# Kumaun University, Nainital Curriculum Vitae

Name	: Mahesh Chandra Arya		
Designation	: Assistant Professor		
Department	: Chemistry, D.S.B. Campus, Nainital		
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## **Educational Qualification**

Degree	University	Subjects	Year
B.Sc.	Kumaun University,	Botany, Chemistry, Zoology	1996
	Nainital		
M.Sc.	Kumaun University,	Chemistry	1998
	Nainital		
B.Ed.	Kumaun University,	Science	1999
	Nainital		
Ph.D.	Kumaun University,	Chemistry	2020
	Nainital		

## Work Experience (add row if required)

Position	Department	University/Organization	Year
Manager Grade -	ESIC	Employees State Insurance	2000-2004
II		Corporation	
PGT Chemistry	Navodaya Vidyalaya	Navodaya Vidyalaya Samiti	2004-2010
	Samiti		
Assistant	Department of	Kumaun University	2010-till
Professor	Chemistry		present

## Administrative Responsibilities (add row if required)

Position	Nature of responsibility	University/Organization	Year
Manager Grade	In-charge of a Local Office	Employees State	2000-2004
-II	of ESIC	Insurance Corporation	
Assistant	To conduct entrance and	Kumaun University,	2017-2020
Director,	counselling of Ph.D.	Nainital	2021- till
Research	entrance exams.		present
Assistant	To conduct semester/ year	Kumaun University,	2011-2020
Superintendent	end exams of the	Nainital	
	University		

#### **Research Interests**

Removal of pollutants from Water by adsorption and photocatalysis. Plastics degradation study.

S.No.	Authors name	Title of the paper	Vol, page no	Year	IF
1.	Pathak, M., Bhatt, D., Bhatt, R. C., Bohra, B. S., Tatrari, G., Rana, S., <b>Arya, M. C.</b> , & Sahoo, N. G.	High Energy Density Supercapacitors: An Overview of Efficient Electrode Materials, Electrolytes, Design, and Fabrication.	<i>The Chemical</i> <i>Record</i> ,24, 24, e202300236.	2024	6.4
2.	Nitish Semwal, Divya Mahar, Manjunath Chatti, Anirban Dandapat, <b>Mahesh Chandra</b> <b>Arya</b>	Adsorptive removal of Congo Red dye from its aqueous solution by Ag–Cu–CeO2 nanocomposites: Adsorption kinetics, isotherms, and thermodynamics.	Heliyon,9, 1-18.	2023	4.0
3.	Rana, A., Matiyani, M., Tewari, C., Negi, P. B., <b>Arya, M.</b> <b>C.,</b> Das, V., Pal, M., & Sahoo, N. G.	Functionalized graphene oxide- based nanocarrier for enhanced cytotoxicity of Juniperus squamata root essential oil against breast cancer cells.	Journal of Drug Delivery Science and Technology, 72, 103370.	2022	5.06
4.	Ali, S. R., <b>Arya</b> , <b>M. C.,</b> Kalam, A., Al-Sehemi, A. G., Khan, Z., Ansari, S., & Kumar, R.	Adsorption potential of zirconium-ferrite nanoparticles for phenol, 2-chlorophenol and 2-nitrophenol: thermodynamic and kinetic studies.	Desalination and Water Treatment, 179, 183–196.	2020	1.23
5.	Arya, M. C., Bafila, P. S., Mishra, D. K., Negi, K., Kumar, R., & Bughani, A.	Adsorptive removal of Remazol Brilliant Blue R dye from its aqueous solution by activated charcoal of Thuja orientalis leaves: an eco-friendly approach.	SN Applied Sciences, 2(2).	2020	2.6
6.	Ali, S. R., Kumar, R., Kalam, A., Al- Sehemi, A. G., & <b>Arya, M. C.</b>	Effect of Strontium Doping on the Band Gap of CeO2 Nanoparticles Synthesized Using Facile Co-precipitation.	Arabian Journal for Science and Engineering, 44(7), 6295–6302	2019	2.074
7.	Ali, S. R., Kumar, R., Kadabinakatti, S. K., & <b>Arya, M.</b> C.	Enhanced UV and visible light—driven photocatalytic degradation of tartrazine by nickel-doped cerium oxide nanoparticles.	Materials Research Express, 6(2), 025513.	2019	2.3
8.	Ali, S. R., Kumar, R. D., & <b>Arya, M.</b> C.	Enhanced Photocatalytic Activity of Manganese-Doped Cerium Oxide Nanoparticles under Visible and UV Irradiation.	<i>Asian Journal of</i> <i>Chemistry</i> , <i>30</i> (11), 2544– 2550.	2018	0.158

# Publications (start from recent publications)

## a) Research Papers (add row if required)

9.	Arya M C,	Adsorption Capacity of	International	2015	NIL
	Kadabinakatti S	Charcoals of Hardwood and	Journal of		
	K, Kumar R and	Softwood: A Comparative Study	Innovative		
	Joshi P		Research and		
	JOBIN		Studies 2015; 14		
			(10); 80-90		
10.	Mahesh C.Arya,	Study of Efficacy of	Nature and	2014	NIL
	Sharanappa	Clerodendron inerme Gaertn.	Science,		
	K.Kadabinakatti and	Leaf extract against Pieris	2014; 12(9):22-		
	Rajesh Kumar	brassicae (Linnaeus)	24		

#### b) Patents (start from recent publications) (add row if required)

Authors name	Title of the patent	Patent no (Granted or filed)	Year
NIL	NIL	NIL	NIL

#### c) Books (start from recent publications) (add row if required)

	1 , .	1 /		
Authors name	Title of the book	Publisher	ISBN	Year
Mahesh Chandra Arya	TRENDS IN DOCTORAL	Pahar	9788196598976	2023
Sanjay Ghildiyal	DISSERTATIONS IN	Foundation,		
Nitish Semwal	CHEMISTRY IN	New Delhi		
Divya Mahar	KUMAUN UNIVERSITY			
	1973-2022			

#### d) Book chapters (start from recent publications) (add row if required)

Authors name	Title of the book	Publisher	ISBN	Year
Ed.Dr. Manoj Kumar Arya Ed. Gerritzen, J.	Biodiversity, Environment, and Ecosystem Services(pp.106-126). Cerium Oxide: Structure, Occurrence and Applications	Discovery Publishing House, New Delhi. Nova Scientific Publishers, USA	978-81- 959169- 3-1 978-1- 68507- 938-3	2023 2022
Ed. N.G. Sahoo	Waste Management: strategies, challenges and Future Directions	Nova Scientific Publishers, USA	ISBN: 978-1- 68507- 394-7	2022
Ed. Prem Prakash	Ecological Ignorance in Development Raising Disastrous Possibilities	Anamika Publishers and Distributors (P) Ltd. New Delhi, India:	ISBN: 978-81- 7975- 894-6x	2017

e) Conference Publications/Proceedings (start from recent publications) (add row if required)

Authors name	Title of the paper	Conference Name	Year
NIL	NIL	NIL	NIL

## **Projects (add row if required)**

Title of the project	Funding	Amount (Rs)	Year
	Agency		
Exploration of the mixed metal oxide	CMHERES,	Rs.10,58,000.00	2024
nanocomposites of 3d-transition metals for their	Uttarakhand		
enhanced photocatalytic potential toward the			
degradation of different classes of waste plastics			
Purification and Valorization through Indigenous	NMHS	Rs.	2023
Tailoring of Raw Polymeric waste into Advanced		1,90,59,320.00	
Multidimensional Carbon Nano Materials			
(PAVITRAM) for Large Scale Energy Storage			
applications including Supercapacitors and Batteries			

#### **Teaching details (add row if required)**

University	Year
Kumaun University	2011
	onwards
Kumaun University	
Kumaun University	2011
	onwards
Kumaun University	2011
	onwards
Kumaun University	2011
	onwards
Kumaun University	2011
	onwards
Kumaun University	2011
	onwards
Kumaun University	2019
	onwards
	Kumaun University   Kumaun University

## Professional Memberships (add row if required)

Organisation	Position	Year
Association of Chemistry Teachers (ACT),	Life Membership	2012
Pune	-	
B SN V Vigyan Parishad, Lucknow	Life Membership	2012
Indian Science Congress Association, Kolkata	Life Membership	2012

#### Honours and Awards (add row if required)

Award	Awarding Organization	Year
Prof. D.N. Agarwal Research Award 2023	Kumaun University	2023

Title of presentation	Conference name	Name of the institution	Year
Cerium oxide-based nanomaterials: Efficient materials for water treatment	International Conference on Advances in Nanomaterials and Devices for Energy and Environment CANDEE 2023 IITM GWALIOR	Indian Institute of Information Technology and Management, Gwalior, India	19-20 December 2023
A Journey Towards Hydrogen Economy through Plastic Waste Management	Two-day Hands-on Training Workshop on Upcycling of Solid waste into carbon nanomaterials and their characterisation for various Applications	WORKSHOP By Chemistry Department, Kumaun University, Nainital	6-7 October 2023
Targeted Drug delivery and nanotechnology	National Conference on Current status and opportunities in medicinal plant and natural products research,	SRICC Kumaun University, Nainital	06-07 March, 2021
Diminished photocatalytic activity of strontium doped CeO <sub>2</sub> nanoparticles: Evidence of widening of band gap on strontium doping	International Conference on Energy, Functional Materials & Sustainable Environmental Management ICEFN& SEM- 2019	Chemistry Department, Kumaun University, Nainital	24-26 May,2019
Raman spectroscopic analysis of Sr- doped CeO <sub>2</sub> nanoparticles- Evidence to support EDX results	Symposium on Advances in Physics from Small to Large Scales,	Physics Department, Kumaun University, Nainital	14-16 March, 2019
Tuning the band gap of strontium doped cerium oxide nanoparticles synthesised by the aqueous coprecipitation method	8th Conference of The Indian Science Congress Association (HARIDWAR CHAPTER)	The Indian Science Congress Association	14-15 <i>October</i> , 2017
Adsorptive removal of Zinc (II) by Activated bark of <i>Pinus</i> <i>roxburghii</i> : An Ecofriendly approach	National Seminar on Plants and Environment	Botany Department, Kumaun University, Nainital	27-28 March, 2017

## **Conference Presentations (add row if required)**

