Proforma for information to be provided by the Teaching/ Academic/ Research Staff

1. Name: Daya Shankar Pandey

2. Designation: Professor

3. Academic Qualifications:

Sr.No.	Degree	Institution	Year
1.	Ph.D.	Indian Institute of Technology, Kanpurm (U.P.), India	1989
2.	M.Sc	Avadh University, Faizabad (U.P.), India	1983
3.	B.Sc	Avadh University, Faizabad (U.P.), India	1981
4.	Intermediate	Board of High School and Intermediate Education, Allahabad, (U.P.), India	1978
5.	High School	Board of High School and Intermediate Education, Allahabad, (U. P.) India	1976

4. Area of Specialization: (brief write up, 200 words)

Daya Shankar is an active researcher in the area of Coordination and Organometallic Chemistry. Considering stability of arene ruthenium and structurally analogous rhodium and iridium complexes he started working in this area and successfully designed and synthesized numerous systems which find wide applications as excellent synthon, catalysts and DNA cleaving agents. After shifting to BHU Varanasi (**Dec. 2005**) he set out to develop organometallic chemistry of dipyrrins and BODIPY analogues exhibiting excellent photophysical properties which have shown great promise as multi-channel sensor, anticancer agents, and excellent capping agents for Au/Ag nanoparticles. Recently, he came up with the idea of applying metallacycles/-polynuclear metal complexes as efficient probe for various species including ADP, ATP etc**.** In addition, he has developed functional group specific chiral and achiral gels arising from J-aggregation exhibiting interesting properties**.** After thorough investigations on solution phase luminescence at molecular level, he has explored light-emitting processes in the solid state mainly through aggregation induced emission (AIE) and has established that optical control can be brought about by simple modifications in pendant groups of luminogen skeleton leading to promising applications in opto-elctronics and biomedicine.

5. Contact Information:

A. Office: Dr. Daya Shanakr Pandey
Professor

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Banaras Hindu University
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Banaras Hindu University
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6. Projects Undertaken as PI/ Co PI: *(As sole investigator)* **Completed:** 12 **In progress:** 02

Completed:			
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 $[\{Ru(\eta^6\text{-}C_6Me_6)Cl_2\}_2]$ 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(IV), 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 Structual 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 "*Piano stool"* 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 *Metallo-ligands* for *Supra-molecular Systems*. **(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 *meso*-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 dipyrrin 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 Dipyrrinato Complexes and Their Photophysical Properties **(DST New Delhi, SR/S1/IC-15/-2011)**	Rs. 44, 00,000.00	03, years, completing, Sept, 30, 2015
Ongoing: 02			
1.	Synthesis, properties, and bio-catalytic activity of some dipyrrinato complexes containing $(\eta^6\text{-arene})Ru$-, $(\eta^5\text{-}C_5Me_5)Rh$-/Ir- moieties, and ligands having multiple dipyrrin units. **(CSIR, New Delhi, 01(2791)/14/-EMR-II)**	12,00,000=00 + Admissible overhead charges as per CSIR rules	March, 2015
2.	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

7. Awards/ Recognitions if any:

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

ii) Professor Priyadaranjan 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

8. List of 10 major Publications: (in order of importance)

1). 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" ***J. Phys Chem C***, 22, 5178–5187.

2). Sujay Mukhopadhyay, Roop Shikha Singh, Arnab Biswas and Daya Shankar Pandey (**2016**) "Photochemical water oxidation by cyclometalated iridium(III) complexes: A mechanistic insight" ***Chem. Commun***. 52, 3840–3843.

3). Ashish Kumar, Roop Shikha Singh, Amit Kumar, Afsar Ali, Arnab Biswas, and Daya Shankar Pandey (**2016**) "Fine-Tuning Saponification Triggered Gelation by Strategic Modification of Peripheral Substituents: Gelation Regulators" ***Chem. Eur. J***. 22, 13799–13804.

4). Ashish Kumar, Mrigendra Dubey, Amit Kumar, and Daya Shankar Pandey (**2014**) "Saponification Triggered Gelation in a Typical Zn(II) Complex Assisted Through Conformational Transformation" ***Chem. Commun.*** 50, 10086–10089.

5). 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" ***Chem. Commun.*** 50, 8144–8147.

6). 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" ***Chem. Commun***. 50, 1675–1677.

7). Rakesh Kumar Gupta, Rampal Pandey, Sanjeev Sharma, and Daya Shankar Pandey (**2012**) "Synthesis of Electroactive Multinuclear Dipyrrinato Complexes and Fe(III) Assisted Formation of □-Alkoxy Substituted 5-Ferrocenyldipyrromethenes" ***Dalton Trans.*** 41, 8556–8566.

8). Rakesh Kumar Gupta, Rampal Pandey, Sanjeev Sharma, and Daya Shankar Pandey (**2012**) "Synthesis of Electroactive Multinuclear Dipyrrinato Complexes and Fe(III) Assisted Formation of □-Alkoxy Substituted 5-Ferrocenyldipyrromethenes" ***Dalton Trans.*** 41, 8556–8566.

9). Mahendra Yadav, Ashish Kumar Singh, and Daya Shankar Pandey (**2009**) "First examples of heteroleptic dipyrrin/η^5-pentamethylcyclopentadienyl rhodium-/iridium(III) complexes and their catalytic activity"***Organometallics*** 28, 4713–4723.

10). Sanjay K. Singh, Manoj Trivedi, M. Chandra, Abhaya N. Sahay and Daya Shankar Pandey (**2004**) "Luminescent *piano-stool* complexes incorporating 1-(4-cyanophenyl)imidazole*:* Synthesis, Spectral and Structural studies" ***Inorg. Chem.*** 43, 8600–8608.

9. Additional Information/ Achievements:

Achievement by my 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 Cahndra, (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) Radhey Shyamji (2014), iii) Ashish Kumar Singh (2015)

SERB, N-PDF

i) Mr. Amit Kumar (2016), ii) Mr. Sujoy Mukhopadhayaya (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)

10. Full 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" ***Coord. Chem. Rev***. 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" ***Chem. Soc. Rev***. 43, 707–733.
3.	Sanjay Kumar Singh, and **Daya Shankar Pandey*** (**2014**) "Biologically active half-sandwiched arene-ruthenium complexes" ***RSC Adv.*** 4, 1819–1840.

b) Technical Articles

	2018
141	Bhupendra Kumar Dwivedi, Vishwa Deepak Singh, Rajendra Prasad Paitandi, and **Daya Shankar Pandey*** (**2018)** Substituent Directed ESIPT Coupled AIE in NIR Emitting Quinazoline Derivatives"" ***Chem.Phys Chem*** DOI: 10.1002/cphc.201800579
140	Vishwa Deepak Singh, Rajendra Prasad Paitandi, Bhupendra Kumar Dwivedi, Roop Shikha Singh, and **Daya Shankar Pandey*** (**2018**) "Bis-cyclometalated Iridium(III) Complexes Involving Functionalized Terpyridine Based Ligands Exhibiting Aggregation Induced Emission and Their Potential Applications in CO_2 Detection" ***Dalton Trans*** MS ID: DT-ART-04-2018-001512 (***under revision***)
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" ***ACS Omega***, 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" ***Dalton Trans.*** 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" ***J. Phys Chem C***, 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" ***Inorg. Chem***. 56, 12232–12247.
135	Sujay Mukhopadhyay, Kheyanath 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" ***Chemistry Select***, 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" ***Dalton Trans***, 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" ***Dalton Trans***, 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" ***J. Lumin.*** 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" ***Biomedicine & Pharmacotherapy***, 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" ***Inorg. Chim. Acta***, 454C, 117–127.
	2016
129	Roop Shikha Singh, Ashish Kumar, Sujay Mukhopadhyay, Gunjan Sharma, Biplob Koch, **Daya Shankar Pandey*** (**2016**) "An Unconventional Mechanistic Insight on Aggregation Induced Emission in Novel Boron Dipyrromethenes and Their Rational Biological Realizations" ***J. Phys. Chem. C***, 120, 22605−22614.
128	Ashish Kumar, Roop Shikha Singh, Amit Kumar, Afsar Ali, Arnab Biswas, and **Daya Shankar**

	Pandey* (**2016**) "Fine-Tuning Saponification Triggered Gelation by Strategic Modification of Peripheral Substituents: Gelation Regulators" ***Chem. Eur. J***. 22, 13799–13804.
127	Sujay Mukhopadhyay, Roop Shikha Singh, Arnab Biswas and **Daya Shankar Pandey*** (**2016**) "Molecular and Nanoaggregation in Cyclometalated Iridium(III) Complexes through Structural Modification" ***Eur. J. Inorg. Chem***. 4199–4206.
126	Arnab Biswas, Sujay Mukhopadhyay, Roop Shikha Singh and **Daya Shankar Pandey*** (**2016**) "Small Organic Non-gelators Evincing Radical Control over Morphology and Rheology of a Weak Metallogel" ***Chemistry Select***, 1, 1904–1909.
125.	Amit Kumar, Ashish Kumar, and **Daya Shankar Pandey*** (**2016**) "N,N-diethylamine appended binuclear Zn(II) metallacycle; A highly selective fluorescent chemosensor for picric acid" ***Dalton Trans***. 45, 8475–8484.
124	Rakesh Kumar Gupta, Vinod Kumar, Anchal Srivastava, and **Daya Shankar Pandey*** (**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)" ***RSC Adv***. 6, 40911– 40915.
123	Rakesh Kumar Gupta, Amit Kumar, Rajendra Prasad Paitandi, Roop Shikha Singh, Sujay Mukhopadhyay, Shiv Prakash Verma, Parimal Das, and **Daya Shankar Pandey*** (**2016**) "Heteroleptic arene Ru(II) dipyrrinato complexes: DNA, protein binding and anti-cancer activity against ACHN cancer cell line" ***Dalton Trans***. 45, 7163–7177.
122.	Arnab Biswas, Mrigendra Dubey, Sujay Mukhopadhyay, Ashish Kumar, and **Daya Shankar Pandey*** (**2016**) "Anion Triggered Metallogel: Demetalated Crystal Growth inside and Improvement of Viscoelastic Properties Using Au-NPs" ***Soft Matter***, 12, 2997–3003.
121	Sujay Mukhopadhyay, Roop Shikha Singh, Arnab Biswas and **Daya Shankar Pandey*** (**2016**) "Photochemical water oxidation by cyclometalated iridium(III) complexes: A mechanistic insight" ***Chem. Commun***. 52, 3840–3843.
120	Roop Shikha Singh, Sujay Mukhopadhyay, Arnab Biswas, and **Daya Shankar Pandey*** (**2016**) "Exquisite 1D Assemblies Arising from Rationally Designed Asymmetric Donor–Acceptor Architectures Exhibiting Aggregation-Induced Emission as a Function of Auxiliary Acceptor Strength" ***Chem. Eur. J.*** 22,753–763.
119	Amit Kumar, Rakesh Kumar Gupta, Ashish Kumar, Rajendra Prasad Paitandi, Krishna Beer Singh, Surendra Kumar Trigun, Maninder Singh Hundal,and **Daya Shankar Pandey*** (**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" ***J. Organomet. Chem***. 801, 68–79.
2015	
118	Mrigendra Dubey, Ashish Kumar, Vishal M Dhavale, Shreekumar Kurungot, and **Daya Shankar Pandey*** (**2015**) "Can enantiomer ligands produce structurally distinct homochiral MOF" ***Cryst Eng Comm.*** 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 **Daya Shankar Pandey*** (**2015**) "Synthesis, Structure, DNA/Protein Binding, and Anticancer Activity of some Half Sandwich Cyclometalated Rh(III) and Ir(III) Complexes" ***Organometallics***, 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" ***RSC Advances***, 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" ***Dalton Trans***. 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 *via* structural modulations in AIE luminogens with least possible variables and their use in live cell imaging"

	Chem. Commun. 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+}" ***Dalton Trans***. 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" ***New J. Chem***. 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 Dipyrrinato Complexes having *meso*-Pyridyl Substituents and Their Catalytic Applications" ***Inorg. Chem***. 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 Hg2+ and Al3+ in aqueous media" ***RSC Adv***. 4, 55967–55970.
109	Anup Paul, Rakesh Kumar Gupta, Mrigendra Dubey, Gunjan Sharma, Biplab 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" ***RSC Adv.*** 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" ***Chem. Commun.*** 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" ***Chem. Commun.*** 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" ***Chem. Commun.*** 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) dipyrrinato complexes with DNA/protein, molecular docking and antitumor activity" ***Eur. J. Med. Chem***. 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" ***Dalton Trans***. 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" ***Inorg. Chem***. 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" ***Dalton Trans***. 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+}" ***Tet. Lett***. 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" ***Chem. Commun***. 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 dipyrrinato copper(II)

	complexes" ***Inorg. Chim. Acta*** 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" ***Tet. Lett.*** 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 *in-vitro* Anti-cancer Activity of some Thioether-Dipyrrinato Complexes" ***Inorg. Chem***. 52, 13984–13996.
96	Arnab Biswas, Rampal Pandey, Divya Kushwaha, Mohammad Shahid, Vinod Kumar Tiwari, Arvind Misra, and **Daya Shankar Pandey*** (**2013**) "Glycosyl based *meso*-substituted dipyrromethanes as fluorescent probes for Cu^{2+}/Cd^{2+} ions" ***Tet. Lett.*** 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" ***Inorg. Chem.*** 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" ***Dalton Trans.*** 42, 1696–1707.
93.	Amit Kumar, Rampal Panday, Rakesh Kumar Gupta, Kaushik Ghosh, and **Daya Shankar Pandey*** (**2013**) "Synthesis, characterization and photochemical properties of some ruthenium nitrosyl complexes" ***Polyhedron*** (*Werner Special Issue*) 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-*c*]quinazolines serving as selective and sensitive "on-off" chemosensor for Hg^{2+} in aqueous media" ***Tet. Lett.*** 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" ***Dalton Trans.*** 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" ***Inorg. Chem.*** 51, 8916–8930.
89.	Rampal Pandey, and **Daya Shankar Pandey*** (**2012**) "Reactions and structural studies of 4-(1*H*-benzimidazole-2-yl)-benzonitrile with metal nitrates" ***J. Indian Chem. Soc***. (*Special Issue, on 70th birthday of Prof. K.B. Pandeya*) 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 *E-Z* Isomers" ***Org. Lett***. 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" ***Inorg. Chem***. 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 *meso*-substituted dipyrrins" ***J. Chem Sci.*** (*International Year of Chemistry Special Issue*), 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" ***Indian J. Chem Sect-A*** (*Acharya Prafulla Chandra Ray Special Issue*) 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" ***J. Organomet. Chem.*** 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" ***Inorg. Chim. Acta***, 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" ***Inorg. Chem.*** 50, 3189–3197.
81.	Ashish Kumar Singh, Mahendra Yadav, and **Daya Shankar Pandey*** (**2011**) "Synthesis and characterization of 3*d*- metal complexes based on 1-(4-nitrophenyl)-imidazole" ***Bull. Chem. Soc. Japan*** 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" ***Inorg. Chim. Acta***, 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" ***J. Organomet. Chem***. 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" ***J. Organomet. Chem.*** 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" ***J. Organomet. Chem.*** 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" ***J. Organomet. Chem.*** 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 *meso*-pyridyl substituted dipyrro-methanes"***J. Organomet. Chem.*** 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" ***Inorg. Chim. Acta***, 363, 995–1000.
73.	Prashant Kumar, Mahendra Yadav, Ashish Kumar Singh, and **Daya Shankar Pandey*** (**2010**) "Synthetic, spectral, structural and catalytic aspects of some "*piano-stool*" complexes containing 2-(di-phenylphosphino)ethylpyridine" ***Eur. J. Inorg. Chem.*** 704–715.
72.	Mahendra Yadav, Prashant Kumar, and **Daya Shankar Pandey*** (**2010**) "Heteroleptic rhodium complexes containing both the dipyrrin/-cyclooctadiene ligands and application of [(η^4-C_8H_{12})-Rh(4-pyrdpm)] in the construction of homo-/hetero-bimetallic complexes" ***Polyhedron***, 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" ***Inorg. Chim. Acta*** 363, 2095–2103.
70.	Ashish Kumar Singh, Prashant Kumar, Mahendra Yadav, and **Daya Shankar Pandey*** (**2010**) "Synthesis, characterization and theoretical studies on some *piano-stool* ruthenium and rhodium

	complexes containing substituted phenylimidazole ligands" ***J. Organomet. Chem.*** 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" ***J. Organomet. Chem.*** 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" ***Dalton Trans.*** 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" ***J. Organomet. Chem.*** 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" ***J. Mol. Struct***. 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" ***J. Organomet. Chem.*** 694, 3570–3579.
64.	Mahendra Yadav, Ashish Kumar Singh, and **Daya Shankar Pandey*** (**2009**) "First examples of heteroleptic dipyrrin/η^5-pentamethylcyclopentadienyl rhodium-/iridium(III) complexes and their catalytic activity"***Organometallics*** 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" ***Inorg. Chem***. 48, 7593–7603.
62.	Ashish Kumar Singh, Sudhakar Dhar Dwivdi, 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" ***J. Organomet. Chem***. 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" ***Inorg. Chim. Acta***, 362, 284–290.
60.	Manoj Trivedi*, **Daya Shankar Pandey**, and Nigam P. Rath (**2009**) **"**catena-Poly[(pyridine-κN)copper(II)-μ3-pyridine-2,6-dicarboxylato-$\kappa^3O^2:O^{2'},N,O^6:O^{6'}$]" ***Acta Cryst. E***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" ***Inorg. Chem.*** 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 Synthon in the Synthesis of Bi-/Trimetallic Complexes" ***Eur. J. Inorg. Chem.*** 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" ***Polyhedron*** 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" ***Inorg. Chem. Commun***. 11,951–953.
55.	Manoj Trivedi*, **Daya Shankar Pandey,** and Nigam P. Rath (**2008**) "Dioxidobis(2-oxo-1,2-dihydropyridin-3-olato)Molybdenum(VI)" ***Acta Cryst. E*** 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" ***Inorg. Chem. Commun***. 11, 526–530.
53.	Ru-Qiang Zou, Rui-Qin Zhong, Miao Du, **Daya Shankar Pandey** and Qiang Xu* (**2008**) "Controllable Congrgating of Homochiral and Achiral Coordination Polymers: Cadmium (II)

	Pyridine-2,4,6-Tricarboxylate Species with Double Helical Strand and Molecular Building Block Structures" ***Cryst. Growth & Des.*** 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" ***Inorg. Chem***. 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" ***J. Mol. Struct.*** 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" ***Inorg. Chem***. 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" ***Inorg. Chim. Acta*** 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) *Cp** complexes with poly-pyridyl ligands" ***Eur. J. Inorg. Chem.*** 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" ***Trans. Met. Chem***. 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" ***Indian J. Chem***. 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" ***J. Organomet. Chem***. 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" ***J. Inorg. Biochem***. 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" ***J. Organomet. Chem.*** 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" ***J. Organomet. Chem***. 690, 4243–4251.
2004	
41.	Sanjay K. Singh, Manoj Trivedi, M. Chandra, Abhaya N. Sahay and **Daya Shankar Pandey*** (**2004**) "Luminescent *piano-stool* complexes incorporating 1-(4-cyanophenyl)imidazole*:* Synthesis, Spectral and Structural studies" ***Inorg. Chem.*** 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" ***J. Organomet. Chem.*** 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" ***Indian J. Chem.*** 43A, 2573–2577.
38.	Sanjay K. Singh, M. Chandra and **Daya Shankar Pandey*** (**2004**) "Ru(II) complexes imparting N_2O_2 donor bis chelating ligand N,N'-bis(salicylidine)hydrazine in unusual coordination mode" ***J. Organomet. Chem.*** 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 Topo-isomerase II: Ruthenium(II) Polypyridyl and Pyridylazine Complexes" ***J. Organomet. Chem.***

	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 Immine/Azine Hybrid-Chelating N-N' Donor Ligands: Synthetic, Spectral, Structural Aspects and DFT Studies" ***J. Organomet. Chem.*** 689, 1821–1834.
35.	S. Sharma, M Chandra, A.N. Sahay and **Daya Shankar Pandey*** (**2004**) "New Multifunctional Complexes [Ru(κ3-L)(EPh3)2Cl]+ [E = P, As; L = 2,4,6-Tris(2-pyridyl)-1,3,5-triazine] Containing both Group V and Polypyridyl Ligands" ***Eur. J. Inorg. Chem***. 3555–3563.
34.	Manoj Trivedi, Manish Chandra, **Daya Shankar Pandey***, M. Carmen Puerta and Pedro Valerga (**2004**) "Mononuclear hydridocarbonyl ruthenium complexes incorporating N_2O_2 bis-chelating ligands" ***J. Organomet. Chem.*** 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" ***Indian J. Chem.*** 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" ***J. Organomet. Chem.*** 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" ***J. Organomet. Chem***. 648, 39–52.
30.	Manish Chandra, **Daya Shankar Pandey**, M.C. Puerta and P. Valerga* (**2002**) "A *p*-cymene ruthenium(II) DMSO complex [(η^6-$C_{10}H_{14}$)$RuCl_2$.(DMSO)]" ***Acta Cryst.*** 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" ***J. Organomet. Chem.*** 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" ***J. Organomet. Chem.*** 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", ***Indian J. Chem.*** 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, *p*-cymene or hexamethyl-benzene), [Ru(η^6-arene)$(py)_3]^{2+}$ and [Ru(η^6-arene)$(py)_2Cl]^+$" ***Indian J. Chem.*** 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, $MePPr^i_2$ and L = 4-cyanopyridine or 1,4-dicyanobenzene)" ***J. Organomet. Chem.*** 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)]" ***J. Organomet. Chem***. 613, 250–256.
	1999
23.	D.K. Gupta, A.N. Sahay, and **Daya Shankar Pandey*** (**1999**) "Synthesis and characterization of [Ru(η^6-C_6Me_6)Cl_2(ppz)] and [Cl_2(η^6-C_6Me_6)Ru(μ-ppz)Ru(η^6-C_6Me_6)Cl_2] and their reaction

	with EPh_3 (E = P, As and Sb)" ***Indian J. Chem.*** 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 $[(\eta^6\text{-}C_6Me_6)Ru(\mu\text{-}Cl)_3Ru(\eta^6\text{-}C_6Me_6)]PF_6$" ***J. Organomet. Chem.*** 592, 278–282.
1998	
21.	**Daya Shankar Pandey***, A.N. Sahay, Satyajit Pathak and D.K. Gupta (**1998**) "Synthesis and characterization of $[\{Ru(\eta^6\text{-}C_6Me_6)Cl_2\}_2(\mu\text{-DCBT})]$ and its reaction with EPh_3 (E = P, As, Sb), 2,2'-bipyridine and 1,10'-phenanthroline" ***Indian J. Chem.***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" ***Indian J. Chem.*** 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)" ***Synth. React. Inorg. & Metal-Org. Chem.*** 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 $[Ru(\eta^6\text{-arene})(EPh_3)_2H]^+$ (η^6-arene = benzene, *p*-cymene or hexamethylbenzene ; E = P, As or Sb) crystal structure of $[Ru(\eta^6\text{-}C_6H_6)(EPh_3)_2H]BF_4$" ***J. Organomet. Chem.*** 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 (η^6-*p*-cymene)Ruthenium (II) Complexes", ***J. Organomet. Chem.*** 568, 13–20.
1996	
16.	**Daya Shankar Pandey***, K.B. Pandeya, I.P. Tripathi, and U.C. Agarwala (**1996**) "Reactions of $[RuCp(EPh_3)_2Cl]$ {E = P, As, Sb}with Ni (II) Complexes of N-Cyanodithicarbimate anions bearing Pendant Donar Groups" ***Synth. React. Inorg. & Metal-Org. Chem.*** 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" ***Synth. React. Inorg. & Metal-Org. Chem.*** 26, 761–773.
14.	**Daya Shankar Pandey***, A.N. Sahay, and U.C. Agarwala (**1996**) "Synthesis and characterization of $[Ru(\eta^6\text{-}C_6Me_6)Cl_2(CNPy)]$ and $[Cl_2(\eta^6\text{-}C_6Me_6)Ru(\mu\text{-CNPy})Ru(\eta^6\text{-}C_6Me_6)Cl_2]$ and reactivity of $[Ru(\eta^6\text{-}C_6Me_6)Cl_2(CNPy)]$ with various bases" ***Indian J. Chem.*** 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" ***Synth. React. Inorg. & Metal-Org. Chem***. 25, 663–670.
1994	
12.	**Daya Shankar Pandey***, K.B. Pandeya, I.P. Tripathi, and U.C. Agarwala (**1994**) "Reactions of $[RuH(CO)Cl(PPh_3)_3]$ with imidazole, 2-methylimidazole, 2-ethylimidazole, pyrazole" ***Indian J. Chem.*** 33A, 354–356.
1993	
11.	**Daya Shankar Pandey***, K.B. Pandeya, I.P. Tripathi, and S. Titus (**1993**) "Synthesis of some Bimetallic Trinuclear $[Ru(II)\text{-}Ni(II)\text{-}Ru(II)]^{2+}$ complexes" ***J. Indian Chem. Soc.*** 70, 959–965.
1991	
10.	**Daya Shankar Pandey**, and U.C. Agrawala* (**1991**) "N-Acetyl-*dl*-Penicillamine Thionitrite: A Potential Nitrosylating Agent" ***Synth. React. Inorg. & Metal-Org. Chem.*** 21, 361–374.
9.	**Daya Shankar Pandey**, R.L. Mishra, and U.C. Agrawala* (**1991**) "Reactivity of $[Ru(\eta^5\text{-}C_5H_5)Cl(L_2)]$ {L_2=$(PPh_3)_2$, $(AsPh_3)_2$, $(SbPh_3)_2$, $PPh_2(CH_2)_2PPh_2$ and $(PPh_2)_2CH_2$}with *p*-

	phenylenebis(picolinealdamine): Synthesis and Spectral properties of [{Ru(η^5-C_5H_5)-L_2}$_2$PBP]$^{2+}$" ***Indian J. Chem.*** 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^-)" ***Inorg. Chim. Acta***. 172, 13–18.
7.	Lallan Mishra, **Daya Shankar Pandey**, and U.C. Agarwala* (**1990**) "Metal Nitrosyls as Antimicrobial Agents" ***Bull. Chem. Soc. Japan.*** *63*, 3061–3062.
6.	A. Mishra, **Daya Shankar Pandey**, K. Mishra, and U.C. Agrawala* (**1990**) "Reactions of 1-ethynylpyrene with cyclopentadienyl ruthenium complexes" ***Indian J. Chem.*** 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_5H_5)ClL_2] (L_2 = (PPh_3)$_2$/($AsPh_3$)$_2$, dppe, dppm) with 4-cyanopyridine, 1,4-dicyanobenzene and 1,4-dicyanobutene" ***Polyhedron*** 9, 2153–2162.
	1989
4.	**Daya Shankar Pandey,** and U.C. Agrawala* (**1989**) "Trityl Thionitrite: A Potential Transfer Nitrosating Agent for Metal Nitrosylation" ***Inorg. Chim Acta*** 159, 197–200.
3.	**Daya Shankar Pandey**, and U.C. Agrawala* (**1989**) "Nitrosothiourea: It's Reactivity with metal ions and their complexes" ***Polyhedron*** 8, 953–958.
	1987
2.	**Daya Shankar Pandey**, S.K. Saini, and U.C. Agarwala* (**1987**) "*In-Situ* trapping of NO: Application of S-nitroso derivatives for metal nitrosyls synthesis" ***Bull. Chem. Soc. Japan*** 60, 3031–3033.
1.	**Daya Shankar Pandey**, M.I. Khan, and U.C. Agarwala* (**1987**) "Alkyl Nitrites as Nitrosylating Agents" ***Indian J. Chem.*** 26A, 570–573.

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