazoquinazoline based ratiometric fluorescence “turn on” chemosensor for Hg ₂ ⁺ and Al ₃ ⁺ in aqueous media” <i>RSC Adv.</i> 4, 55967–55970.
109	Anup Paul, Rakesh Kumar Gupta, Mrigendra Dubey, Gunjan Sharma, Biplob Koch, Geeta Hundal, Maninderjeet Singh Hundal, and Daya Shankar Pandey* (2014) “Potential apoptosis inducing agents based on a new benzimidazole Schiff base ligand and its dicopper(II) complex” <i>RSC Adv.</i> 4, 41228–41236.
108	Ashish Kumar, Mrigendra Dubey, Amit Kumar, and Daya Shankar Pandey* (2014) “Saponification Triggered Gelation in a Typical Zn(II) Complex Assisted Through Conformational Transformation” <i>Chem. Commun.</i> 50, 10086–10089.
107	Rampal Pandey, Gabor Mahor, Amit Kumar, Rakesh Kumar Gupta, Chihaya Adachi, and Daya Shankar Pandey* (2014) “Structural and mechanistic insights on a Fe ³⁺ -triggered quinazoline based molecular rotor” <i>Chem. Commun.</i> 50, 8032–8035.
106	Mrigendra Dubey, Ashish Kumar, Rakesh Kumar Gupta, and Daya Shankar Pandey* (2014) “Li ⁺ -induced selective gelation of discrete homochiral structural isomer derived from L-tartaric acid” <i>Chem. Commun.</i> 50, 8144–8147.
105	Rajendra Prasad Paitandi, Rakesh Kumar Gupta, Roop Shikha Singh, Gunjan Sharma, Biplob Koch*, and Daya Shankar Pandey* (2014) “Interactions of ferrocene-appended Ru(II), Rh(III), and Ir(III) dipyrinato complexes with DNA/protein, molecular docking and antitumor activity” <i>Eur. J. Med. Chem.</i> 84, 17–29.
104	Amit Kumar, Rampal Pandey, Rakesh Kumar Gupta, Mrigendra Dubey, and Daya Shankar

	Pandey* (2014) “Novel tetranuclear copper 2 + 4 cubanes resulting from unprecedented C-O bond formation cum dearomatization” <i>Dalton Trans.</i> 43, 13169–13173.
103	Ashish Kumar, Mrigendra Dubey, Rampal Pandey, Rakesh Kumar Gupta, Amit Kumar, Alok Ch. Kalita, and Daya Shankar Pandey* (2014) “A Schiff Base and Its Cu(II) Complex as Highly Selective Chemodosimeter for Hg(II) Involving Preferential Hydrolysis of Aldimine Over Ester Group” <i>Inorg. Chem.</i> 53, 4944–4955.
102	Amit Kumar, Rampal Pandey, Rakesh Kumar Gupta, Veenu Mishra, Saikh M. Mobin, and Daya Shankar Pandey* (2014) “Swift photoswitching in a binuclear Zn(II) metallacycle relative to Salen-type ligand” <i>Dalton Trans.</i> 43, 6365–6376.
101	Sujay Mukhopadhyay, Arnab Biswas, Rampal Pandey, Rakesh Kumar Gupta, and Daya Shankar Pandey* (2014) “A highly selective and femto-molar sensitive fluorescence ‘turn-on’ chemodosimeter for Hg ²⁺ ” <i>Tet. Lett.</i> 55, 1437–1440.
100	Mrigendra Dubey, Ashish Kumar, and Daya Shankar Pandey* (2014) “Homochiral coordination polymeric gel: Zn ²⁺ -induced conformational changes leading to J-aggregated helical fibres formation” <i>Chem. Commun.</i> 50, 1675–1677.
99	Rakesh Kumar Gupta, Rampal Pandey, Amit Kumar, K.V. Ramanujachary, Samuel E Lofl, and, and Daya Shankar Pandey* (2014) “Structural diversity in heteroleptic dipyrinato copper(II) complexes” <i>Inorg. Chim. Acta</i> 409, 518–527.
2013	
98	Amit Kumar, Rampal Pandey, Rakesh Kumar Gupta, and Daya Shankar Pandey* (2013) “Fluorescent azophenolquinazoline dyad as multi-channel reversible pH indicator in aqueous media: An innovative concept on diazo based dyads” <i>Tet. Lett.</i> 54, 6164–6167.
97	Rakesh Kumar Gupta, Gunjan Sharma, Rampal Pandey, Amit Kumar, Biplob Koch, Pei-Zhou Li, Qiang Xu, and Daya Shankar Pandey* (2013) “DNA/Protein Binding, Molecular Docking and <i>in-vitro</i> Anti-cancer Activity of some Thioether-Dipyrinato Complexes” <i>Inorg. Chem.</i> 52, 13984–13996.
96	Arnab Biswas, Rampal Pandey, Divya Kushwaha, Mohammad Shahid, Vinod Kumar Tiwari, Arvind Misra, and Daya Shankar Pandey* (2013) “Glycosyl based <i>meso</i> -substituted dipyrromethanes as fluorescent probes for Cu ²⁺ /Cd ²⁺ ions” <i>Tet. Lett.</i> 54, 4193–4197.
95.	Rakesh Kumar Gupta, Rampal Pandey, Gunjan Sharma, Ritika Prasad, Biplob Koch, Saripella Srikrishna, Pei-zhou Li, Qiang Xu, and Daya Shankar Pandey* (2013) “DNA Binding and Anti-Cancer Activity of Redox-Active Heteroleptic Piano-Stool Ru(II), Rh(III) and Ir(III) Complexes containing 4-(2-methoxypyridyl)phenyldipyrromethene” <i>Inorg. Chem.</i> 52, 3687–3698.
94.	Roop Shikha Singh, Mahendra Yadav, Rakesh Kumar Gupta, Rampal Pandey, and Daya Shankar Pandey* (2013) “Luminescent N,O-Chelated Chroman-BF ₂ Complexes: Structural Variants of BODIPY” <i>Dalton Trans.</i> 42, 1696–1707.
93.	Amit Kumar, Rampal Pandey, Rakesh Kumar Gupta, Kaushik Ghosh, and Daya Shankar Pandey* (2013) “Synthesis, characterization and photochemical properties of some ruthenium nitrosyl complexes” <i>Polyhedron (Werner Special Issue)</i> 52, 837–843.
2012	
92.	Rampal Pandey, Mahendra Yadav, Mohammad Shahid, Arvind Misra, and Daya Shankar Pandey* (2012) “Design and synthesis of fluorescent 6-aryl [1,2- <i>c</i>]quinazolines serving as selective and sensitive “on-off” chemosensor for Hg ²⁺ in aqueous media” <i>Tet. Lett.</i> 53, 3550–3555.
91.	Rakesh Kumar Gupta, Rampal Pandey, Sanjeev Sharma, and Daya Shankar Pandey* (2012)

	“Synthesis of Electroactive Multinuclear Dipyrrinato Complexes and Fe(III) Assisted Formation of α -Alkoxy Substituted 5-Ferrocenyldipyrromethenes” <i>Dalton Trans.</i> 41, 8556–8566.
90.	Rakesh Kumar Gupta, Rampal Pandey, Roop Shikha Singh, Nitin Srivastava, Satyen Saha, Biswajit Maiti, Peizhou Li, Qiang Xu, and Daya Shankar Pandey* (2012) “Heteroleptic Dipyrrinato Complexes Containing 5-Ferrocenyldipyrromethene and Dithiocarbamates as Co-ligands: Selective Chromogenic and Redox Probes” <i>Inorg. Chem.</i> 51, 8916–8930.
89.	Rampal Pandey, and Daya Shankar Pandey* (2012) “Reactions and structural studies of 4-(1 <i>H</i> -benzimidazole-2-yl)-benzonitrile with metal nitrates” <i>J. Indian Chem. Soc. (Special Issue, on 70th birthday of Prof. K.B. Pandeya)</i> 89, 1123–1134.
88.	Rampal Pandey, Rakesh Kumar Gupta, Pei-Zhou Li, Qiang Xu, Arvind Misra, and Daya Shankar Pandey* (2012) “Photoassisted ‘Gate-Lock’ Fluorescence ‘Turn-on’ in A New Schiff Base and Coordination Ability of <i>E-Z</i> Isomers” <i>Org. Lett.</i> 14, 592–595.
87.	Rampal Pandey, Rakesh Kumar Gupta, Mohammad Shahid, Biswajit Maiti, Arvind Misra, and Daya Shankar Pandey* (2012) “Synthesis and Characterization of Electroactive Ferrocene Derivatives: Ferrocenyl-imidazoquinazoline as multichannel chemosensor selectively for Hg ²⁺ and Pb ²⁺ ions in aqueous environment” <i>Inorg. Chem.</i> 51, 298–311.
2011	
86.	Rakesh Kumar Gupta, Mahendra Yadav, Rampal Pandey, and Daya Shankar Pandey* (2011) “Synthesis and characterization of some heteroleptic copper(II) complexes based on <i>meso</i> -substituted dipyrrens” <i>J. Chem Sci. (International Year of Chemistry Special Issue)</i> , 123, 819–826.
85.	Rampal Pandey, Joan Ribas, Montserrat Corbella, and Daya Shankar Pandey* (2011) “Ferromagnetic vs anti-ferromagnetic coupling in structurally analogous binuclear complexes based on salen type ligand” <i>Indian J. Chem Sect-A (Acharya Prafulla Chandra Ray Special Issue)</i> 50A, 1450–1456.
84.	Prashant Kumar, Ashish Kumar Singh, Rampal Pandey, and Daya Shankar Pandey* (2011) “Bio-catalysts and catalysts based on ruthenium(II) polypyridyl complexes imparting diphenyl-(2-pyridyl)-phosphine as co-ligand” <i>J. Organomet. Chem.</i> 696, 3454–3464.
83.	Rampal Pandey, Mahendra Yadav, Prashant Kumar, Pei-Zhou Li, Sanjay Kumar Singh, Qiang Xu and, and Daya Shankar Pandey* (2011) “Coordination polymers and monomer based on new aminocarboxylate ligands: A cadmium(II) polymer containing dimeric aqua-bridged cadmium complex governed by polymeric chain” <i>Inorg. Chim. Acta</i> , 376, 195–206.
82.	Rampal Pandey, Prashant Kumar, Ashish Kumar Singh, Mohammad Shahid, Pei-zhou Li, Sanjay Kumar Singh, Qiang Xu, Arvind Misra, and Daya Shankar Pandey* (2011) “Highly Fluorescent Dimeric Zinc(II) Complex Exhibiting “On-Off-On” Switching ability towards Cu ²⁺ and Ag ⁺ ions” <i>Inorg. Chem.</i> 50, 3189–3197.
81.	Ashish Kumar Singh, Mahendra Yadav, and Daya Shankar Pandey* (2011) “Synthesis and characterization of 3 <i>d</i> - metal complexes based on 1-(4-nitrophenyl)-imidazole” <i>Bull. Chem. Soc. Japan</i> 84, 205–210.
80.	Prashant Kumar, Ashish Kumar Singh, Mahendra Yadav, Pei-zhou Li, Sanjay Kumar Singh, Qiang Xu, and Daya Shankar Pandey* (2011) “Synthesis and Characterization of Ruthenium(II) Complexes based on Diphenyl-2-Pyridylphosphine and their applications in Transfer Hydrogenation of Ketones” <i>Inorg. Chim. Acta</i> , 368, 124–131.
79.	Mahendra Yadav, Ashish Kumar Singh, and Daya Shankar Pandey* (2011) “Heteroleptic half-sandwich Ru(II), Rh(III) and Ir(III) complexes based on 5-ferrocenyldipyrromethene” <i>J. Organomet. Chem.</i> 696, 758–763.
2010	

78.	Prashant Kumar, Ashish Kumar Singh, Rampal Pandey, Pei-zhou Li, Sanjay Kumar Singh, Qiang Xu, and Daya Shankar Pandey* (2010) “Synthesis, characterization and reactivity of arene ruthenium complexes based on 2,2'-dipyridylamine and di-2-pyridylbenzylamine and their applications in catalytic hydrogen transfer of ketones” <i>J. Organomet. Chem.</i> 695, 2205–2212.
77.	Ashish Kumar Singh, Mahendra Yadav, Rampal Pandey, Prashant Kumar, and Daya Shankar Pandey* (2010) “Half-sandwich ruthenium, rhodium and iridium complexes containing dipyridylamine based ligands” <i>J. Organomet. Chem.</i> 695, 1932–1939.
76.	Rakesh K Gupta, Ashish K Singh, Mahendra Yadav, Prashant Kumar, Sanjay K Singh, Peizhou Li, Qiang Xu, and Daya Shankar Pandey* (2010) “Synthesis and characterization of some Ru(IV) and Rh(I) complexes containing phenylimidazole ligands” <i>J. Organomet. Chem.</i> 695, 1924–1931.
75.	Mahendra Yadav, Ashish Kumar Singh, Rampal Pandey, and Daya Shankar Pandey* (2010) “Synthesis and characterization of complexes imparting N-pyridyl bonded <i>meso</i> -pyridyl substituted dipyrro-methanes” <i>J. Organomet. Chem.</i> 695, 841–849.
74.	Ashish Kumar Singh, Mahendra Yadav, Sanjay Kumar Singh, Sailaja Sunkari, and Daya Shankar Pandey* (2010) “Extended molecular networks based on Zn and Cd imparting N-substituted imidazole” <i>Inorg. Chim. Acta.</i> 363, 995–1000.
73.	Prashant Kumar, Mahendra Yadav, Ashish Kumar Singh, and Daya Shankar Pandey* (2010) “Synthetic, spectral, structural and catalytic aspects of some “ <i>piano-stool</i> ” complexes containing 2-(di-phenylphosphino)ethylpyridine” <i>Eur. J. Inorg. Chem.</i> 704–715.
72.	Mahendra Yadav, Prashant Kumar, and Daya Shankar Pandey* (2010) “Heteroleptic rhodium complexes containing both the dipyririn/-cyclooctadiene ligands and application of [$(\eta^4\text{-C}_8\text{H}_{12})\text{-Rh(4-pyrdpm)}$] in the construction of homo-/hetero-bimetallic complexes” <i>Polyhedron</i> , 29, 791–800.
71.	Sudhakar Dhar Dwivedi, Santosh K Dubey, Ashish K Singh, Krishna K Pandey, and Daya Shankar Pandey* (2010) “Ruthenium(II) thiolato complexes: Synthesis, reactivity, spectral, structural and theoretical studies” <i>Inorg. Chim. Acta</i> 363, 2095–2103.
70.	Ashish Kumar Singh, Prashant Kumar, Mahendra Yadav, and Daya Shankar Pandey* (2010) “Synthesis, characterization and theoretical studies on some <i>piano-stool</i> ruthenium and rhodium complexes containing substituted phenylimidazole ligands” <i>J. Organomet. Chem.</i> 695, 567–573.
69.	Prashant Kumar, Mahendra Yadav, Ashish Kumar Singh, and Daya Shankar Pandey* (2010) “Synthesis and characterization of some novel ruthenium(II) complexes containing thiolate ligands” <i>J. Organomet. Chem.</i> 695, 994–1001.
2009	
68.	Mahendra Yadav, Prashant Kumar, Ashish Kumar Singh, Joan Ribas, and Daya Shankar Pandey* (2009) “First examples of homo-/heteroleptic bi-/trinuclear complexes containing 5-ferrocenyldipyrro-methene” <i>Dalton Trans.</i> 9929–9934.
67.	Prashant Kumar, Ashish Kumar Singh, Sanjeev Sharma, and Daya Shankar Pandey* (2009) “Structures, preparation and catalytic activity of ruthenium cyclopentadienyl complexes based on pyridylphosphine ligand” <i>J. Organomet. Chem.</i> 694, 3643–3652.
66.	Ashish Kumar Singh, Mahendra Yadav, Prashant Kumar, Sanjay Kumar Singh, Shailja Kumari, and Daya Shankar Pandey* (2009) “Novel structures based on 1-(4-cyanophenyl)-imidazole resulting from weak bonding interactions” <i>J. Mol. Struct.</i> 935, 1–7.
65.	Prashant Kumar, Ashish Kumar Singh, Jitendra Kumar Saxena, and Daya Shankar Pandey* (2009) “Synthesis and characterization of ruthenium(II) polypyridyl complexes containing α -amino acids and its DNA binding behavior” <i>J. Organomet. Chem.</i> 694, 3570–3579.
64.	Mahendra Yadav, Ashish Kumar Singh, and Daya Shankar Pandey* (2009) “First examples of heteroleptic dipyririn/ η^5 -pentamethylcyclopentadienyl rhodium-/iridium(III) complexes and their

	catalytic activity” <i>Organometallics</i> 28, 4713–4723.
63.	Mahendra Yadav, Ashish Kumar Singh, Biswajit Maiti, and Daya Shankar Pandey* (2009) “Heteroleptic arene ruthenium complexes based on meso-substituted dipyrromethenes: Structure, reactivity, electrochemical and theoretical studies” <i>Inorg. Chem.</i> 48, 7593–7603.
62.	Ashish Kumar Singh, Sudhakar Dhar Dwivedi, Santosh Kumar Dubey, Sanjay Singh, Sanjeev Sharma, and Daya Shankar Pandey* , Ru-Qiang Zou, and Qiang Xu (2009) “Synthesis and reactivity of homobimetallic Rh and Ir complexes containing a N,O-donor Schiff base” <i>J. Organomet. Chem.</i> 694, 3084–3090.
61.	Manoj Trivedi*, Daya Shankar Pandey , and Nigam P. Rath (2009) “Binuclear copper and zinc complexes based on polypyridyl ligand 2,3,5,6-tetra(2-pyridyl)-pyrazine (tppz): Synthesis, spectral and structural characterization” <i>Inorg. Chim. Acta</i> , 362, 284–290.
60.	Manoj Trivedi*, Daya Shankar Pandey , and Nigam P. Rath (2009) “catena-Poly[(pyridine- κ N)copper(II)- μ 3-pyridine-2,6-dicarboxylato- κ^3 O ² :O ² ,N,O ⁶ :O ⁶]” <i>Acta Cryst. E</i> 65, m303–m304,
2008	
59.	Sanjay Kumar Singh, Sanjeev Sharma, Sudhakar Dhar Dwivedi, Ru-Qiang Zou, Qiang Xu, and Daya Shankar Pandey* (2008) “Reactivity of the Oxime/Oximato Group in Ruthenium(II) Complexes” <i>Inorg. Chem.</i> 47, 11942–11949.
58.	Sudhakar Dhar Dwivedi, Ashish Kumar Singh, Sanjay Singh, Sanjeev Sharma, Manish Chandra, and Daya Shankar Pandey* (2008) “Ruthenium Complexes Containing Pyridine-2-carbaldehyde Azine as a Synthone in the Synthesis of Bi-/Trimetallic Complexes” <i>Eur. J. Inorg. Chem.</i> 5666–5673.
57.	Sanjay Kumar Singh, Santosh Kumar Dubey, Rampal Pandey, Lallan Mishra, Ru-Qiang Zou, Qiang Xu, and Daya Shankar Pandey* (2008) “Ruthenium(II), Rhodium(III) and Iridium(III) based effective catalysts for hydrogenation under aerobic conditions” <i>Polyhedron</i> 27, 2877–2882.
56.	Rui-Qin Zhong, Ru-Qiang Zou, Daya Shankar Pandey , Tetsu Kiyobayashi, and Qiang Xu* (2008) “A novel 3D microporous metal-organic framework of cadmium(II) oxalate with diamondoid network” <i>Inorg. Chem. Commun.</i> 11,951–953.
55.	Manoj Trivedi*, Daya Shankar Pandey , and Nigam P. Rath (2008) “Dioxidobis(2-oxo-1,2-dihydropyridin-3-olato)Molybdenum(VI)” <i>Acta Cryst. E</i> 64, m595–m596.
54.	Manoj Trivedi, Daya Shankar Pandey* , Ru-Qiang Zou, and Qiang Xu (2008) “Novel Rh(III) pentamethylcyclopentadienyl and Ru(II) cyclopentadienyl complexes containing 1,3,5-triazine-2,4,6-trithiol in trinucleating mode” <i>Inorg. Chem. Commun.</i> 11, 526–530.
53.	Ru-Qiang Zou, Rui-Qin Zhong, Miao Du, Daya Shankar Pandey and Qiang Xu* (2008) “Controllable Congregating of Homochiral and Achiral Coordination Polymers: Cadmium (II) Pyridine-2,4,6-Tricarboxylate Species with Double Helical Strand and Molecular Building Block Structures” <i>Cryst. Growth & Des.</i> 8, 452–459.
52.	Sanjeev Sharma, Sanjay K. Singh and Daya Shankar Pandey* (2008) “Ruthenium(II) Polypyridyl Complexes: Potential Precursors, Metallo-ligands and Topo II Inhibitors” <i>Inorg. Chem.</i> 47, 1179–1189.
51.	Manoj Trivedi, Sanjay K. Singh, Daya Shankar Pandey* , Ru-Qiang Zou, Manish Chandra and Qiang Xu (2008) “Ruthenium(II) Complexes of 2,6-Diacetylpyridinemonoxime Encapsulating Water Dimer and Trimer” <i>J. Mol. Struct.</i> 886, 136–143.
2007	
50.	Sanjay Kumar Singh, Shweta Joshi, Alok Ranjan Singh, Jitendra Kumar Saxena and Daya Shankar Pandey* (2007) “DNA Binding and Topoisomerase II Inhibitory Activity of Water-Soluble Ruthenium(II) and Rhodium(III) Complexes” <i>Inorg. Chem.</i> 46, 10869–10876.
49.	Manoj Trivedi, Daya Shankar Pandey* , and Q. Xu (2007) “Nickel and copper complexes based on tridentate nitrogen donor ligand 2,6-bis-(1-phenyliminoethyl)pyridine: Synthesis,

	spectral and structural characterization” <i>Inorg. Chim. Acta</i> 360, 2492–2498.
2006	
48.	Sanjay Kumar Singh, Manoj Trivedi, Manish Chandra, Santosh Kumar Dubey, and Daya Shankar Pandey* (2006) “Tuned helical array of Rhodium(III)/ Iridium(III) <i>Cp*</i> complexes with poly-pyridyl ligands” <i>Eur. J. Inorg. Chem.</i> 3954–3961.
2005	
47.	Manoj Trivedi, Sanjay K Singh, Daya Shankar Pandey* , M.C. Puerta and Pedro Valerga (2005) “Effect of the counter anion on structure, stability and spectral properties of a ruthenium(II) complex containing group 15 donors and 2,2':6',2"-terpyridine” <i>Trans. Met. Chem.</i> 30, 861–868.
46.	Sanjeev Sharma, Manoj Trivedi and Daya Shankar Pandey* (2005) “Synthesis and characterization of some cationic ruthenium(II) complexes based on poly-pyridyl ligand” <i>Indian J. Chem.</i> 44A, 1571–1575.
45.	Sanjay K. Singh, Sanjeev Sharma, M. Chandra and Daya Shankar Pandey* (2005) “Helical Racemate Architecture based on Osmium(II) Polypyridyl Complexes: Synthesis and Structural Characterization” <i>J. Organomet. Chem.</i> 690, 3105–3110.
44.	Sanjeev Sharma, Sanjay K. Singh, M. Chandra and Daya Shankar Pandey* (2005) “DNA-binding behavior of Ruthenium(II) helicates imparting both group 15 donor and 2,2':6',2"-terpyridine” <i>J. Inorg. Biochem.</i> 99, 458–466.
43.	Sanjay Kumar Singh, Manoj Trivedi, Manish Chandra and Daya Shankar Pandey* (2005) “Rhodium(III) pentamethylcyclopentadiene complexes incorporating 1-(4-cyanophenyl)-imidazole: Role of solvent in ligand substitution reactions” <i>J. Organomet. Chem.</i> 690, 647–652.
42.	Anupam Singh, Sanjay K. Singh, Manoj Trivedi, and Daya Shankar Pandey* (2005) “Synthetic, spectral and structural studies of some homo and hetero binuclear arene ruthenium (II) polypyridyl complexes” <i>J. Organomet. Chem.</i> 690, 4243–4251.
2004	
41.	Sanjay K. Singh, Manoj Trivedi, M. Chandra, Abhaya N. Sahay and Daya Shankar Pandey* (2004) “Luminescent <i>piano-stool</i> complexes incorporating 1-(4-cyanophenyl)imidazole: Synthesis, Spectral and Structural studies” <i>Inorg. Chem.</i> 43, 8600–8608.
40.	Sanjay K. Singh, Manish Chandra, Daya Shankar Pandey* , M.C. Puerta and Pedro Valerga (2004) “Helices of ruthenium complexes involving pyridyl-azine ligands; Synthesis, Spectral and Structural aspects” <i>J. Organomet. Chem.</i> 689, 3612–3620.
39.	Sanjeev Sharma, Manoj Trivedi, Manish Chandra and Daya Shankar Pandey* (2004) “Cationic ruthenium complexes based on planar poly-pyridyl ligand 2,4,6-tris(2-pyridyl)-1,3,5-triazine” <i>Indian J. Chem.</i> 43A, 2573–2577.
38.	Sanjay K. Singh, M. Chandra and Daya Shankar Pandey* (2004) “Ru(II) complexes imparting N ₂ O ₂ donor bis chelating ligand N,N'-bis(salicylidine)hydrazine in unusual coordination mode” <i>J. Organomet. Chem.</i> 689, 2073–2079.
37.	Manish Chandra, A.N. Sahay, Daya Shankar Pandey* , R.P. Tripathi, J.K. Saxena, V.J.M. Reddy, M. Carmen Puerta and Pedro Valerga (2004) “Potential Inhibitors of DNA Topoisomerase II: Ruthenium(II) Polypyridyl and Pyridylazine Complexes” <i>J. Organomet. Chem.</i> 689, 2256–2267.
36.	Anupam Singh, Manish Chandra, Abhaya N. Sahay, Daya Shankar Pandey* , Krishna K. Pandey, Shaikh M. Mobin, M. Carmen Puerta and Pedro Valerga (2004) “Arene Ruthenium Complexes Incorporating Imine/Azine Hybrid-Chelating N-N' Donor Ligands: Synthetic, Spectral, Structural Aspects and DFT Studies” <i>J. Organomet. Chem.</i> 689, 1821–1834.
35.	S. Sharma, M Chandra, A.N. Sahay and Daya Shankar Pandey* (2004) “New Multifunctional Complexes [Ru(κ^3 -L)(EPh ₃) ₂ Cl] ⁺ [E = P, As; L = 2,4,6-Tris(2-pyridyl)-1,3,5-triazine] Containing both Group V and Polypyridyl Ligands” <i>Eur. J. Inorg. Chem.</i> 3555–3563.

34.	Manoj Trivedi, Manish Chandra, Daya Shankar Pandey* , M. Carmen Puerta and Pedro Valerga (2004) "Mononuclear hydridocarbonyl ruthenium complexes incorporating N ₂ O ₂ bis-chelating ligands" <i>J. Organomet. Chem.</i> 689, 879–882.
33.	Manish Chandra, Abhaya Nand Sahay, and Daya Shankar Pandey* (2004) "Synthesis and characterization of some homo/hetero binuclear hydrido carbonyl ruthenium(II) polypyridyl complexes" <i>Indian J. Chem.</i> 43A, 323–328.
2002	
32.	A. Singh, N. Singh, and Daya Shankar Pandey* (2002) "Stable Mononuclear and Binuclear Ruthenium (II) Arene Complexes with Multiple N-Donor Poly pyridyl Ligands: Synthesis Spectroscopic and Structural Characterization. Single crystal X-ray Structure of [(η^6 -C ₁₀ H ₁₄)RuCl(bppz)]BF ₄ " <i>J. Organomet. Chem.</i> 642, 48–57.
31.	M. Chandra, A.N. Sahay, Daya Shankar Pandey* , M.C. Puerta and P. Valerga (2002) "Synthetic, spectral and structural aspects of some mono and binuclear (homo/hetero)Ru(II) hydrido carbonyl complexes" <i>J. Organomet. Chem.</i> 648, 39–52.
30.	Manish Chandra, Daya Shankar Pandey , M.C. Puerta and P. Valerga* (2002) "A <i>p</i> -cymene ruthenium(II) DMSO complex [(η^6 -C ₁₀ H ₁₄)RuCl ₂ (DMSO)]" <i>Acta Cryst.</i> E58, 28–29.
29.	M.C. Puerta, P. Valerga*, and Daya Shankar Pandey (2002) "Synthetic, spectral, electrochemical and structural aspects of some Ru(II) arene complexes with some novel bridging ligands" <i>J. Organomet. Chem.</i> 648, 27–32.
28.	Manish Chandra, A.N. Sahay, Shaikh M. Mobin, and Daya Shankar Pandey* (2002) "Synthetic, spectral and structural aspects of some Rh(III) pentamethylcyclopentadiene complexes containing N,N'-donor bridging ligands" <i>J. Organomet. Chem.</i> 658, 43–49.
2001	
27.	A.N. Sahay, and Daya Shankar Pandey* (2001) "Synthesis and characterization of some mono and binuclear (η^3 : η^3 -C ₁₀ H ₁₆) containing ruthenium (IV) and Ru(IV)-Ru(II) complexes", <i>Indian J. Chem.</i> 40A, 538–543.
2000	
26.	O.S. Sisodia, A.N. Sahay, and Daya Shankar Pandey* (2000) "Synthesis and characterization of Ru(II) arene complexes [Ru(η^6 -arene)(dppm)H] ⁺ (η^6 -arene = benzene, <i>p</i> -cymene or hexamethyl-benzene), [Ru(η^6 -arene)(py) ₃] ²⁺ and [Ru(η^6 -arene)(py) ₂ Cl] ⁺ " <i>Indian J. Chem.</i> 39A, 453–456.
25.	A. Singh, A.N. Sahay, and Daya Shankar Pandey* , M.C. Puerta and P. Valerga (2000) "Synthesis and spectroscopic properties of cationic Ru(II) arene complexes [Ru(η^6 -arene)-(P)Cl(L)] ⁺ (P = PPh ₃ , PEt ₃ , MePPri ₂ and L = 4-cyanopyridine or 1,4-dicyanobenzene)" <i>J. Organomet. Chem.</i> 605, 74–81.
24.	A.N. Sahay, Daya Shankar Pandey* , and Mrinal G. Walawalkar (2000) "Synthesis and characterization of some mono and binuclear (η^3 : η^3 -C ₁₀ H ₁₆) containing ruthenium(IV) complexes. Crystal structure of [{Ru(η^3 : η^3 -C ₁₀ H ₁₆)Cl ₂ (CNPy)]" <i>J. Organomet. Chem.</i> 613, 250–256.
1999	
23.	D.K. Gupta, A.N. Sahay, and Daya Shankar Pandey* (1999) "Synthesis and characterization of [Ru(η^6 -C ₆ Me ₆)Cl ₂ (ppz)] and [Cl ₂ (η^6 -C ₆ Me ₆)Ru(μ -ppz)Ru(η^6 -C ₆ Me ₆)Cl ₂] and their reaction with EPh ₃ (E = P, As and Sb)" <i>Indian J. Chem.</i> 38A, 190–193.

22.	Daya Shankar Pandey* , A.N. Sahay, Om Singh Sisodia, N.K. Jha, Pankaj Sharma, and A. Cabrera (1999) "Synthesis, characterization and crystal structure of $[(\eta^6\text{-C}_6\text{Me}_6)\text{Ru}(\mu\text{-Cl})_3\text{Ru}(\eta^6\text{-C}_6\text{Me}_6)]\text{PF}_6$ " <i>J. Organomet. Chem.</i> 592, 278–282.
1998	
21.	Daya Shankar Pandey* , A.N. Sahay, Satyajit Pathak and D.K. Gupta (1998) "Synthesis and characterization of $[\{\text{Ru}(\eta^6\text{-C}_6\text{Me}_6)\text{Cl}_2\}_2(\mu\text{-DCBT})]$ and its reaction with EPh_3 (E = P, As, Sb), 2,2'-bipyridine and 1,10'-phenanthroline" <i>Indian J. Chem.</i> 37A, 165–168.
20.	Daya Shankar Pandey* , A.N. Sahay, Om Singh Sisodia and D.K. Gupta (1998) "Synthetic and structural studies of some pyrazine bridged Ru(II) complexes" <i>Indian J. Chem.</i> 37A, 63–66.
19.	D.K. Gupta, O.S. Sisodia, A.N. Sahay, and Daya Shankar Pandey* (1998) "Synthetic and spectroscopic aspects of some maleonitrile dithiolate complexes of Ruthenium (II)" <i>Synth. React. Inorg. & Metal-Org. Chem.</i> 28, 355–365.
18.	Daya Shankar Pandey* , O.S. Sisodia, U.C. Agarwala, N.K. Jha, Pankaj Sharma, A. Toscana, and A. Cabrera (1998) "Synthesis and Characterization of Some Arene Hydrido Complexes $[\text{Ru}(\eta^6\text{-arene})(\text{EPh}_3)_2\text{H}]^+$ ($\eta^6\text{-arene}$ = benzene, <i>p</i> -cymene or hexamethylbenzene ; E = P, As or Sb) crystal structure of $[\text{Ru}(\eta^6\text{-C}_6\text{H}_6)(\text{EPh}_3)_2\text{H}]\text{BF}_4$ " <i>J. Organomet. Chem.</i> 560, 35–40.
17.	Daya Shankar Pandey* , A.N. Sahay, D.K. Gupta, N.K. Jha, Pankaj Sharma, E. Epinosa, A. Cabrera, M.C. Puerta, And P. Valerga (1998) "Synthesis, Characterization, Reactivity and Structure of Some Mono- and Binuclear ($\eta^6\text{-p-cymene}$)Ruthenium (II) Complexes", <i>J. Organomet. Chem.</i> 568, 13–20.
1996	
16.	Daya Shankar Pandey* , K.B. Pandeya, I.P. Tripathi, and U.C. Agarwala (1996) "Reactions of $[\text{RuCp}(\text{EPh}_3)_2\text{Cl}]$ {E = P, As, Sb} with Ni (II) Complexes of N-Cyanodithiocarbamate anions bearing Pendant Donar Groups" <i>Synth. React. Inorg. & Metal-Org. Chem.</i> 26, 545–559.
15.	Daya Shankar Pandey* , K.B. Pandeya, I.P. Tripathi, and U.C. Agarwala (1996) "Synthesis and Characterization of Hetrometallic Dinuclear & Trinuclear Platinum metal complexes" <i>Synth. React. Inorg. & Metal-Org. Chem.</i> 26, 761–773.
14.	Daya Shankar Pandey* , A.N. Sahay, and U.C. Agarwala (1996) "Synthesis and characterization of $[\text{Ru}(\eta^6\text{-C}_6\text{Me}_6)\text{Cl}_2(\text{CNPy})]$ and $[\text{Cl}_2(\eta^6\text{-C}_6\text{Me}_6)\text{Ru}(\mu\text{-CNPy})\text{Ru}(\eta^6\text{-C}_6\text{Me}_6)\text{Cl}_2]$ and reactivity of $[\text{Ru}(\eta^6\text{-C}_6\text{Me}_6)\text{Cl}_2(\text{CNPy})]$ with various bases" <i>Indian J. Chem.</i> 35A, 434–437.
1995	
13.	Daya Shankar Pandey* , K.B. Pandeya* , I.P. Tripathi , and U.C. Agarwala (1995) "Synthesis of Some Binuclear Ruthenium (II) Complexes involving Chemically Non-Equivalent Ruthenium (II) Centres" <i>Synth. React. Inorg. & Metal-Org. Chem.</i> 25, 663–670.
1994	
12.	Daya Shankar Pandey* , K.B. Pandeya, I.P. Tripathi, and U.C. Agarwala (1994) "Reactions of $[\text{RuH}(\text{CO})\text{Cl}(\text{PPh}_3)_3]$ with imidazole, 2-methylimidazole, 2-ethylimidazole, pyrazole" <i>Indian J. Chem.</i> 33A, 354–356.
1993	
11.	Daya Shankar Pandey* , K.B. Pandeya, I.P. Tripathi, and S. Titus (1993) "Synthesis of some Bimetallic Trinuclear $[\text{Ru}(\text{II})\text{-Ni}(\text{II})\text{-Ru}(\text{II})]^{2+}$ complexes" <i>J. Indian Chem. Soc.</i> 70, 959–965.
1991	

10.	Daya Shankar Pandey , and U.C. Agrawala* (1991) "N-Acetyl- <i>dl</i> -Penicillamine Thionitrite: A Potential Nitrosylating Agent" <i>Synth. React. Inorg. & Metal-Org. Chem.</i> 21, 361–374.
9.	Daya Shankar Pandey , R.L. Mishra, and U.C. Agrawala* (1991) "Reactivity of [Ru(η^5 -C ₅ H ₅)Cl(L ₂)] {L ₂ =(PPh ₃) ₂ , (AsPh ₃) ₂ , (SbPh ₃) ₂ , PPh ₂ (CH ₂) ₂ PPh ₂ and (PPh ₂) ₂ CH ₂ } with <i>p</i> -phenylenebis(picolinealdamine): Synthesis and Spectral properties of [{Ru(η^5 -C ₅ H ₅)-L ₂] ₂ PBP] ²⁺ " <i>Indian J. Chem.</i> 30A, 41–44.
1990	
8.	Daya Shankar Pandey , A. Mishra, and U.C. Agrawala* (1990) "Reactions of [RuH(CO)Cl(EPh ₃)] (E = P, As) with 1-piperidinecarbonitrile and 1,4-piperazinedicarbonitrile in the presence of anions (BF ₄ ⁻ , PF ₆ ⁻ , BPh ₄ ⁻)" <i>Inorg. Chim. Acta.</i> 172, 13–18.
7.	Lallan Mishra, Daya Shankar Pandey , and U.C. Agarwala* (1990) "Metal Nitrosyls as Antimicrobial Agents" <i>Bull. Chem. Soc. Japan.</i> 63, 3061–3062.
6.	A. Mishra, Daya Shankar Pandey , K. Mishra, and U.C. Agrawala* (1990) "Reactions of 1-ethynylpyrene with cyclopentadienyl ruthenium complexes" <i>Indian J. Chem.</i> 29A, 251–254.
5.	Daya Shankar Pandey , A. Mishra, R.L. Mishra, and U.C. Agrawala* (1990) "Reactions of [RuH(CO)Cl(EPh ₃) ₃] (E = P, As) and [Ru(η^5 -C ₅ H ₅)ClL ₂] (L ₂ = (PPh ₃) ₂ /(AsPh ₃) ₂ , dppe, dppm) with 4-cyanopyridine, 1,4-dicyanobenzene and 1,4-dicyanobutene" <i>Polyhedron</i> 9, 2153–2162.
1989	
4.	Daya Shankar Pandey , and U.C. Agrawala* (1989) "Tributyl Thionitrite: A Potential Transfer Nitrosating Agent for Metal Nitrosylation" <i>Inorg. Chim Acta</i> 159, 197–200.
3.	Daya Shankar Pandey , and U.C. Agrawala* (1989) "Nitrosothiourea: It's Reactivity with metal ions and their complexes" <i>Polyhedron</i> 8, 953–958.
1987	
2.	Daya Shankar Pandey , S.K. Saini, and U.C. Agarwala* (1987) " <i>In-Situ</i> trapping of NO: Application of S-nitroso derivatives for metal nitrosyls synthesis" <i>Bull. Chem. Soc. Japan</i> 60, 3031–3033.
1.	Daya Shankar Pandey , M.I. Khan, and U.C. Agarwala* (1987) "Alkyl Nitrites as Nitrosylating Agents" <i>Indian J. Chem.</i> 26A, 570–573.

Ph. D. Supervision. Completed: 20; Submitted: 00 In progress: 04

Completed: 19,			
No.	Name of the candidate	Ph.D. Thesis title/ Completed	Year
1	Dr. Om Singh Sisodia	Synthetic and Structural Aspects of Some Ru(II) Bridged Complexes Containing N-Donor Hetero-cyclic Molecules.	1999
2.	Dr. Dharmendra Gupta	Synthesis and Reactions of Polynuclear Ru(II) Complexes	2000
3	Dr. Manish Chandra	Synthetic, Spectral and Structural Aspects of Some Hydrido-Carbonyl Ru(II) Complexes.	2003
4.	Dr. Anupam Singh	Synthetic and Structural Aspects of some Ruthenium Arene Complexes Containing	2003

		Novel Bridging Ligands with Multiple Nitrogen Donor Sites.	
5.	Dr. Sanjay Kumar Singh	Synthetic, Spectral and Structural Aspects of Some Ruthenium and Rhodium Complexes Containing N,N- and N,O- Donor Ligands.	2007
6.	Dr. Sanjeev Sharma,	Potential Metalloligands: Ru(II) Polypyridyl Complexes $[\text{Ru}(\eta^3\text{-L})\text{P}_2\text{Cl}]^+$ (L = polypyridyl ligands; P = mono/ bis-phosphines).	2007
7.	Dr. Manoj Trivedi	Synthetic, Spectral and Structural Aspects of Some Ru(II) Polypyridyl Complexes	2007
8	Dr. Santosh Kumar Dubey	Studies of ruthenium polypyridyl complexes containing heterocycles as co-ligands: synthesis, characterization and bioactivities.	2008
9.	Dr. Mahendra Yadav	Synthesis and characterization of some organometallic compounds based on <i>meso</i> -substituted dipyrins	2010
10.	Dr. Sudhakar Dhar Dwivedi	Ruthenium, rhodium and iridium complexes based on polypyridyl and pyridylazine ligands.	2010
11.	Dr. Ashish Kumar Singh	Synthetic structural and spectral aspects of some 3d metal complexes based on substituted imida-zolyl ligands.	2011
12.	Dr. Rampal Pandey	Reactivity of polypyridyl ligands with some first row transition metal ions	2012
13	Dr. Prashant Kumar	Synthetic, spectral and structural characterization of ruthenium complexes imparting both poly-pyridyl and group 15 donor ligands	2012
14.	Dr. Rakesh Kumar Gupta	Synthetic, spectral, structural and applicative aspects of some transition metal complexes based on <i>meso</i> -substituted dipyrins	2015
15.	Mr. Amit Kumar Shukla	Synthesis, Spectral and Structural Aspects of some Transition Metal Complexes based on N,O- Donor ligands and their Applications.	2016.
16.	Mrs. Roop Shikha Singh	Designing and Development of Some New Functional Luminescent Materials	2016

17.	Mr. Ashish Kumar	Multifaceted Aspects of Some Amino-carboxylate Derived Ligands and Their Complexes: Structural, Spectral and Theoretical Studies	2016
18.	Mr. Arnab Biswas	Various Aspects of erpyridyl Based Complexes in Metallogelation	2017
19.	Mr. S. Mukhopadhyay	Synthetic, Structural, and Applicative Aspects of Some Cyclometalated Rh(III), Ir(III), Pd(II) Complexes	2017
20.	Mr. Rajendra P Paitandi	Synthesis and characterization of dipyrromethane complexes	2018
Ph. D. (Under progress): 05			
1.	Mr. Bhupendra K Dwivedi	Synthesis characterization, structural and photo-physical/-photochemical properties of some metal dipyrin complexes	Reg. Sept 2014
2.	Mr. Vishwa Deepak Singh	Designing and synthesis of some luminescent transition metal complexes and their possible application	Reg. Sept 2015
3.	Mr. Yogesh Kumar	Photophysical and Applicative aspects of BODIPY based transition metal complexes.	Reg. March, 2017
4	Mr. Nikhil Singh	Designing and development of BODIPY based luminescent materials.	Reg. Sept. 2017
M. Phil. Completed; 07 (At APS University, Rewa)			
1.	Ms. B. Suvarnalatha	Reaction of $[\text{Ru}(\eta^5\text{-C}_5\text{H}_5)(\text{EPh}_3)_2\text{Cl}]$ (E=P, As) with phenazine in presence of suitable anions $\{\text{PF}_6^-, \text{BPh}_4^-, \text{and ClO}_4^-\}$	1993
2.	Mr. Rajiv Kumar Sharma	Reaction of $[\text{Ti}(\eta^5\text{-C}_5\text{H}_5)_2\text{Cl}_2]$ with 4-cyanopyridine; 1,4-piperazine dicarbonitrile and 1-piperazinedicarbonitrile in presence of suitable anions $[\text{PF}_6^- \text{ and } \text{BPh}_4^-]$	1994
3.	Mr. Rajendra Prasad Tiwari,	Reaction of $[\text{Zr}(\eta^5\text{-C}_5\text{H}_5)_2\text{Cl}_2]$ with 4-cyanopyridine; 1,4-piperazinedicarbonitrile and 1-piperazinedicarbonitrile in presence of suitable anions $[\text{PF}_6^- \text{ and } \text{BPh}_4^-]$	1994
4.	Mr. Dharmendra Kumar Gupta,	Synthetic and structural aspects of some maleonitrile dithiolate complexes of ruthenium(II).	1995

5.	Mr. Om Singh Sisodiya,	Synthetic and structural aspects of some pyrazine bridged ruthenium(II) complexes.	1995
6.	Mr. Satyajit Pathak,	Reactivity of $[\{Ru(\eta^6-C_6Me_6)Cl_2\}_2]$ with 1,4-dicyano- <i>trans</i> -2-butene and substitution reactions of $[\{Ru(\eta^6-C_6Me_6)Cl_2\}_2(\mu-DCBT)]$	1996
7.	Mr. Rejesh Kumar Verma,	Reactivity of some Ru and Rh arene complexes with 4-cyanophenylimidazole	1998

Sponsored Projects. (As sole investigator) **Completed: 13** **In progress: 01**

Completed: 12			
S. No	Title of the Project and Sanction No.	Total amount of grant	Period/Duration
1	Stabilization of "SO" by Platinum Metal Complexes. (MPCST, Bhopal, C-87/90)	Rs.1,05,000.00	03 years, completed, April 30, 1994
2	Synthesis and characterization of NS ⁺ NSO ⁻ containing Platinum Metal Complexes. (DST New Delhi, SR/OY/C-20/90, DST Scheme for Young Scientists)	Rs.1,68,000.00	02 years, completed, March 31, 1994.
3	Reactions of $[\{Ru(\eta^6-C_6Me_6)Cl_2\}_2]$ with Nitriles, Acetylenes and other Bridging ligands. (CSIR, New Delhi, HRDG 01(1231)/92/EMR-II)	Rs.3,52,434.00	03 years 04 months, completed, Sep. 30, 1995.
4	Synthetic, structural and catalytic Aspects of some Ru(IV) and Ru(II) bridged complexes (CSIR, New Delhi, HRDG 01(1375)-/95/EMR-II)	Rs.5,00,000.00	03 years 04 months, completed, March 31, 1999.
5	Synthetic and Structural Aspects of Some Ru(II) Hydridocarbonyl Complexes with Dithiolato ligand. (UGC, F 12-21/97)	Rs.4,00,000.00	03 years, completed, Dec. 31, 2000
6	Synthetic Spectroscopic, Electro-chemical and Structural Aspects of Some Ruthenium–Arene Complexes Containing Novel Bridging Ligands with Multiple Nitrogen Donor sites. (CSIR, New Delhi HRDG 01(1587)/99/EMR-II)	Rs.9,00,000.00	03 years, completed, April 2002.

7	Synthetic, spectral and structural characterization of “ <i>Piano stool</i> ” arene complexes with co-ligands (DST New Delhi, SP/S1/F-04/2000)	Rs.15,54,600.00	03 years, completed, May 31, 2005.
8	Ruthenium (II) Polypyridyl Complexes $[Ru(\eta^6\text{-arene})(L)Cl]^+$: Potential <i>Metallo-ligands</i> for <i>Supramolecular Systems</i> . (CSIR, New Delhi, HRDG 01(1784)/02/EMR-II)	Rs.9,94,000.00	03 years, completed on Oct. 02, 2005.
9	Construction of extended solids based on <i>meso</i> -substituted dipyrromethanes (CSIR, New Delhi, HRDG 01(2074)/06/EMR-II)	Rs.12,00,000.00	03 years, completed, Nov. 30 2009.
10	New ruthenium poly-pyridyl complexes with multi-faceted value (DST New Delhi, SR/S1/IC-15/2006)	Rs. 23,82,000.00	03 years, completed, March 31, 2010;
11.	Synthesis of some homo/hetero-binuclear complexes containing dipyrin ligands (CSIR, New Delhi, 01(2361)/10/EMR-II)	Rs. 18, 00, 00.00	03 years, completed, July, 2013.
12.	Synthesis and Characterization of Some Dipyrinato Complexes and Their Photophysical Properties (DST New Delhi, SR/S1/IC-15/-2011)	Rs. 44, 00,000.00	03, years, completing, Sept, 30, 2015
13.	Synthesis, properties, and bio-catalytic activity of some dipyrinato complexes containing $(\eta^6\text{-arene})Ru$ -, $(\eta^5\text{-C}_5\text{Me}_5)Rh$ -/Ir- moieties, and ligands having multiple dipyrin units. (CSIR, New Delhi, 01(2791)/14/-EMR-II)	12,00,000=00 + Admissible overhead charges as per CSIR rules	March, 2018
Ongoing: 01			
1.	Designing and synthesis of metal based aggregation induced emission (AIE) luminogens and their properties. (SERB, New Delhi, EMR/2015-/001535)	~80,00,000=00	March, 2016

Invited lectures (2003- onwards).

1.	Metallo-ligands in supramolecular systems, National Symposium on Chemistry from
----	---

	Molecules to Supramolecules, BHU, Varanasi, Feb. 28-Mar. 01, 2003 .
2.	Synthetic, spectral, structural and bio-catalytic aspects of some ruthenium(II) polypyridyl complexes, MTIC (X) Indian Institute of Technology, Bombay, Mumbai, Dec. 15-17, 2003 .
3.	Ruthenium (II) poly-pyridyl and pyridylazine complexes: Synthetic, spectral and structural aspects, Modern Trends in Fullerene, Calixarene and Crown Ethers, University of Ahmedabad, 27-28 Feb. 2004
4.	New metallo-intercalators based on ruthenium polypyridyl complexes, Friday Forum Seminar, Medicinal and Process Chemistry Division, CDRI Lucknow, Aug. 20, 2004 .
5.	New metallo-intercalators: Ruthenium pyridylazine and polypyridyl complexes, 23 rd Indian Council of Chemists Convention, K.C. College Mumbai, Oct. 29-31, 2004 .
6.	Synthesis, spectral and structural aspects of arene ruthenium complexes, 7 th CRSI National Symposium in Chemistry, Indian Association for the Cultivation of Science, Kolkata, Feb. 4-6, 2005 .
7.	Some aspects of arene ruthenium chemistry, Research Institute for Ubiquitous Energy Devices, National Institute of Advanced Industrial Science and Technology (AIST), Osaka, Japan April 27, 2005 .
8.	Arene ruthenium complexes: Potential bio-catalysts, Birla College of Science, Arts and Commerce, Kalyan, Mumbai, 23 rd Indian Council of Chemists Convention, Dec 27-29, 2006
9.	Ruthenium(II) polypyridyl Complexes: Potential Precursors, Metallo-ligands and Bio-catalysts, UGC Refresher course in Chemistry, BHU Varanasi Dec. 17, 2007
10.	Arene ruthenium complexes: Potential bio-catalysts, Gorakhpur University, Sept. 27, 2008
11.	Application of arene ruthenium complexes, UGC Refresher course in Chemistry, BHU Varanasi, Sept. 27, 2008 .
12.	Homo- and heteroleptic dipyrin complexes, IV th Mid Year CRSI Meeting, SGSITS, Indore, July 23, 2009 .
13.	Homo- and heteroleptic dipyrin complexes, National Symposium of Modern Trends Inorganic Chemistry, Indian Institute of Science, Bangalore, Dec. 9, 2009 .
14.	Symmetry and its examples, UGC Refresher course in Chemistry, BHU Varanasi, Feb. 25, 2010 .
15.	Bio-catalysts based on Platinum Group Organometallic Complexes, IIT Kanpur, Oct. 2010 .
16.	Bio-catalysts based on Platinum Group Organometallic Complexes, Jamia Milia Islamia Univeristy, Delhi, March 22, 2011 .
17.	Homo and Heteroleptic Dipyrin Complexes, Lucknow University, Lucknow, March 25, 2011 .
18.	Bio-catalysts based on Platinum Group Organometallic Complexes, Jadavpur Univeristy, Kolkata, July 9, 2011 .
19.	Some interesting aspects of chromene based borondifluoride dipyrinato and related complexes, ACCC-3, New Delhi, Oct. 17-20, 2011 .

20.	Some interesting aspects of symmetry, Lecture series organized by Academy of Sciences, India Jayaraj Annapakiam College for Women (Autonomous) Periyakulam Tamilnadu, Dec. 15, 2011
21.	Biocatalysts based on platinum group organometallic complexes, Lecture series organized by the Academy of Sciences, India, Jayaraj Annapakiam College for Women (Autonomous) Periyakulam Tamilnadu, Dec. 15, 2011, Dec. 15, 2011
22.	Organometallic compounds as optical sensors, International conference and Humboldt Kolleg on Recent Aspects of Organic/Organometallic compounds in Materials and Industries, Lucknow University, Lucknow, Jan-3-6, 2012 .
23.	Symmetry: General Aspects, Academic Staff College, BHU, Varanasi, March 23, 2012 .
24.	Organometallic compounds as optical sensors, 12 th ICPAC, University of Mauritius, Mauritius, July 2-6, 2012 .
25.	Organometallic compounds as optical sensors, CRSI Mid Year Meeting, CDRI Lucknow, July, 21-22, 2012 .
26.	Synthesis and optical properties of dipyrromethene complexes, Indian Institute of Technology, Indore, August 24, 2012 .
27.	Syntheis and optical properties of dipyrromethene complexes, University of Tezpur, Tezpur, Assam, Nov. 06, 2012 .
28.	Some interesting aspects of Ferrocenyldipyrromethane, Indian Institute of Technology, Mumbai, Oct.03, 2013 .
29.	Some Interesting Aspects of Homo-/Heteroleptic Dipyrinato and Related Complexes Natioanl Symposium of Modern Trends in Inorganic Chemistry, Indian Institute of Technology, Roorkee, Dec. 14, 2013 .
30.	Some Interesting Aspects of Homo-/Heteroleptic Dipyrinato and Related Complexes Kyushu University, Japan, April 16, 2014 .
31.	From Metal Complexes to MOF Targeted Approach Towards Desulfurization, AIST, Osaka, Japan, April 18, 2014 .
32.	Anti Cancer Agents Based on Arene Ru(II), Rh(III) and Ir(III) Dipyrinato Complexes Nagoya University, Japan, April 23, 2014
33.	Various Aspects of 5-Ferrocenyl Dipyrinato Complexes Osaka University, Japan, April 25, 2014 .
34.	Ferrocene Based Receptors for Heavy and Transition Metal Ions Tokyo Institute of Technology, Yokohama, Japan, May, 19, 2014 .
35.	Supramolecular Inorganic Gels, University of Mumbai, ISCA Platinum Jubilee Lecture, Jan 04, 2015 .
36.	Anti Cancer Agents Based on Arene Ru(II), Rh(III) and Ir(III) Dipyrinato Complexes UP (Autonomous) College Varanasi (Under Indian Academies Lecture Series) Feb. 21, 2015 .
37.	Supramolecular Inorganic Gels, UP (Autonomous) College Varanasi (Under Indian Academies Lecture Series) Feb. 21, 2015 .
38.	Various aspects of heavy metals and their implications, Government Girls College Satna, (M.P.) Oct 12, 2015 .
39.	Inorganic Gels, Indian Institute of Technology, Indore, April 14, 2016 .
40.	Aggregation Induced Emission: Optical and Morphological Insights, 27 th Mid-Year

	Meeting Indian Academy of Sciences, Bangalore, July 02, 2016 .
41.	Various aspects of group 12 metals and their implications; Feb. 11, 2017 , NASI-BHU Teachers Training Workshop, BHU Varanasi.
42.	Inorganic Gels; Feb 18, 2017 , Bhartidasan University, Tiruchirapalli, Tamilnadu.
43	20 th International Conference of International Academy of Physical Sciences, Osmania University Hyderabad, July 14, 2017 .
44	Various aspects of metallogelators; VHNSN College Virudhunagar; Madurai, Tamilnadu, June 23, 2017 .
45	Interesting Aspects of Low Molecular Weight Gelators, University of Delhi, Oct, 2017
46	Anticancer activity of Ru(II), Rh(III) and Ir(III) complexes, 21 st International Conference of International Academy of Physical Sciences, GJ Univ. of Sci. & Tech., Hisar, Haryana, October 29, 2017 .
47	Group 12 metals in our life, Prayag Institute of Technology and Management, Allahabad, Nov. 02, 2017 .
48.	Group 12 metals in our life, Awadhesh Pratap Singh University, Rewa. Dec. 02, 2017
49.	Interesting Aspects of Low Molecular Weight Gelators, 54 th Annual Convention of Chemists, Uka Tarsadia University, Bardoli, Surat. Dec. 23, 2017 .
50.	Metal Toxicity: A case study on mercury poisoning; Awadhesh Pratap Singh University, Rewa. Jan. 16, 2019 .

Professional Memberships.

i)	Awarded Member (03 years), American Chemical Society.
ii)	Life member, Chemical Research Society of India, IISc, Bangalore (LM 449).
iii)	Life member, Indian Association of Solid State Chemists & Allied Sciences, Jammu.
iv)	Life member, Society for Materials Chemistry (LM 646) BARC, Mumbai.
v)	Life member, Indian Science Congress Association, Kolkata (L 25597)
vi).	Life member, Indian Chemical Society, Calcutta (L M 3256).

Have been working as reviewer from time to time for:

i) Catalysis Communications, ii) Crystal Growth & Design, iii) European Journal of Inorganic Chemistry, iv) Indian Journal of Chemistry v) Inorganic Chemistry, vi) Inorganic Chemistry Communications, vii) Inorganica Chimica Acta, viii) Journal of Molecular Structure, ix) Journal of Organometallic Chemistry, x) Journal of Organic Chemistry, xi) Organometallics, xii) Spectrochim Acta A., xiii) Journal of Photochemistry & Photobiology etc.

Achievement by the students

SRF, CSIR New Delhi. (2003-10)

i) Mr. Manish Chandra. ii) Mr. Anupam Singh, iii) Mr. Santosh K Dubey, iv) Mr. Manoj Trivedi, v) Mr. Sanjay K. Singh, vi) Mr. Sanjeev Sharma, vii) Mr. Mahendra Yadav, viii) Mr. Rampal Pandey

SRA/ RA, CSIR New Delhi. (2003-10)

i) Dr. Abhaya Nand Sahay (RA and SRA both), ii) Dr. Nagendra Singh, iii) Dr. Santosh K. Dubey

Young Scientist Awards

i) A.K. Dey Young Scientist Award, *Indian Chemical Society* to Dr. Manish Chandra, (2000), ii) Award for Young Scientists, *M. P. Council of Science and Technology, Bhopal*, Dr. Anupam Singh (2001), iii) Young Scientists Award, *Indian Science Congress Association*, Mr. Manish Chandra (2003)

Dr. D.S. Kothari Fellowships U G C. New Delhi

i) Dr. Santosh K, Dubey (2008), ii) Dr. Manoj Trivedi (2008), iii) Dr. Mrigendra Dubey, (2012), iv) Dr. Anup Pal (2012), v) Dr. Afsar Ali (2014)

DST Fast-Track Project, DST New Delhi

i) Dr. Manoj Trivedi (2012), ii) Dr. Radhey Shyamji (2014), iii) Ashish Kumar Singh (2015)

SERB, N-PDF

i) Mr. Amit Kumar (2016), ii) Mr. Sujoy Mukhopadhyaya (2017), iii) Arnab Viswas (2017)

INSA INSPIRE Faculty

i) Dr. Rampal Pandey (2013), ii) Dr. Mrigendra Dubey (2014), iii) Dr. Ashish Kumar Singh (2016)

JSPS PDF Fellowship, Japan

i) Dr. Manish Chandra (2003), ii) Dr. Sanjay Kumar Singh (2008), iii) Dr. Mahendra Yadav (2010), iv) Dr. Ashish Kumar Singh (2011), v) Dr. Rakesh Kumar Gupta (2015), vi) Dr. Amit Kumar (2015), vii) Dr. Prashant Kumar (2016), viii) Dr. Ashish Kumar (2017).

AvH Fellowship, Germany

i) Dr. Sanjay Kumar Singh (2010)

DAAD Bridge Fellowship, Germany

i) Mr. Prashant Kumar (2010)

IEF Marie Curie Fellowship

i) Dr. Prashant Kumar (2012)

INDO-US Fellowship

i) Dr. Roop Shikha Singh (2017)

“It is noteworthy to mention here that **eight (08)** of my students have been awarded **most competitive and prestigious** JSPS Post-Doctoral Fellowship by the **Japan Society for Promotion of Science**, It may be a record for bagging these many Fellowships from a single research group in the country”.

(D.S. Pandey)