Place for Photograph

Name	Dr. Niraj						Date of Birth: 05/0	09/1977		
Designation					Date	of holding	g Present Post			
Name of the Department and School	Department	of Chem	istry			9	School of Chemic	al Science	& Technolog	ly
Contact Details	Email :nirajii	tr@gmai	l.com			N	Mobile: 93295515	593		
Additional Responsibility in the university, if any	Member of I	QAC								
Educational Qualifications (UG onwards)	Ph.D.									
Research Area/Specialization	Environmen	tal Inorga	anic Cher	nistry						
Awards/ Honors / Fellowship Conferred (With details thereof)							ec. 2004 to Marc zance-2008, IIT l		T-LS (Dec. 2	2004);
Summary of Publications (Number only)	Research Papers	25	Books	Nil	Chapter in Books	01	Seminars/ Conferences Proceedings	02	Projects	03

Research Projects (Completed and Ongoing):

S.No.	Title	Funding Agency	Duration	Sanction order No. & Date	Amount in Rs. Lakh	Completed/ongoing
1.	Impact of carbamate pesticides on soil composition and its morphology	UGC	2 years	30-70/2014-BSR	6.0 lakhs	Completed
	Spatial distribution of Uranium and associated ground water parameters in four districts (Sagar, Vidisha, Guna and Ashok Nagar) of Madhya Pradesh	BRNS	3 Years	36(4)14/13/2017- BRNS/36184	27.6 Lakhs	Ongoing
	MOOC on Chemistry of d-block elements, quantum chemistry and Spectroscopy	CEC		EMRC/SAG/18-19/03	13.5 Lakhs	Ongoing

S:
cations(Details of Research Papers):
 Kumar, V; Upadhyay N, Singh S, Singh J, Kaur P, "Thin Layer Chromatography- A comparative estimation of Soil's atrazine", Current World Environment, 2013, 8(3), 469. Kumar, V; Upadhyay N, Wasit A B, Singh J, Kaur P, "Specroscopic methods for detection of organophosphate pesticides-A preview", Current World Environment, 2013, 8(2), 313.
 Kumar V, Upadhyay N, Kumar V, Kaur S, Singh J, Singh S, Datta, S "Environmental exposure and health risks of the insecticides monocrotophos- A review", Journal of Biodiversity and Environmental Science, 2014, 5(1), 111-120. Kumar V, Kumar V, Upadhyay N, Sharma S, "Chemical, Biochemical and Environmental Aspects of Soil's Atrazine", 2014, 5, 149-165.
Publications(Details of Research Papers):
 Prasad R, UpadhyayN, KumarV. "Simultaneous determination of seven carbamate pesticide residues in gram, wheat, lentil, soybean, fenugreek leaves and apple matrices", Microchemical Journal., 2013; 111: 91-96. (Impact Factor: 3.206 Citation: 42)
 Kumar V, Upadhyay N "A review on sample preparation and chromatographic determination of Acephate an Methamidophos in different samples", Arabian Journal of Chemistry, 2015; 8(5), 624-631. (Impact Factor: 3.298 Citation: 31). Kumar V, Kumar V, Upadhyay N, Sharma S, Interactions of atrazine with transition metal ions in aqueous media experimental and computational approach, 3Biotech, 2015; 5(5): 791-798. (IF:1.786, Citation: 25) Kaur A, Kumar V, Singh S, Singh J, Upadhyay N, Datta S, Singla S, Kumar V, Toll-like receptor-associated keratitis an strategies for its management, 3Biotech, 2015; 5(5): 611-619. (IF: 1.786 Citation: 04) Kumar V, Singh S, Singh J, Upadhyay N. "Potential of Plant Growth Promoting Traits by Bacteria Isolated from Heavy Metal Contaminated Soils", Bulletin of Environmental Contamination and Toxicology, 2015; 94(6)

	 Kumar V, Upadhyay N, Manhas A, "Designing, syntheses, characterization, computational study and biologic activities of silver-phenothiazine metal complex", Journal of Molecular Structure, 2015: 1099, 135-141. (IF: 2.01 Citation: 22)
2016	 Kumar V, Kaur S, Singh S, Upadhyay N. "Unexpected formation of N'-phenyl-thiophosphorohydrazidic acid O, S-dimeth ester from acephate: chemical, biotechnical and computational study", 3Biotech, 2016; 6(1): 1-11, 2016. (IF: 1.78 Citation: 34)
2017	 Wani AB, Chadar H, Upadhyay N, Salicylic acid to decrease plant Stress, Environmental Chemistry Letters 201 15(1): 101-123. (IF: 4.617, Citation: 29)
	 Kumar V, Singh S, Singh R, Upadhyay N, Singh J. "Design, synthesis, and characterization of 2, 2-bis (2, dinitrophenyl)-2-(phosphonatomethylamino) acetate as a herbicidal and biological active agent", Journal of Chemic Biology, 2017, 10: 179-190. (IF: 2.3, Citation: 31)
	 Wani AB, Singh J, Upadhyay N, "Synthesis and Characterization of Transition Metal Complexes of Para-Aminosalicyl Acid with Evaluation of Their Antioxidant Activities" Oriental Journal of Chemistry, 2017; 33(3): 1120-1126. (IF: 0.6 Citation: 02)
	 Singh S, Kumar V, Upadhyay N, Singh J, Singla S, Dutta S, "Efficient biodegradation of acephate by Pseudomona pseudoalcaligenes PS-5 in the presence and absence of heavy metal ions [Cu (II) and Fe (III)], and humic acid 3Biotech 2017; 7: 262. (IF: 1.784, Citation: 18)
	 Kaur S, Kumar V, Chawla M, Cavallo L, Poater A and Upadhyay N. "Pesticides Curbing Soil Fertility: Effect Complexation of Free Metal Ions" <i>Frontiers in Chemistry</i>. 2017; 5:43. (IF: 3.994, Citation: 24).
2018	 Kumar V,Chawla M, Cavallo L,Wani AB,Manhas A,Kaur SP, Poater A,Chadar H, and Upadhyay N. Complexation trichlorosalicylic acids by alkaline and first row transition metals as a switch for their antibacterial activity InorganicaChimica Acta 2018; 469: 379-386. (IF: 2.433, Citation: 14)
	 Kumar V, Singh S, Singh R, Upadhyay N, Singh J, Pant P, Singh R, Srivastava B, Singh A, Subhose V, Spectra structural and energetic study of acephate, glyphosate, monocrotophos and phorate: an experimental and computation approach, <i>Journal of Taibah University for Science</i>, 2018; 12(1): 69-78. (Cite score: 0.78; Citation: 11)
2019	 Kumar V, Singh S, Upadhyay N, Effects of organophosphate pesticides on siderophore producing soils microorganism Biocatalysis and Agricultural Biotechnology, 2019, 21: 101359. (Cite score: 2.26, Citation: 00).
	 Sharma S, Sharma S, Upadhyay N, Modifier Based Enhancement in Physical and Chemical Properties of Bitumen (Bri Review), <i>Oriental Journal of Chemistry</i>, 2019, 35(3): 997-1003. (IF: 0.65, Citation: 00)
	 Sharma S, Sharma S, Upadhyay N. Composition Based Physicochemical Analysis of Modified Bitumen by High-densi polyethylene (HDPE) and Low-density polyethylene (LDPE), <i>Biocatalysis and Agricultural Biotechnology</i>, 201 35(3): 1167-1173. (IF: 0.65, Citation: 00)
2020	 Singh S, Kumar V, Upadhyay N, Singh J, The effects of Fe (II), Cu (II) and humic acid on biodegradation of atrazin <i>Journal of Environmental Chemical Engineering</i>, 2020, (2), 103539 (Cite score: 4.09, Citation: 01).
Chapters in	
	 Kaur SP, Wani AB, Kumar V, Sethi B, Upadhyay N, "Metal ion acquisition strategies by biosynthetic chealtes in plant Ed: Manoj Kumar, "Phytomicrobiome in Stress Regulation", Springer. (Book Chapter accepted, other details not availab yet)
National Se	minar/Conference/Workshops (Attended)
	 National Symposium on Horizons of Molecules, Materials and Daily Life at Dr. HarisinghGourVIshwavidyalaya, Sagar, Madhya Pradesh.
Internation	Seminar/Conference/Workshops (Attended)
	 Niraj Upadhyay, Vijay kumar, "Transforming Atrazine Towards Green Pesticide", (Poster presentation) in the 5th As Oceania Conference on Green and Sustainable Chemistry (AOC-% GSC), held at India Habitat Centre, New Delhi fro 15-17 January organized by Royal Society of Chemistry (London), Green Chemistry Network Centre (New Delhi) and the Energy and Resource Institute (New Delhi).
National Se	minar/Conference/Workshops (Organised)
	 HemlataChadar and Niraj Upadhyay presented a poster entitled, "Role of Phenolic Compounds in Plants Growing und Heavy Metal Stress" in the symposium entitled, "Horizons of Light in Molecules, Materials and Daily Life" on December, 19, 2015.
	 HemlataChadar and Niraj Upadhyay presented a poster entitled, "Synthesis, Characterization, Antimicrobial Activity ar Protein Binding Ability of metal chelates of Trichlorosalicylic Acid" in Science fair & National science day celebration - 20° on the theme "Make in India: S & T driven Innovation" held on 4 th March 2016 in the Dr. Hari Singh Go Vishwavidyalaya, Sagar (MP).
Internation	Seminar/Conference/Workshops (Organised)
	 Joint Secretary of "Science Fair and National Science Day-2016" from 26th February, 2016 to 4th March-2016 in the University on the theme "Make in India: S & T Driven Innovation."
Research P	pers in Proceedings (International Seminar/Conference/Workshops)
	 Kumar V, Upadhyay N, "Computational Chemistry: A preview of Density Functional Theory. ICCS- WILKES100" – Secon International Conference on Computing Sciences- 2013, pp 504, ISBN: 9789351071723 (Publisher Elsevier).
	Sharma S, Sharma S, Upadhyay N, "Properties Of Bituminous Binder Modified With Polyethylene", Second

	nce on Recent Advances in fundamental and Applied Sciences, Journal of Physics, Accepted), November 2019.	
No. of Ph.D. Awarded:	04	
No. of Ph.D. Scholars working:	02	
Other Academic Achievements : Nil		
(i) Reviewer of the Journal(s) (With deta	ils of the journal(s) and duration)	
Ecotoxicology and Environ	nental Safety (Elsevier) 2017-2020	
 Mlcrobilological Research, 	Elevier, 2018-2020	
Journal of Obstetrics and G	ynaecology, Taylor & Francis, 2019	
Archieves of Aronomy and	Soil Sciences, Taylor & Francis, 2019	
ACS Omega (American Ch	emical Society)- 2020	
Chemical Engineering Jour	nal, Elsevier, 2019-2020	
Molecular Medicine Report	s, 2019	
(ii) Membership of the Board of Studies/	School Board / Academic Council/ Executive Council (Within/ outside the university)	
Member, Board of Studies,	Department of Chemistry, Chhindwara State University	