

Resume



Name : Dr. Raj Kaushal
Designation : Assistant Professor
Department : Chemistry
Qualification : Ph.D
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Profile URL : <https://portfolios.nith.ac.in/index.php?nith/dr-raj-kaushal>

Other Profile Links

Research Gate Link :

Personal Web Link :

Google Scholar Link :

Research Profile

Research Interests :

Brief Research Profile :

Qualification

Name of the Degree	Year Of Passing	Institute/University
B.Sc	1999	MCM DAV College Kangra
M.Sc	2001	Deptt of Chemistry, HPU Shimla
Ph.D.	2007	Deptt of Chemistry, HPU Shimla
Cert. Course in German	2005	HPU Shimla
Joint CSIR-UGC (NET) for JRF	2001	CSIR, New Delhi

Publications

Year	Journal	Publication	Indexed In
2020	Applied Organometallic Chemistry	synthesis, characterization, and α -amylase and α -glucosidase inhibition studies of novel vanadyl chalcone complexes, Applied Organometallic Chemistry, Volume 34, page 1-17, 2020 DOI: 10.1002/aoc.6042	SCI
2020	Journal of Chemical Sciences	Synthesis, characterization, DNA-binding and biological studies of novel titanium (IV) complexes, Journal of Chemical Sciences, 132(1) 2020 https://doi.org/10.1007/s12039-020-01843-9	SCI, SCI(E)
2020	International Journal of Pharmaceutical Research	Synthesis, characterization, DNA-interactions, antioxidant, antimicrobial and anticancer studies of mixed-ligand titanocene dichloride complexes, Vol 12 (3), 1180-89, 2020 https://doi.org/10.31838/ijpr/2020.12.03.164 .	Scopus
2020	Research Journal of Chemistry and Environment	Synthesis, spectroscopic characterization, DNA interactions, antimicrobial and antioxidant activities of Titanium (II) indole complexes, Res. J. Chem. Environ. Vol. 24 (7), 126-145, 2020.	Scopus
2019	Inorganic and nano metal Chemistry	Titanium based mixed ligand complexes: synthesis, spectroscopic and in vitro antiproliferative studies, Inorganic and nano metal Chemistry, 2019, 1-10 DOI: 10.1080/24701556.2019.1569690	Scopus
2018	Anti cancer agents in Medicinal Chemistry	Synthesis, spectral characterization, antibacterial and anticancer activity of some titanium complexes, Anti cancer agents in Medicinal Chemistry, Vol 18, 2018, 739-746. DOI : 10.2174/1871520618666171219122431.	SCI(E)
2016	International journal of Medicinal Chemistry	ct-DNA Binding and Anti-bacterial Activity of Octahedral Titanium (IV) Heteroleptic (Benzoylacetone and Hydroxamic Acids) Complexes, International journal of Medicinal Chemistry, Volume 2016 (2016), Article ID 2361214, 11 pages http://dx.doi.org/10.1155/2016/2361214 .	web of science (Scopus)
2016	Russian journal of General Chemistry	Octahedral Titanium (IV) Complexes with Five Novel Hydroximates Ligands: Synthesis, Spectroscopic Characterization And In Vitro Activities On IMR-32 And CHO Cell Line And Ten Bacterial Strains, Russian Journal of General Chemistry, 2016, vol 86, issue 1, 154-160.	SCI
2016	Russian journal of General Chemistry	In vitro Anticancer and Antibacterial Activities of Octahedral Ruthenium(III) Complexes with Hydroxamic Acids Synthesis and Spectroscopic Characterization, Russian journal of General Chemistry, 2016, vol 86, issue 2.	SCI
2015	Biochemistry Research International	Comparative In Vitro Binding Studies of $TiCl_2(dpme)_2$, $Ti(ada)_2(bzac)_2$, and $TiCl_2(bzac)(bpme)$ Titanium Complexes with Calf-Thymus DNA, Biochemistry Research International, Volume 2015, Article ID 836928, 7 pages	Scopus
2014	Medicinal Chemistry Research	synthesis, structure elucidation and in vitro antiproliferative activities of mixed ligand titanium complexes, Medicinal Chemistry Research, 2014, vol 23(5) page 1-12 DOI 10.1007/s00044-014-0963-7.	SCI (E)
2014	International Journal of Pharmacy and Pharmaceutical Sciences	synthesis, characterization and biological screening of titanium(IV) complexes derived from antibiotic drugs, International Journal of Pharmacy and Pharmaceutical Sciences, 2014 Vol 6, Issue 2, 374-378	Scopus
2014	Bioinorganic Chemistry and applications	Synthesis, spectral characterization and Antiproliferative studies of mixed ligand titanium complexes of adamantylamine , Bioinorganic Chemistry and applications, Volume 2014, Article ID 142828, 1-12 2014	Scopus, SCI(E)
2013	Turkish journal of Chemistry	Syntheses, characterization and antibacterial study of titanium complexes, Turkish journal of Chemistry, vol 37, issue 6 ,936-945,2013.	SCI (E)
2013	Chemical Engineering Transactions	Syntheses and biological screening of Schiff base complexes of titanium (IV), Chemical Engineering Transactions, vol 32, page1801-1806, 2013 .	Scopus
2012	Journal of Modern Chemistry & Chemical Technology	Mono(acetylacetonato) zirconium(iv) aryloxides : synthesis, reactivity and thermoanalytical investigation, Journal of Modern Chemistry & Chemical Technology , Volume 3, Issue 1, April 2012, Pages 6-16.	-
2011	International Journal of Current Research & Review	An insight into metal based anti-cancer drugs, International Journal of Current Research & Review, vol 03 , issue 7 , page, 2011.	Scopus

Year	Journal	Publication	Indexed In
2009	International Journal of theoretical and applied Sciences	New aryloxide derivatives of monochlorotris (acetylacetonato) zirconium(IV). International Journal of theoretical and applied Sciences, Vol 1(1), 2009, 57-63.	ESCI
2007	J. Indian chemical Society	Synthesis, characterization and reactivity of tin(II) 2, 4-dinitrophenoxide J. Indian chemical Society, Vol. 84, 2007, 230-235.	SCI (E)
2005	J. Indian chemical Society	Mixed ligand (acetylacetonate) (chlorophenoxy) zirconium (IV) complexes and their reactivity, J. Indian chemical Society, Vol. 82, 2005, 354-356.	SCI (E)
2004	Indian Journal of Chemistry	Synthesis of new bis(2,4-pentanedionato)zirconium(IV) aryloxides and their thermal studies, Indian Journal of Chemistry, 43 A, 778-781(2004).	SCI (E)
2021	Journal of Coordination Chemistry	Bio-medical potential of chalcone derivatives and their metal complexes as antidiabetic agents: a review	SCI
2021	Applied Nanoscience	A novel and facile green synthesis of SiO ₂ nanoparticles for removal of toxic water pollutants	SCI

Edited Book/Book Chapter

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Ref	Mixed Ligand (acetylacetonato) (chlorophenoxy) zirconium(IV) Complexes	Lambert Academic Publishing	Raj Kaushal & Sarvjeet Singh	978-3-8443-0494-7	2011

Research Projects

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
PI	Extramural Research Grant	Designing, preparation, characterization and antiproliferative activity of titanium based drugs	SERB DST New Delhi	01/04/2016	31/03/2018	11 lacs	completed	NIL

Research Supervision

Programme Name	Scholar Name	Research Topic	Status	Year	Co-Supervisor
Ph.D	Nitesh Kumar	Synthesis, characterization, biological evaluation and computational study of Titanium Complexes	completed	2015	Dr Pamita awasthi
Ph.D	Sheetal	Synthesis, characterization and biological evaluation of titanium and ruthenium complexes with biologically important ligands	completed	2016	
Ph.D	Archana Thakur	Titanium-Indole complexes and their biological Applications	completed	2021	
Ph.D	Mandeep Kaur	Chalcone based vanadium complexes, their antibacterial and antidiabetic studies	ongoing	2017	
M.Tech	Neha Kumari	Computational chemistry and type 2 Diabetes melletus	completed	2017	
M.Tech	Shaifali Sharma	Cobalt chalcone complexes and their in silico alpha glucosidase inhibition	completed	2018	
M.Tech	Akanksha Katoch	Synthesis of mixed ligand complexes of titanium using indole and substituted phenols	completed	2018	
M.Tech	Vikrant Taliyan	Synthesis of alkoxo phenoxo titanium (IV) complexes and their ct-DNA cleavage study using Agarose gel electrophoresis	completed	2019	
M.Tech	Ajay	Organotin(IV) complexes of aminoacid Schiff bases and their ct-DNA interactions	completed	2019	
M.Tech	Harish Kumar Harit	Synthesis, spectroscopic characterization and ct-DNA ligation of vanadium(IV) indole complexes	completed	2019	
Ph.D	Pratibha Sharma	Synthesis and Functionalization of Silica Nanoparticles for Removal of Water Pollutants	ongoing	2018	Dr Jai Prakash

Patents

Name	Reg./Ref.No.	Date Of Award/Filing	Organization	Status
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Teaching

Programme Name	Subjects Taught	From	To	Credits
Assistant Professor	National Institute of Technology, Hamirpur (HP)	30/12/2009	11/10/2020	11 years
Assistant professor (Pre revised)	PTU, Jalandhar	01/09/2008	29/12/2009	1.5 year

Administrative Responsibilities

Position Held	Organization	From	To	Remarks
Assistant Warden	Parvati Girls Hostel, NIT Hamirpur	10/02/2011	30/06/2013	30
Warden	Parvati Girls Hostel, NIT Hamirpur	09/02/2021		06

Expert Talks

Title	Place	Year	Description
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Professional Activities

Name of Activity	Role	Duration	Organization
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Courses Organized

Category	Type	Title	Venue	From	To	Designation
stc	MHRD Funded	Advances in Material Characterization (ATMC 2013), 20-24 May, 2013 sponsored by MHRD and DBT, New Delhi).	NIT, Hamirpur	20/05/2013	24/05/2013	Coordinator
stc	Self Financed	06 days short term course on computer Aided Drug Designing (CADD-2016),	NIT, Hamirpur	12/12/2017	17/12/2017	Coordinator

Category	Type	Title	Venue	From	To	Designation
conference	MHRD Funded	National conference on Analytical Chemistry and Molecular spectroscopy 2016 (ACMS-2016)	NIT, Hamirpur	13/10/2016	14/10/2016	organising secretary
workshop	Self Financed	Training -cum -workshop on Newest Technology of bioinformatics, drug discovery and molecular simulations	NIT, Hamirpur	22/04/2016	23/04/2016	Coordinator

Date :

Place :

Signature