



**Dr. Ashish Kumar Singh**

Associate Professor

**Centre/School/Special Centre: Physical Science**

**Department: Chemistry**

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## Qualifications

Banaras Hindu University	Ph.D.	Inorganic Chemistry	<b>2011</b>
<b>Thesis Title:</b> Synthetic, spectral and structural aspects of some transition metal complexes based on substituted pyridyl/imidazolyl ligands			
Banaras Hindu University	M.Sc.	Chemistry	<b>2007</b>
Banaras Hindu University	B.Sc.	Chemistry	<b>2005</b>

## Area of Interest/Specialization

Inorganic Chemistry, Catalysis, hydrogen energy, chemical sensors, electrochemical water splitting, oxygen reduction reaction

## Experience (>10 year Teaching & Research)

Associate Professor	<b>2019-Continue (2.5 Y)</b>
Department of Chemistry, GGV, Bilaspur	
DST INSPIRE Faculty (SMST, IIT(BHU))	<b>2016-2019 (3 Y, 2M)</b>
Developing strategies for efficient hydrogen generation from chemical hydrogen storage materials	
Fast-Track Young Scientist (SMST, IIT(BHU))	<b>2016 (5.3 M)</b>
Hydrogen generation from liquid-phase chemical hydrogen storage materials: Strategies and developing new methodology ( <i>Mentor: Prof. Rajiv Prakash and Dr. A. K. Singh</i> )	
Dr. D. S. Kothari Postdoctoral Fellow (IISc, Bangalore)	<b>2013-2016 (2 Y 7.5 M)</b>

Designing strategies for immobilization of homogeneous chiral catalyst on magnetic nanoparticle for their facile recovery (*Supervisor: Prof. B. R. Jagirdar*)

JSPS Postdoctoral Fellow (AIST, Ikeda, Osaka) **2011-2013 (2 Y)**

Study of new liquid phase nitrogen based chemical hydrogen storage materials

(*Supervisor: Prof. Qiang Xu*)

## Awards and Honors

INSA-INSPIRE Faculty Fellowship	<b>2016</b>
Fast-Track Young Scientist (DST)	<b>2015</b>
Dr. D. S. Kothari Postdoctoral Fellowship	<b>2013</b>
JSPS Postdoctoral Fellowship	<b>2011</b>
CSIR-UGC NET-Junior Research Fellowship+LS	<b>2006 &amp; 2007</b>
First Position in M. Sc. Chemistry (Inorganic Section)	<b>2007</b>
Graduate Aptitude Test in Engineering (GATE) ( <b>All India Rank 73</b> )	<b>2007</b>

## Research Projects

**Project No. : YSS/2015/001759**, Hydrogen generation from liquid-phase chemical hydrogen storage materials: Strategies and developing new methodology, SERB, New Delhi, Amount 37,55,170 (Completed)

**Project No: DST/INSPIRE/04/2015/002001**, Developing strategies for efficient hydrogen generation from chemical hydrogen storage materials, DST, New Delhi, Amount: 85,00,000 (Ongoing)

## International Collaboration/Consultancy

Prof. Jianqiang Liu Dongguan Key Laboratory of Drug Design and Formulation Technology, Key Laboratory of Research and Development of New Medical Materials of Guangdong Medical University, School of Pharmacy, Guangdong Medical University, Dongguan 523808, China.

## Best Peer Reviewed Publication (up-to 10)

Sl. No.	Author (s)	Year	Title	Complete Reference of Journal	Impact Factor	ISSN/ ISBN No.
1.	Ayushi Singh, <i>Ashish Kumar Singh</i> ,* J.-Q. Liu* and Abhinav Kumar*	2021	Synthesis, designing strategies and photocatalytic charge dynamics of Metal-Organic Frameworks (MOFs): A catalyzed Photo-degradation approach towards Organic Dyes	Catal. Sci. Technol 11, 3946-3989	6.119	2044-4753
2.	S. Kumar, M. Singh, R.	2021	Lanthanide Based Double	Int. J. Hyd.	5.816	0360-

	Pal, Uday Pratap Azad,* <b>Ashish Kumar Singh</b> ,* D. P. Singh, V. Ganesan, A. Kumar S. and R. Prakash		Perovskites: Bifunctional Catalysts for Oxygen Evolution/Reduction Reactions	Energy, 46, 17163-17172		3199
3.	J.-Q. Liu,* Z.-D. Luo,a Y. Pan, <b>Ashish Kumar Singh</b> ,* M. Trivedi, A. Kumar*	2020	Recent developments in luminescent coordination polymers: Designing strategies, sensing application and theoretical evidences	Coord. Chem. Rev. 406, 213145	22.315	0010-8545
4.	S. Pal, U. P. Azad, <b>Ashish Kumar Singh</b> ,* D. Kumar, R. Prakash	2019	Studies on some spinel oxides based electrocatalysts for oxygen evolution and capacitive applications	Electrochim. Acta 320, 134584	6.901	0013-4686
5.	U. P. Azad, M. Singh, S. Ghosh, <b>Ashish Kumar Singh</b> ,* V. Ganesan, A.K. Singh, R. Prakash	2018	Facile Synthesis of BSCF Perovskite Oxide as Enhanced Bifunctional Oxygen Electrocatalysis	Int. J. Hyd Energy, 43, 20671-20679	5.816	0360-3199
6.	<b>Ashish Kumar Singh</b> ,* Suryabhan Singh and Abhinav Kumar	2016	Hydrogen energy future with formic acid: arenewable chemical hydrogen storage system	Catal. Sci. Technol, 6, 12-40	6.119	2044-4753
7.	<b>Ashish Kumar Singh</b> and Qiang Xu*	2014	Highly-dispersed surfactant-free bimetallic Ni-Pt nanoparticles as high-performance catalyst for hydrogen generation from hydrous hydrazine	Int. J. Hyd Energy, 39, 9128-9134	5.816	0360-3199
8.	<b>Ashish Kumar Singh</b> , Daya Shankar Pandey*, Qiang Xu* and Pierre Braunstein*	2014	Recent advances in supramolecular and biological aspects of arene ruthenium(II) complexes (Invited Review)	Coord. Chem. Rev., 270-271, 31-56	22.315	0010-8545
9.	<b>Ashish Kumar Singh</b> and Qiang Xu*	2013	Synergistic catalysis over bimetallic alloy nanoparticles (Invited review)	Chemcatchem, 5, 652-676	5.686	1867-3899
10.	Sanjay Kumar Singh, <sup>‡</sup> <b>Ashish Kumar Singh</b> , <sup>‡</sup> Kengo Aranishi, and Qiang Xu* ( <sup>‡</sup> = Equal contribution)	2011	Noble-metal-free bimetallic nanoparticle-catalyzed selective hydrogen generation from hydrous hydrazine for chemical hydrogen storage	J. Am. Chem. Soc., 133, 19638-19641	15.419	0002-7863

## Recent Books/Book Chapters/Monographs etc.

S.N.	Book Title	Authors	ISSN/ ISBN No.	Publisher
1.	Reversible Hydrogen Storage: Formic Acid Economy	Ashish Kumar Singh, Akhilesh Kumar Singh, Abhinav Kumar	978-613-9-85671-8	Lambert Academic Publisher
2.	Chapter 11: Single Source Precursors for main group metal sulfides and solar cell applications, Book on "Nanomaterials via Single-Source Precursors"	Suryabhan Singh, Ashish Kumar Singh, Abhinav Kumar*	978-0-12-820340-8, B978-0-12-820340-8.00007-1) 2021	Elsevier

**Research Supervision (Ph.D.-01 (ongoing); M.Tech:06, Completed)**

Sweta Bhagat (since Dec 2021~)

**Administrative Responsibilities**

S.N.	Work	Responsibility	Year
1.	Casual Inspection Team, University End Semester Examination	Member	2019
2.	Vikram Sarabhai Centenary Program (Centenary Exhibition and Vikram Sarabhai Memorial Lecture)	Co-Coordinator	2019
3.	Purchase of clothes for Daily-wager employees	Coordinator	2020
4.	Student Council election, GGV	Chief Counting officer	2020
5.	Two days International Webinar, August 12-13, 2020, Emerging Areas in Chemical Sciences: Opportunities and Challenges (EACS-2020), Jointly Organized by Department of Chemistry, Guru Ghasidas Vishwavidyalaya Koni, Bilaspur, India 495009 (A Central University) & Chemical Research Society of India (CRSI), Bangaluru (Chhattisgarh Local Chapter)	Co-Convenor	2020
6.	Admission Committee, UG/PG admission (2020-21 Session)	Member	2020
7.	Board of Studies, Department of Chemistry	Member	2021-2024
8.	Selection of temporary teaching position	VC nominee	2021
9.	Bharat Ka Amrit Mahotsav, Guru Ghasidas Vishwavidyalaya	Co-Coordinator	2021-22
10.	Committee constituted for assigning "Signage at various salient locations in the University", GGV	Member	2021
11.	Committee constituted for disposal/auction of unserviceable/obsolete objects of university, GGV	Member	2021
12.	Committee constituted for the online admission 2021-22	Dean's nominee	2021
13.	Admission Committee, UG/PG admission (2021-22 Session)	Member	2021
14.	University level Anti ragging committee	Member	2022
15.	CSR committee, GGV	Member	2022

**Additional Information**

Researcher id: <http://www.researcherid.com/rid/H-5863-2011>

Orchid id: <http://orcid.org/0000-0001-9499-5843>

Google Scholar: [https://scholar.google.com/citations?user=yn\\_R9rIAAAAJ&hl=en](https://scholar.google.com/citations?user=yn_R9rIAAAAJ&hl=en)

### Statistics of Publications

**Publications** = 59 (+2), **Citation** = 2463, **Av. Cit.** = 42, **Impact Factor** = 287.5, **Av. IF** = 5, **H index** = 23, **Patents**: 2, **Book/Book Chapter**: 2(+2), **Conf.**: 10, **Conf. Proc.**:02, **ResearcherID**: H-5863-2011

### Patents

S.No	Author(s)	Year	Title	Application No. (Date)
1.	Qiang Xu, Sanjay Kumar Singh, <b>Ashish Kumar Singh</b>	<b>2011</b>	Method and catalysts for hydrogen generation	Japanese Patent 2010-195165 (Application date: Sep., 07, 2011) (Registration date: May 29, 2015)
2.	Qiang Xu, Sanjay Kumar Singh, <b>Ashish Kumar Singh</b>	<b>2013</b>	Catalyst for generating hydrogen and method for generating hydrogen	<i>U.S. Patent</i> , 2013, 20130059217 (Application date: Sep., 07, 2011) (Publication date: March 07, 2013)

### Complete List of Publication

Sl. No.	Author (s)	Year	Title	Complete Reference of Journal	Impact Factor	ISSN/ ISBN No.
1	Ayushi Singh, Amita Singh, Gabriele Kociok-Köhn, Rajasekhar Bhimireddi, Anar Singh, <b>Ashish Kumar Singh</b> ,* Abhinav Kumar,* Mohd. Muddassir	2022	Ternary copper molybdenum sulfide (Cu <sub>2</sub> MoS <sub>4</sub> ) nanoparticles anchored on PANI/rGO as electrocatalysts for oxygen evolution reaction (OER)	Appl. Organomet. Chem. e6683	4.105	1099-0739
2	A. Singh, A. Singh, G. Kociok-Köhn, K. C Molloy, <b>Ashish Kumar Singh</b> *, A. Kumar* and M.. Muddassir	2021	Ni(II) dithiolate anion composites with two-dimensional materials for electrochemical oxygen evolution reactions (OER)	New J. Chem. 45, 16264-16270	3.591	1144-0546
3	Ayushi Singh, Manoj Trivedi, Gabriele Kociok-Köhn, <b>Ashish Kumar Singh</b> , Mohd. Muddassir and Abhinav Kumar*	2021	Ferrocenyl thiazolidine-2-thione ornamented 1D coordination polymers derived from coinage metal halide and pseudohalide	CrystEngCom m. 23, 7794-7804	3.545	1466-8033
4	Chiteri Gautam, Ayushi Singh, Anar Singh, <b>Ashish Kumar</b>	2021	Syntheses, Characterization and Oxygen Evolution Reaction (OER)Electrocatalytic Properties	J. Mol. Str. 1243, 130928	3.196	0022-2860

	<b>Singh,*</b> Vinod Kumar Sharma* and Pramod Kumar		of M(II) based Bromo-Salophen Complexes			
5	Ayushi Singh, <b>Ashish Kumar Singh,*</b> J.-Q. Liu* and Abhinav Kumar*	2021	Synthesis, designing strategies and photocatalytic charge dynamics of Metal-Organic Frameworks (MOFs): A catalyzed Photo-degradation approach towards Organic Dyes	Catal. Sci. Technol 11, 3946-3989	6.119	2044-4753
6	Priya Singh, Ravi Prakash Ojha, Sandeep Kumar, <b>Ashish Kumar Singh*</b> and Rajiv Prakash*	2021	Fe-doped MoS <sub>2</sub> nanomaterials with amplified peroxidase mimetic activity for the colorimetric detection of glutathione in human serum	Mater. Chem. Phys. 267, 124684	4.094	0254-0584
7	S. Kumar, M. Singh, R. Pal, Uday Pratap Azad,* <b>Ashish Kumar Singh,*</b> D. P. Singh, V. Ganesan, A. Kumar S. and R. Prakash	2021	Lanthanide Based Double Perovskites: Bifunctional Catalysts for Oxygen Evolution/Reduction Reactions	Int. J. Hyd. Energy, 46, 17163-17172	5.816	0360-3199
8	Chandra Jeet Verma, Ashish Kumar, Shweta Pal, Shashwat Sinha, <b>Ashish Kumar Singh,</b> Aniruddha Jaiswal and Rajiv Prakash*	2020	Polyaniline Stabilized Activated Carbon from Eichhornia Crassipes: Potential Charge Storage Material from Bio-waste	Renewable Energy, 162, 2285-2296	8.001	0960-1481
9	Amita Singh, Archisman Dutta, Ashish Kumar Singh, Manoj Trivedi, Gabriele Kociok-Köhn, Mohd. Muddassir, Abhinav Kumar	2020	Tertiary phosphine-appended transition metal ferrocenyl dithiocarbamates: Syntheses, Hirshfeld surface, and electrochemical analyses	Appl. Organomet. Chem. 34, e5879	4.105	1099-0739
10	P. Singh, A. Singh, A. Singh, Ashish Kumar Singh, G. Kociok-Köhn, A. Alowais, N. A. Y. Abduh, M. Muddassir, and A. Kumar	2020	New 1D diorganotin(IV) dithiolate coordination polymers: crystallographic, computational, Hirshfeld surface and thermal analyses	CrystEngComm, 22, 2049-2059	3.545	1466-8033
11	J.-Q. Liu,* Z.-D. Luo,a Y. Pan, <b>Ashish Kumar Singh,*</b> M. Trivedi, A. Kumar*	2020	Recent developments in luminescent coordination polymers: Designing strategies, sensing application and theoretical evidences	Coord. Chem. Rev. 406, 213145	22.315	0010-8545
12	S. Dev G., Vikas Sharma,* <b>Ashish Singh,</b> V. S. Baghel, M. Yanagida, A. Nagataki, N. Tripathi*	2019	Raman spectroscopic study of ZnO/NiO nanocomposites based on spatial correlation model	RSC Adv. 9, 26956-26960	3.36	2046-2069
13	Pranjalee Yadav, Sarita Gond, Ashish Kumar Singh, Vinod P. Singh*	2019	A pyrene-thiophene based probe for aggregation induced emission enhancement (AIEE) and naked-eye detection of fluoride ions	J. Luminescence . 215, 116704	3.599	0022-2313
14	V. P. Singh, R.	2019	Logic gate behavior and	Org. Biomol.	3.49	1477-

	Dwivedi, D. P. Singh, S. Singh, <b>Ashish Kumar Singh</b> , B. S. Chauhan and S. Srikrishna		intracellular application of a fluorescent molecular switch for the detection of Fe <sup>3+</sup> and cascade sensing of F <sup>-</sup> in pure aqueous media	Chem. 17, 7497-7506		0539
15	S. Pal, U. P. Azad, <b>Ashish Kumar Singh</b> ,* D. Kumar, R. Prakash	2019	Studies on some spinel oxides based electrocatalysts for oxygen evolution and capacitive applications	Electrochim. Acta 320, 134584	6.901	0013-4686
16	X.-Y. Ling, J. Wang, C. Gong, L. Lu, <b>Ashish Kumar Singh</b> , A. Kumar, H. Sakiyama, Q. Yang, J. Liu	2019	Modular construction, magnetism and photocatalytic properties of two new metal-organic frameworks based on a semi-rigid tetracarboxylate ligand	J. Solid State Chem. 277, 673-679	3.498	0022-4596
17	A. K. Singh,* J. Prasad, U. P. Azad, <b>Ashish Kumar Singh</b> , R. Prakash, K. Singh, A. Srivastava, A. A. Alaferdova, S. A. Moshkalev	2019	Vanadium doped few-layer ultrathin MoS <sub>2</sub> nanosheets on reduced graphene oxide for high-performance hydrogen evolution reaction	RSC Adv. 9, 22232-22239	3.36	2046-2069
18	P. Yadav, <b>Ashish Kumar Singh</b> , C. Upadhyay, V. P. Singh	2019	Photoluminescence behaviour of a stimuli responsive Schiff base: Aggregation induced emission and piezochromism	Dyes & Pigments 160, 731-739	4.889	0143-7208
19	S. K. S. Patel, K. Dewangan, S. K. Srivastav, N. K. Verma, P. Jena, <b>Ashish Kumar Singh</b> , N. S. Gajbhiye	2018	Synthesis of $\alpha$ -MoO <sub>3</sub> nanofibers for enhanced field-emission properties	Adv. Mater. Lett. 9 585-589	NA	0976-397X
20	U. P. Azad, M. Singh, S. Ghosh, <b>Ashish Kumar Singh</b> ,* V. Ganesan, A.K. Singh, R. Prakash	2018	Facile Synthesis of BSCF Perovskite Oxide as Enhanced Bifunctional Oxygen Electrocatalysis	Int. J. Hyd Energy, 43, 20671-20679	5.816	0360-3199
21	A. Singh, M. Trivedi, P. Singh, G. Kociok-Köhn, U. P. Azad, <b>Ashish Kumar Singh</b> * A. Kumar*	2018	Copper(I) tertiary phosphine xanthate complexes as single source precursors for copper sulfide and their application in the OER	New J. Chem., 42, 18759-18764	3.591	1144-0546
22	U. P. Azad, S. Ghosh, C. Verma, <b>Ashish Kumar Singh</b> ,* A. K. Singh,* R. Prakash	2018	Study of Capacitive Behavior of MOF Derived Nanocarbon Polyhedron	Chemistry Select 3, 6107-6111	2.109	2365-6549
23	A. Singh, R. Yadav, G. Kociok-Köhn, M. Trivedi, U. P. Azad, <b>Ashish Kumar Singh</b> ,* A. Kumar*	2018	Syntheses of nickel sulfides from 1,2-bis(diphenylphosphino)ethane nickel(II)dithiolates and their application in the oxygen evolution reaction	Int. J. Hyd Energy, 43, 5985-5995	5.816	0360-3199
24	S. Ghosh, U. P. Azad, <b>Ashish Kumar Singh</b> ,*	2017	Facile Synthesis of MoS <sub>x</sub> and MoS <sub>x</sub> -rGO Composite:	Chemistry Select,	2.109	2365-6549

	A. K. Singh, R. Prakash		Excellent Electrocatalyst for Hydrogen Evolution Reaction	2, 11590 – 11598		
25	R. Yadav, Ashish Kumar Singh, Y. Waghadkar, G. Kociok-Köhn, A. Kumar,* R. Chauhan,* S. Rane, S. Gosavi	2017	1,2-bis(diphenylphosphino)ethane nickel(II) O,O'-dialkyldithiophosphates as Potential Precursors for Nickel Sulfides	New Journal of Chemistry, 41, 1327–1333	3.591	1144-0546
26	D. P. Singh, R. Dwivedi, <b>Ashish Kumar Singh</b> , B. Koch, P. Singh, V. P. Singh*	2017	A dihydrazone based “turn-on” fluorescent probe for selective determination of Al <sup>3+</sup> ions in aqueous ethanol	Sens. Actuat. B., 238, 128–137	7.460	0925-4005
27	R. Chauhan, R. Yadav, <b>Ashish Kumar Singh</b> , M. Trivedi, G. Kociok-Köhn, A. Kumar,* S. Gosavi, S. Rane	2016	Ferrocenyl Chalcones with Phenolic and Pyridyl Anchors as Potential Sensitizers in Dye-Sensitized Solar Cells	RSC Advances, 6, 97664–97675	3.36	2046-2069
28	<b>Ashish Kumar Singh</b> ,* Suryabhan Singh and Abhinav Kumar	2016	Hydrogen energy future with formic acid: arenewable chemical hydrogen storage system	Catal. Sci. Technol., 6, 12–40	6.119	2044-4753
29	<b>Ashish Kumar Singh</b> and Qiang Xu*	2014	Highly-dispersed surfactant-free bimetallic Ni-Pt nanoparticles as high-performance catalyst for hydrogen generation from hydrous hydrazine	Int. J. Hyd Energy, 39, 9128–9134	5.816	0360-3199
30	<b>Ashish Kumar Singh</b> , Daya Shankar Pandey*, Qiang Xu* and Pierre Braunstein*	2014	Recent advances in supramolecular and biological aspects of arene ruthenium(II) complexes (Invited Review)	Coord. Chem. Rev., 270–271, 31–56	22.315	0010-8545
31	<b>Ashish Kumar Singh</b> and QiangXu*	2013	Metal-organic framework supported bimetallic Ni-Pt nanoparticles as high-performance catalysts for hydrogen generation from hydrous hydrazine	Chemcatchem , 5, 3000–3004	5.686	1867-3899
32	Kengo Aranishi, <b>Ashish Kumar Singh</b> , and QiangXu*	2013	Dendrimer-encapsulated bimetallic Pt-Ni nanoparticles as highly efficient catalysts for hydrogen generation from chemical hydrogen storage materials	Chemcatchem , 5, 2248–2252	5.686	18673899
33	<b>Ashish Kumar Singh</b> and QiangXu*	2013	Synergistic catalysis over bimetallic alloy nanoparticles (Invited review)	Chemcatchem , 5, 652–676	5.686	1867-3899
34	Di-Chang Zhong, KengoAranishi, <b>Ashish Kumar Singh</b> , Umit B. Demirci and QiangXu* (Inside cover page)	2012	Synergistic effect of Rh-Ni catalysts on the highly-efficient dehydrogenation of aqueous hydrazine borane for chemical hydrogen storage	Chem. Commun., 48, 11945–11947	6.222	1359-7345
35	<b>Ashish Kumar Singh</b> , Mahendra Yadav,	2012	Temperature-induced selectivity enhancement in hydrogen	Int. J. Hyd Energy, 37,	5.816	0360-3199

	Kengo Aranishi and Qiang Xu*		generation from Rh-Ni nanoparticle-catalyzed decomposition of hydrous hydrazine	18915–18919		
36	Mahendra Yadav, <b>Ashish Kumar Singh</b> , Nobuko Tsumori, Qiang Xu	2012	Palladium silica nanosphere-catalyzed decomposition of formic acid for chemical hydrogen storage	J. Mater. Chem., 22, 19146–19150	11.3	2050 7488
37	Sanjay Kumar Singh, <b>Ashish Kumar Singh</b> , Kengo Aranishi, and Qiang Xu* ( <sup>†</sup> = Equal contribution)	2011	Noble-metal-free bimetallic nanoparticle-catalyzed selective hydrogen generation from hydrous hydrazine for chemical hydrogen storage	J. Am. Chem. Soc., 133, 19638–19641	15.419	0002 7863
38	Prashant Kumar, <b>Ashish Kumar Singh</b> , Rampal Pandey, Daya Shankar Pandey*	2011	Bio-catalysts and catalysts based on ruthenium(II) polypyridyl complexes imparting diphenyl-(2-pyridyl)-phosphine as a co-ligand	J. Organomet. Chem., 696, 3454–3464	2.369	0022 328X
39	R. Pandey, P. Kumar, <b>Ashish Kumar Singh</b> , M. Shahid, P.-Z. Li, S. K. Singh, Q. Xu, A. Misra, D. S. Pandey*	2011	Fluorescent zinc(II) complex exhibiting “On-Off-On” switching toward Cu <sup>2+</sup> and Ag <sup>+</sup> ions	Inorg. Chem., 50, 3189–3197	5.165	0020 1669
40	P. Kumar, <b>Ashish Kumar Singh</b> , M. Yadav, P. Z. Li, S. K. Singh, Q. Xu, D. S. 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	2.545	0020 1693
41	<b>Ashish Kumar Singh</b> , Mahendra Yadav, and Daya Shankar Pandey*	2011	Synthesis and characterization of 3d metal complexes based on 1-(4-Nitrophenyl)-imidazole	Bull. Chem. Soc. Jpn, 84, 205–210	5.488	0009 2673
42	Mahendra Yadav, <b>Ashish Kumar Singh</b> , Daya Shankar Pandey*	2011	Heteroleptic half-sandwich Ru(II), Rh(III) and Ir(III) complexes based on 5-ferrocenyldipyrrromethene	J. Organomet. Chem., 696, 758–763	2.369	0022 328X
43	P. Kumar, <b>Ashish Kumar Singh</b> , R. Pandey, P.-Z. Li, S. K. Singh, Q. Xu, D. S. Pandey*	2010	Synthesis, characterization and reactivity of arene ruthenium compounds based on 2,2'-dipyridylamine and di-2-pyridylbenzylamine and their applications in catalytic hydrogen transfer of ketones	J. Organomet. Chem., 695, 2205–2212	2.369	0022 328X
44	Rakesh Kumar Gupta, <b>Ashish Kumar Singh</b> , Mahendra Yadav, Prashant Kumar, Sanjay Kumar Singh, Pei-zhou Li, Qiang Xu, Daya Shankar Pandey*	2010	Synthesis and characterization of Ru(IV) and Rh(I) complexes containing phenyl-imidazole ligands	J. Organomet. Chem., 695, 1924–1931	2.369	0022 328X
45	<b>Ashish Kumar Singh</b> , Mahendra Yadav, Rampal Pandey, Prashant Kumar, Daya Shankar Pandey*	2010	Half-sandwich ruthenium, rhodium and iridium complexes containing dipyridylamine based ligands	J. Organomet. Chem., 695, 1932–1939	2.369	0022 328X
46	Sudhakar Dhar	2010	New ruthenium(II) thiolato	Inorg. Chim.	2.545	0020

	Dwivedi, Santosh Kumar Dubey, <b>Ashish Kumar Singh</b> , Krishna Kumar Pandey, Daya Shankar Pandey*		complexes: Synthesis, reactivity, spectral, structural and DFT studies	Acta, 363, 2095–2103		1693
47	Prashant Kumar, MahendraYadav, <b>Ashish Kumar Singh</b> , Daya Shankar Pandey *	2010	Synthesis and characterization of some novel ruthenium(II) complexes containing thiolate ligands	J. Organomet Chem, 695, 994–1001	2.369	0022 328X
48	<b>Ashish Kumar Singh</b> , MahendraYadav, Sanjay Kumar Singh, SailajaSunkari, Daya Shankar Pandey,*	2010	Extended molecular networks based on Zn and Cd imparting N-substituted imidazole	Inorg. Chim. Acta, 363, 995–1000	2.545	0020 1693
49	MahendraYadav, <b>Ashish Kumar Singh</b> , RampalPandey, Daya Shankar Pandey *	2010	Synthesis and characterization of complexes imparting N-pyridyl bonded meso-pyridyl substituted dipyrromethanes	J. Organomet Chem, 695, 841–849	2.369	0022 328X
50	<b>Ashish Kumar Singh</b> , Prashant Kumar, MahendraYadav, Daya Shankar Pandey*	2010	Synthesis, characterisation and theoretical studies on some piano-stool ruthenium and rhodium complexes containing substituted phenyl imidazole ligands	J. Organomet. Chem., 695, 567–573	2.369	0022 328X
51	Prashant Kumar, MahendraYadav, <b>Ashish Kumar Singh</b> , Daya Shankar Pandey*	2010	Synthetic, spectral, structural, and catalytic aspects of some piano-stool complexes containing 2-(2-diphenylphosphanylethyl)pyridine	Eur. J. Inorg. Chem., 2010, 704–715	2.529	1434 1948
52	Prashant Kumar, <b>Ashish Kumar Singh</b> , Sanjeev Sharma, Daya Shankar Pandey*	2009	Structures, preparation and catalytic activity of ruthenium cyclopentadienyl complexes based on pyridyl-phosphine ligand	J. Organomet. Chem., 694, 3643–3652	2.369	0022 328X
53	<b>Ashish Kumar Singh</b> , Mahendra Yadav, Prashant Kumar, Sanjay Kumar Singh, Sailaja Sunkari, Daya Shankar Pandey*	2009	Novel structures based on 1-(4-cyanophenyl)-imidazole resulting from weak bonding interactions	J. Mol. Str., 935, 1–7	3.196	0022 2860
54	Prashant Kumar, <b>Ashish Kumar Singh</b> , Jitendra Kumar Saxena, Daya Shankar Pandey*	2009	Synthesis, and characterization of ruthenium(II) polypyridylcomplexes containing $\alpha$ -amino acids and its DNA binding behavior	J. Organomet. Chem., 694, 3570–3579	2.369	0022 328X
55	<b>Ashish Kumar Singh</b> , Sudhakar Dhar Dwivedi, Santosh Kumar Dubey, Sanjay Kumar Singh, Sanjeev Sharma, Daya Shankar Pandey,* Ru-Qiang Zou, Qiang Xu	2009	Synthesis and reactivity of homo-bimetallic Rh and Ir complexes containing a N,O-donor Schiff base	J. Organomet. Chem., 694, 3084–3090	2.369	0022 328X

56	Mahendra Yadav, <b>Ashish Kumar Singh</b> , Daya Shankar Pandey*	2009	First Examples of Heteroleptic Dipyrrin/ $\eta^5$ -Pentamethylcyclopentadienyl Rhodium/Iridium (III) Complexes and Their Catalytic Activity	Organometallics, 28, 4713–4723	3.876	0276 7333
57	Mahendra Yadav, <b>Ashish Kumar Singh</b> , Biswajit Maiti, Daya Shankar Pandey*	2009	Heteroleptic arene ruthenium complexes based on meso-substituted dipyrins: Synthesis, structure, reactivity, and electrochemical Studies	Inorg. Chem. 48, 7593–7603	5.165	0020 1669
58	Mahendra Yadav, Prashant Kumar, <b>Ashish Kumar Singh</b> , Joan Ribas, Daya Shankar Pandey*	2009	First examples of homo-/heteroleptic bi-/tri-nuclear complexes containing 5-ferrocenyl-dipyrromethene	Dalton Trans., 2009, 9929–9934	4.390	1477 9226
59	Sudhakar D. Dwivedi, <b>Ashish K. Singh</b> , Sanjay K. Singh, Sanjeev Sharma, Manish Chandra, Daya S. Pandey*	2008	Ruthenium complexes containing pyridine-2-carbaldehyde azine as a synthon in the synthesis of bi-/trimetallic complexes	Eur. J. Inorg. Chem., 2008, 5666–5673	2.529	1434 1948