

Kumaun University, Nainital
Curriculum Vitae

Name : Dr. Girish Chandra Kharkwal
Designation : Assistant Professor (Guest Faculty)
Department : Chemistry
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Educational Qualification

Degree	University	Subjects	Year
Ph.D.	Kumaun University, Nainital	Natural Product Chemistry	2014
M. Sc.	Kumaun University, Nainital	Chemistry (Organic)	2007
B.Sc.	Kumaun University, Nainital	Zoology, Botany and Chemistry	2005

Work Experience

Position	Department	University/Organization	Year
Research Associate	Herbal Medicine Division	DIBER, DRDO, Pithoragarh	2017-2019
Project Scientist	Research and Development	GBPNIHE&SD, Kosi, Katarmal, Almora	June 2019 – Sept 2019
Assistant Professor (Guest Faculty)	Chemistry	Kumaun University, Nainital	Sept 2019 till date

Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Member, Admission Committee (B. Sc. I Sem)	Admission	Kumaun University	2019-2022
Member, Admission Committee (M.Sc. I Sem)	Admission	Kumaun University	2022-2023

Research Interests

- Natural Products Chemistry
- Soil Chemistry

Publications

a) Research Papers

S. No.	Authors name	Title of the paper	Journal, Vol, Page no	Year
1.	Bhawana Kanyal, Chitra Pande, Geeta Tewari, Rajendra C. Padalia, Girish Kharkwal , Neeta Negi Aabha and Om Prakash	Chemical composition, antioxidant, anti-inflammatory, antidiabetic activities, <i>in silico</i> PASS, ADMET study and molecular docking of essential oils from <i>Cinnamomum glanduliferum</i> at various drying conditions	Journal of Essential Oil Bearing Plants. 26(5), 1278-1298 (IF: 2.4)	2023
2.	Deepshikha Punetha, Geeta Tewari, Chitra Pande, Sonal Tripathi and Girish C. Kharkwal	Impact of cow manure application as soil amendment on essential oil composition and metal contents in fennel (<i>Foeniculum vulgare</i> Mill)	Applied Biological Research, 23(1): 76-86	2021
3.	H. K. Pandey, A. Guglani, G. C. Kharkwal , G. Balakrishna and Madhubala	Variation in amino acids composition through pre-column derivatization using phenylisothiocyanate by HPLC in some economically important less explored wild <i>Allium</i> species of western Himalayas	Defence Life Science Journal, 5,185-191	2020
4.	H. K. Pandey, G. C. Kharkwal , A. Guglani, G. Balakrishna, G. Blakrishna, A. K. Gupta, S. K. Dwivedi and Madhubala	Evaluation of antioxidant potential of industrially important <i>Cinnamomum</i> species grown in western Himalayas	Progressive Horticulture 51,130-134	2019
5.	G. C. Kharkwal , C. Pande, G. Tewari, A. Panwar and V. Pande	Terpenoid composition and antimicrobial activity of essential oil from <i>Torilis japonica</i> (Houtt.) DC	Journal of the Indian Chemical Society, 94, 191-194 (IF: 1.3)	2017
6.	Geeta Tewari, Nidhi Sharma,	Effect of sludge addition on some soil properties under oxic and	Journal of Chemical Engineering and	2016

	Sunita Sharma, Chitra Pande, Girish C. Kharkwal , Mamta Bisht, Akanksha Rani and Deepshakha Punetha	anoxic environment	Chemistry Research, 3(10), 980-984	
7.	K. Tewari, C. Pande, G. Tewari, G. C. Kharkwal and D. Punetha	Volatile constituents of <i>Geranium wallichianum</i> D. Don ex Sweet. from north-western Himalayan region	Journal of the Indian Chemical Society, 92(1), 123-125 (IF: 1.3)	2015
8.	G. C. Kharkwal , C. Pande, G. Tewari, A. Panwar and V. Pande	Volatile terpenoid composition and antimicrobial activity of flowers of <i>Melia azedarach</i> Linn. from north west Himalayas, India	Journal of the Indian Chemical Society, 92(1), 141-145 (IF: 1.3)	2015
9.	Deepshakha Punetha, Geeta Tewari, Chitra Pande, Girish C. Kharkwal and Kiran Tewari	Investigation on heavy metal content in common grown vegetables from polluted sites of Moradabad District, India	Journal of the Indian Chemical Society, 92(1): 97-103 (IF: 1.3)	2015
10.	Gitu Kunwar, C. Pande, G. Tewari, C. Singh and G. C. Kharkwal	Effect of heavy metals on terpenoid composition of <i>Ocimum basilicum</i> L. and <i>Mentha spicata</i> L.	Journal of Essential Oil Bearing Plants, 18(4), 818-825 (IF: 2.4)	2015
11.	Gitu Kunwar, Geeta Tewari, Chitra Pande, Charu Singh and Girish C. Kharkwal	Family Lamiaceae: phytoremediation aspects	Journal of the Indian Chemical Society, 91(1), 107-112 (IF: 1.3)	2014
12.	C. Singh, S. Singh, C. Pande, G. Tewari and G. C. Kharkwal	Chemical composition of the leaves essential oil from <i>Cinnamomum glanduliferum</i> (Wall) Meissn from Uttarakhand, India	Journal of Essential Oil Bearing Plants, 17(5), 927-930 (IF: 2.4)	2014
13.	G. C. Kharkwal , C. Pande, G. Tewari, A. Panwar and V. Pande	Composition and antimicrobial activity of the essential oil of <i>Heracleum lanatum</i> Michx. from Uttarakhand Himalaya	International Journal of Scientific & Technology Research, 3(12), 60-64	2014
14.	G. Tewari, C.	Phytochemical study of the	Natural Product	2012

	Pande, G. Kharkwal , S. Singh and C. Singh	essential oil from the aerial parts of <i>Coleus aromaticus</i> Benth	Research, 26 (2), 182-185 (IF: 2.2)	
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b) Book chapters

S. No.	Authors name	Title of the book/Title of the book chapter	Publisher	ISBN	Year
1.	Aabha, Bhawana Kanyal, Krishna Rana, Neeta Negi, Geeta Tewari, Chitra Pande, Lata Rana, Kshitindra Kumar Singh, Shalini Singh, Girish C. Kharkwal and Kamaksha Mishra	Modern Trends in Medicinal and Aromatic Plants (Eds. Dr. Geeta Tewari, Dr. Penny Joshi, Dr. Lalit M. Tewari) / Chemical composition and therapeutic potential of <i>Hedychium spicatum</i> Buch. Ham. rhizomes	Indu Book Services Pvt. Ltd. India	978-93-91377-78-6	2023
2.	Disha Upreti, L. M. Tewari, Medha Durgapal, Geeta Tewari, Santosh Kumar Upadhyay, Amrita Tripathi, Naveen Chandra Pandey, Geetanjali Upadhyay, Vasundhara Lodhiyal, Girish C. Kharkwal and Deepika Pant	Assessment of antioxidant and antimicrobial potential of leaf extracts of <i>Pogostemon bengalensis</i> (Burm. f.) Kuntze from Kumaun Western Himalaya	Indu Book Services Pvt. Ltd. India	978-93-91377-78-6	2023
3.	Deepshekha Punetha, Geeta Tewari, Chitra Pande, Girish Kharkwal and Sonal Tripathi	Handbook of Research on Waste Diversion and Minimization Technologies for the Industrial Sector (Eds. A. K. Rathoure) / Assessment of phytoremediation efficiency of <i>Coriandrum sativum</i> in	IGI Global Publisher, Hershey, PA, USA	978-1-7998-4921-6	2021

		metal polluted soil and sludge samples: a green approach			
4.	Girish Ch. KHarkwal	M.Sc. II Semester Chemistry Programme (MSCCH-510L) Laboratory Course	Uttarakhand Open University, Haldwani, India	-	2020

c) Conference Publications/Proceedings

S. No.	Authors name	Title of the paper	Conference name	Year
1.	C. Pande, C. Singh, G. Tewari, S. Singh and G. Kharkwal	Use of <i>Mentha arvensis</i> for phytoremediation	National Seminar on Advances on Natural Products Chemistry and Sustainable Development	2011
2.	Girish C. Kharkwal , Chitral Pande, Geeta Tewari, Charu Singh and Shalini Singh	Essential oil composition of fresh leaves of <i>Bupleurum lanceolatum</i> Wall from Uttarakhand	National Seminar on Advances on Natural Products Chemistry and Sustainable Development	2011
3.	S. Singh, G. Tewari, C. Pande and G. Kharkwal	Heavy metal content in agricultural soil and some vegetables of Tarai region of Kumaun Himalaya	National Conference on Environmental Conservation, Sustainable Natural Resources Management and Strategies for Regional Development with reference to Uttarakhand	2011
4.	G. Kharkwal , C. Pande, G. Tewari and C. Singh	Effect of heavy metal polluted soil on essential oil composition of <i>Ocimumbasilicum</i>	National Conference on Environmental Conservation, Sustainable Natural Resources Management and Strategies for Regional Development with reference to Uttarakhand	2011
5.	C. Singh, C. Pande, G. Tewari and G. Kharkwal	Green technology for removal of heavy metals in polluted soil by using <i>Ocimumbasilicum</i>	National Conference on Environmental Conservation, Sustainable Natural Resources Management and Strategies for Regional Development with reference to Uttarakhand	2011

Projects

Title of the project	Funding agency	Amount (Rs) (Lakhs)	Year
Exploration of chemodiversity of <i>Micromeriabiflora</i> (Buch.-Ham. Ex D. Don) Benth. and <i>Thymus linearis</i>	Kumaun University, Nainital under Internal Funding for Research	2.00	2024

Benth. (Co-PI)			
Chemodiversity and bioactivity of the essential oils of <i>Cinnamomum camphora</i> and <i>Cymbopogon distans</i> from the Himalayan region (Co-PI)	Kumaun University, Nainital under Internal Funding for Research	2.0	2024

Teaching details

Name of the course/paper	Department	University	Year
Inorganic Chemistry (B. Sc. I Sem & B.Sc. II Sem)	Chemistry	D. S. B. Campus, Nainital, Kumaun University, Nainital	2019 –till date
Inorganic Chemistry (M. Sc. I sem)	Chemistry	D. S. B. Campus, Nainital, Kumaun University, Nainital	2019-till date
B. Sc. I Sem and B.Sc. II Sem Practical	Chemistry	D. S. B. Campus, Nainital, Kumaun University, Nainital	2023 -till date
Physical Chemistry (B. Sc. I Sem & B.Sc. II Sem)	Chemistry	D. S. B. Campus, Nainital, Kumaun University, Nainital	2021-22
Inorganic Chemistry (B. Sc. IV Sem	Chemistry	D. S. B. Campus, Nainital Kumaun University, Nainital	2020
Organic Chemistry (B. Sc. III Sem)	Chemistry	D. S. B. Campus, Nainital Kumaun University, Nainital	2022
Organic Chemistry (M. Sc. II sem)	Chemistry	D. S. B. Campus, Nainital Kumaun University, Nainital	2020
Inorganic Chemistry (M. Sc. II sem)	Chemistry	D. S. B. Campus, Nainital Kumaun University, Nainital	2022 – till date
Chemistry of Biological System (M. Sc. III sem)	Chemistry	D. S. B. Campus, Nainital Kumaun University, Nainital	2021
Infra Red Spectroscopy (M. Sc. III sem)	Chemistry	D. S. B. Campus, Nainital Kumaun University, Nainital	2022-till date
Green Chemistry (M. Sc. III sem)	Chemistry	D. S. B. Campus, Nainital Kumaun University, Nainital	2022 –till date
Inorganic Chemistry (M. Sc. IV sem)	Chemistry	D. S. B. Campus, Nainital Kumaun University, Nainital	2023-till date
Organic Chemistry (M. Sc. IV sem)	Chemistry	D. S. B. Campus, Nainital Kumaun	2021-till date

		University, Nainital	
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Honours and Awards

Award	Awarding Organization	Year
Best poster presentation	National Conference at D.B. S. College, Dehradun	2011

Conference Presentations

Title of presentation	Conference name	Name of the institution	Year
Effect of heavy metal polluted soil on essential oil composition of <i>Ocimum basilicum</i> .	National Conference on Environmental Conservation, Sustainable Natural Resource Management and Strategies for regional development with reference to Uttarakhand	D. B. S. College, Dehradun	2011
Essential oil composition of fresh leaves of <i>Bupleurum lanceolatum</i> wall ex DC	National Conference on Advances in Natural Product Chemistry and Sustainable Development	Graphic Era University, Dehradun	2011
Effect of metal polluted soil on essential oil composition of <i>Ocimum basilicum</i>	Conference on Sustainable Mountain Development Summit	Indian Mountain Initiative by CHEA, Nainital, Uttarakhand	2011
Family Lamiaceaceae: Role in Clean up Technology of metal polluted soils	International Conference on Green Technologies for Environmental Rehabilitation	Gurukul Kangri University, Haridwar	2012
Aromatic and Medicinal plants in remediation of contaminated soils	7th Uttarakhand State Science and Technology Congress	Graphic Era University, Dehradun	2012

Terpenoids composition and antimicrobial activity of essential oil from <i>Coleus aromaticus</i> Benth.	8th Uttarakhand State Science and Technology Congress	Doon University, Dehradun	2013
Essential oil composition of <i>Heracleum lanatum</i> Michx. From Uttarakhand Himlaya	International Conference on New Horizons in Pharmaceutical and Biomedical Sciences	Sheetal Life Sciences (p) Ltd., Dehradun	2013



Signature of the faculty member