



Dr. Ratiram Gomaji Chaudhary (M.Sc., M.Phil., Ph.D)

Associate Professor & Head

Post Graduate Department of Chemistry

Seth Kesarimal Porwal College of Arts, Science and Commerce, Kamptee
R.T. M. Nagpur University, Nagpur, Maharashtra-441001(INDIA)

Coordinator: Post Graduate Department of Chemistry

Worked as Guest Editors: Materials Today: Proceedings, Elsevier

1. 11th National Conference on Solid State Chemistry & Allied Areas: [NCSCA-2019]

Current Pharmaceutical Biotechnology, Bentham Science:

1. Synthesis, Characterization, and Applications of Green Synthesized Nanomaterials
2. Biogenic Synthesis and Applications of Nanomaterials
3. Green Nanomaterials: A Road Map to Safe Nanotechnology

Current Nanoscience, Bentham Science:

1. Green Nanomaterials for Clean and Sustainable Environment

Current Pharmaceutical Design, Bentham Science:

1. Recent Contributions of Analytical Chemistry to the Pharmaceutical Sciences

Worked as Review Editors: <https://loop.frontiersin.org/people/973046/overview>

1. **Frontiers in Materials:** Polymeric and Composites Materials;
2. **Frontiers in Bioengineering and Biotechnology;**
3. **Frontier in Molecular Biosciences,**
4. **Frontier in Molecular Chemistry**

Research Indexing:

(Total Publications= 134; Google Scholar Citations=2005 (h-index=25); ResearchGate Citations=1951 (h-index=25); Scopus Citations: 1308 (h-index=21); ResearcherID: 14272015)

University Level Recognition:

1. Senate Member of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
2. Worked as Tasked force BOS Member for Chemistry Subject
3. BOS Member for Chemistry Subject in the faculty of Science and Technology

Research Accounts

ResearchGate: https://www.researchgate.net/profile/Ratiram_Chaudhary;

Google Scholar: <https://scholar.google.co.in/citations?user=mk8m3tsAAAAJ&hl=en&cstart=40&pagesize=20>)

Scopus: <https://www.mendeley.com/profiles/ratiram-gomaji-chaudhary/>

LinkedIn: <https://www.linkedin.com/in/ratiram-gomaji-chaudhary-66a59b57/>

Publons: <https://publons.com/author/489554/dr-ratiram-gomaji-chaudhary#profile>

ORCID: <https://orcid.org/0000-0002-7874-585X>

Personal website: www.bionanomat.in

Research Collaboration:

1. Prof. N. B. Singh, Emeritus Professor

Department of Chemistry and Biochemistry, Sharda University, Greater Noida, **India**

2. Prof. Martin Desimone, Associate Editor, Frontiers in Bioengineering & Biotechnology, Frontiers; & Director, Facultad de Farmacia y Bioquímica, Buenos Aires, Argentina

3. Prof. Ahmed A. Abdala, Associate Editor, Frontier in Materials: Polymeric & Composites; Texas A and M University at Qatar POB 23784, Doha, Qatar

4. Prof. Dr. Sami Mahmood, Ex-Dean of University of Jordan, Amman-11942, Jordan

5. Prof. Dr. Rameshwar Adhikari, Research Centre for Applied Science and Technology (RECAST), Tribhuvan University, Kathmandu, Nepal

6. Prof. Marcello Marques, Instituto Tecnológico de Aeronáutica, Campos, São Paulo, Brazil

7. Dr. Raghvendra Kumar Mishra, Cranfield University, Bedfordshire, United Kingdom

8. Dr. Rohit Sharma, Banaras Hindu University, Banaras, UP

9. Dr. Aniruddha Mondal, Lulea University of Technology, Lulea, 97187, Sweden

10. Dr. Raghvendra Pratap Singh, Uttaranchal University, Uttarakhand, India

Personal Details:

Corresponding Address: Seth Kesarimal Porwal College, of Arts, Science and Commerce, Kamptee-441001

Permanent address: 201, Mayureshwar Apptt. Siddheshwar Nagar, Kharbi Ring Road, Nagpur -440034

E-mail: chaudhary_rati@yahoo.com, and ratswat81@gmail.com

Institute: Seth Kesarimal Porwal College, of Arts, Science and Commerce, Kamptee

Date of Birth: 02/07/1981

Mobile No: +91-9860032754; +91-9373764116;

Academic Qualification:

Degree	Year	Subjects	University/Institute	% of marks
B.Sc.	2003	Chemistry, Botany, Zoology	RTM Nagpur University, Nagpur	62.00
M.Sc.	2006	Chemistry	RTM Nagpur University, Nagpur	58.30
M.Phil	2007	Chemistry	RTM Nagpur University	55.5
Ph.D.	2013	Chemistry	RTM Nagpur University

Ph.D. Degree: Ph.D. degree has been awarded entitled “*Synthesis and characterization of some thermally stable chelate polymers*” in the faculty of Science and Technology in the year 2013

Work experience (in chronological order):

S. No.	Positions held	Name of the Institute	From	To	Basic Pay
01.	Associate Professor and Head	Seth Kasarimal Porwal of Arts. Science and Commerce College, Kamptee (Affiliated to RTM University, Nagpur)	02.07.2009 -	till date	Rs. 1,35,400/-
02.	Lecturer	N. H. College, Bramhapuri, Distt- Chandrapur	02.07.2007	1.11.2008	Rs. 8,000 /- (Fixed pay)

Professional Recognition/Award/Prize/Certificate, Fellowship received by the applicant:

S.No	Name of Award	Awarding Agency	Year
01	Best Researcher Award-2023	RTM Nagpur University, Nagpur	2023
02	Outstanding Reviewer Award-2021	IOP & VAST Publishers	2022
03	Outstanding Reviewer Award-2020	IOP & VAST Publishers	2021
04	Mahatma Jyotirao Fule: State Level Best Researcher Award	PROTON Group	
05	Best Researcher Award	Shikshan Prasark Mandal, Kamptee	2020-21
06	Best Researcher Award	Shikshan Prasark Mandal, Kamptee	2019-20
07	Best Researcher Award	Shikshan Prasark Mandal, Kamptee	2018-19
08	Young Scientist Award	IAAM, VBRI Presss	2016
09	Award of Appreciation	ISCAS/DAE Sponsored ICFM	2015
10	Rajeev Gandhi National Fellowship Award (JRF)	UGC, New Delhi	2008
11	Rajeev Gandhi National Fellowship Award (JRF)	UGC, New Delhi	2007

Funding/Grants Received:

S.No	Title of Projects/Conference	Awarding Agency	Grants Received	Status	Year
01	Synthesis, characterization of polymer/ metal nanocomposites materials and their applications	SERB	Rs. 11,00,000/-	Completed	2014-2017
02	11 th National Conference on Solid State Chemistry and Allied Areas	SERB	Rs. 100000	Completed	2019-2020
03	11 th National Conference on Solid State Chemistry and Allied Areas	CSIR	Rs. 75000	Completed	2019-2020
04	11 th National Conference on Solid State Chemistry and Allied Areas	DAE-BRNS	Rs. 50000	Completed	2019-2020

Publications (Listed till 2015 in SCI/Scopus Journals, year wise descending order):

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
01	Bhilkar, Bodhne, Yerpude, Madankar, Somkuwar, Daddemal, Lambat, Desimone, Rohit Sharma, Chaudhary	Phyto-derived metal nanoparticles: Prominent tool for biomedical applications	OpenNano	14	100192	2023
02	Dutta, Aziz, Ummek, Karajagi, Siddhartha, Potbhare, Chaudhary, V Vishal, Ghosh	Electrochemical water splitting by a bidirectional electrocatalyst, 4(2023) 102448	STAR Protocol	4	102448	2023

03	ST Yerpude; AK Potbhare; P Bhilkar; AR Rai; RP Singh; AA Abdala; R Adhikari; RG Chaudhary	Biomedical, Clinical and Environmental Applications of Platinum-based Nanohybrids: An Updated Review	Environmental Research (Elsevier)	231	116148	2023
04	RG Chaudhary, V Sonkusare, G Bhusari, A. Mondal, A. Potbhare, Rohit Sharma, HD, Juneja, A. Abdala	Preparation of mesoporous ThO ₂ nanoparticles: Influence of calcination on morphology and visible-light-driven photocatalytic degradation of indigo carmine and methylene blue	Environmental Research (Elsevier)	222	115363	2023
05	Umekar, GSBhusari, Bhoyar, Devthade, Kapgate, Potbhare, Chaudhary, A Abdala	Graphitic Carbon Nitride-Based Photocatalyst for Environmental Remediation of Organic Pollutants	Current Nanoscience (Bentham Science)	19	148-169	2023
06	TL. Lambat, P. Lendade, RG Chaudhary, S. Benerjee and Sami Mahmood	Synthesis of Oxygen and Nitrogen containing heterocycles using Zirconium Dioxide/Mixed Oxide Nanoparticles as Reusable Green Catalysts: A Comprehensive Update	Current Organic Chemistry (Bentham Science)	27	223 - 241	2023
07	Chouke, Shirame, Potbhare, A. Mondal, A. Chaudhary, S. Mondal, Thakare, Nepovimov, Sharma, R.G. Chaudhary	Bioinspired metal/metal oxide nanoparticles: A road map to potential applications	Materials Today Advances (Elsevier)	16	100314	2022
08	Dutta, Aziz, Ummeek, Karajagi, Siddhartha, Potbhare, Chaudhary, V Vishal, Ghosh	A Janus cerium-doped bismuth oxide electrocatalyst for complete water splitting	Cells Reports Physical Science (Cell Press-Elsevier)	3 (11)	101106	2022
09	P. Chouke, Dadure, Potbhare. Bhusari, Mondal, Chaudhary, Singh, Desimone, Chaudhary, Masram	Biosynthesized δ -Bi ₂ O ₃ NPs from Crinum Viviparum Flower Extract for Photocatalytic Dyes Degradation and Molecular Docking	ACS Omega (ACS)	7	20983-20993	2022

10	Khalid, P. Ahmad, A. Khan, S. Muhammad, M. Khandaker, M. Alam, Mohd Asim, Israf Ud Din, R. Chaudhary, D. Kumar, R. Sharma, M. Faruque, TBin Emran	Effect of Cu Doping on ZnO Nanoparticles as a Photocatalyst for the Removal of Organic Wastewater	Bioinorganic Chemistry and Applications (Hindawi)	Article ID 9459886	1-22	2022
11	Sami H. Mahmood, TL Lambat, RG Chaudhary	Nanotechnology applications in plant tissue culture and molecular genetics: A holistic approach	Current Nanoscience (Bentham Science)	18(4)	442-464	2022
12	PB. Chouke, AK. Potbhare, NP. Meshram, MM. Rai, KM. Dadure, K. Chaudhary, AR. Rai*, MDesimone, RChaudhary* DT. Masram	Bioinspired NiO nanospheres: Exploring <i>in-vitro</i> toxicity using Bm-17 and <i>L. rohita</i> liver cells, DNA degradation, docking and proposed vacuolization mechanism	ACS Omega (ACS)	7	6869–6884	2022
13	N. Yadav, A.K. Singh, Talha Bin Emran, R.G. Chaudhary, R. Sharma, S. Sharma, K. Barman	Salicylic Acid Treatment Reduces Lipid Peroxidation, Chlorophyll Degradation and Preserves Quality Attributes of Pointed Gourd Fruit	Journal of Food Quality ID 2090562 (Bentham Science)	Article ID 2090562	,10.1155/2022/2090562	2022
14	N.B.Singh, R.G.Chaudhary, Martin F. Desimone, Anupam Agrawal, Saroj K. Shukla	Green Synthesized Nanomaterials for Safe Technology in Sustainable Agriculture	Current Pharmaceutical Biotechnology (Bentham Science)	PMID: 35676845	10.2174/1389201023666220608113924	2022
15	KM Dadure, AK. Potbhare, D. Mahapatra, A. Haldar, RG Chaudhary	Natural Extracts-mediated Biosynthesis of Zinc Oxide Nanoparticles and Their Multiple Pharmacotherapeutic Perspectives	Jordan Journal of Physics (Yarmouk University)	15	67-79	2022
16	D Mahapatra, A. Haldar, KM Dadure, RG Chaudhary	Half a Decade Progress of Biomass-assisted Development of Zirconium Nanomaterials: Anti-microbial Potentials	Jordan Journal of Physics (Yarmouk University)	15	81-88	2022
17	KM Dadure, AK. Potbhare, D. Mahapatra, A. Haldar, RG Chaudhary	Utilization of Mother Nature's Gift for the Nanobiofabrication of Copper Nanomaterials for Multifarious Applications	Jordan Journal of Physics (Yarmouk University)	15	89-99	2022

	Haldar, RG Chaudhary					
18	P.N. Catalano, RG Chaudhary , Martin F. Desimone, P.L. Santo	A Survey on Analytical methods for green synthesized nanomaterials	Current Pharmaceutical Biotechnology (Bentham Science)	22	813-837	2021
19	MS Umekar, GS Bhusari, AK Potbhare, RG Chaudhary	ZnO Decorated Reduced Graphene Oxide Nanohybrid by <i>Clerodendrum Infortunatum</i>	Emerging Materials Research (ICE)	10	75-84	2021
20	AMondal,MSUmekar, GSBhusari,S.Mondal, RGChaudhary,M. Sami	Biogenic Synthesis of Metal/Metal Oxide Nanostructured Materials	Current Pharmaceutical Biotechnology (Bentham Science)	22	1782 - 1793	2021
21	RG Chaudhary , MS Umekar, AK Potbhare, GS Bhusari, Martin Desimone ,	Bioinspired Reduced Graphene Oxide Based Nanohybrids for Photocatalysis and Antibacterial Applications	Current Pharmaceutical Biotechnology (Bentham Science)	22	1759 - 1781	2021
22	TL. Lambat, RG Chaudhary , S. Benerjee and Sami Mahmood	Sulfamic Acid as Versatile Green Catalyst Used for Synthetic Organic Chemistry: A Comprehensive Update	ChemistrySelect (Wiley)	6	6867-6889	2021
23	RG Chaudhary , AK Potbhare, S.K. Tarik Aziz, Mayuri S	Phytochemically fabricated reduced graphene Oxide-ZnO NCs by <i>Sesbania bispinosa</i> for photocatalytic performances	Materials Today: Proceedings (Elsevier)	36	756-762	2021
24	RG Chaudhary , Trimurti L. Lambat, Mayur V. Khedkar, Amhmed Abdala,	CO Surrogates: A green Alternative in Palladium Catalyzed CO Gas Free Carbonylation reactions	Current Organic Chemistry (Bentham Science)	24	2588-2600	2020
25	AK Potbhare, A Mondal, RUBhaskar, S Mondal, RG Chaudhary ,	<i>Rhizoctonia solani</i> assisted biosynthesis of silver nanoparticles for antibacterial assay,	Materials Today: Proceedings (Elsevier)	29	939-945	2020
26	RG Chaudhary , PB. Chouke, R. Bagade, AK Potbhare	Molecular docking and antioxidant activity of <i>Cleome simplicifolia</i> assisted synthesis of cerium oxide nanoparticles	Materials Today: Proceedings (Elsevier)	29	1085-1090	2020
27	RK Mishra, K Verma, RG Chaudhary , Lambat, K Joseph,	An efficient fabrication of polypropylene hybrid nanocomposites using carbon nanotubes and PET fibrils,	Materials Today: Proceedings (Elsevier)	29	794-800	2020
28	A.U. Chaudhry, A. Abdala, Sunil P. Lonkar, RG Chaudhary , Abdelnasser	Thermal, electrical, and mechanical properties of highly filled HDPE/graphite nanoplatelets composites	Materials Today: Proceedings (Elsevier)	29	704-708	2020

	Mabrouk					
29	R Tomar, AA Abdala, RG Chaudhary, NB Singh	Photocatalytic degradation of dyes by nanomaterials	Materials Today: Proceedings (Elsevier)	29	967-973	2020
30	A Mondal, PB Chouke, V Sonkusre, T Lambat, AA Abdala, S Mondal, RG Chaudhary	Ni-doped ZnO nanocrystalline material for electrocatalytic oxygen reduction reaction,	Materials Today: Proceedings (Elsevier)	29	715-719	2020
31	Ashish Tiple, RG Chaudhary, AT N.B. Singh	A Review on Nanotoxicology: Aquatic Environment and Biological System	Materials Today: Proceedings (Elsevier)	29	1246-1250	2020
32	VN Sonkusare, RG Chaudhary, A. Mondal, A.Abdala, G. Bhusari, R.K. Mishra, A.Potbhare,&H.Jun eja	Mesoporous Octahedron-Shaped Tricobalt Tetraoxide Nanoparticles for Photocatalytic Degradation of Toxic Dyes,	ACS Omega (ACS)	5	7823-7835	2020
33	MS Umekar, RG Chaudhary, GS Bhusari, A Mondal, AK Potbhare, M Sami,	Phytoreduced graphene oxide-titanium dioxide nanocomposites using <i>Moringa Moleifera</i> stick extract	Materials Today: Proceedings (Elsevier)	29	709-714	2020
34	RG Chaudhary, P.B. Chouke, A. K. Potbhare,K.M Dadure, A.J. Mungole, N.P. Meshram,R.Chaudh ary	An antibacterial activity of <i>Bauhinia racemosa</i> assisted ZnO nanoparticles during lunar eclipse and docking assay	Materials Today: Proceedings (Elsevier)	29	815-821	2020
35	Potbhare,Chaudhar y,Umekar,Chouke, M.BBagade, SAziz, A Abdala,	Bioinspired graphene-based silver nanoparticles: Fabrication, characterization and antibacterial activity	Materials Today: Proceedings (Elsevier)	29	720-725	2020
36	TL. Lambat, RG Chaudhary, Ahmed A. Abdala, Raghvendra Mishra, and Subhash Benerjee,	Mesoporous PbO nanoparticle-catalyzed synthesis of arylbenzodioxo xanthenedione scaffolds under solvent-free conditions in a ball mill	RSC Advances (RSC)	9	31683-31690	2019
37	RG Chaudhary, Ganesh S. Bhusari, A.D. Tiple, A. Rai	Metal/Metal Oxide Nanoparticles: Toxicity, Applications, and Future Prospects	Current Pharmaceutical Design (Bentham Science)	25	4013-4029	2019

38	TL Lambat, AA Abdala, PV Mahmood, RG Ledade, RG Chaudhary, Subhash Benerjee	Sulfamic acid promoted one-pot multicomponent reaction: a facile synthesis of 4-oxo-tetrahydroindoles under ball milling conditions,	RSC Advances (RSC)	9	39735-39742	2019
39	R.K.Mishra, P. Mishra, K. Verma, A. Mondal, RG Chaudhary, M.M.Abolhasani	Electrospinning production of nanofibrous membranes; Review	Environmental Chemistry Letters (Springer)	17	767-800	2019
40	R. Bagade, AK Potbhare, RG Chaudhary, Mondal, M Desimone, R.Mishra, HD Juneja.	Microspheres/Custard-Apples Copper (II) Chelate Polymer: Characterization, Docking, Antioxidant and Antibacterial Assay	ChemistrySelect (Wiley)	4	6233-6244	2019
41	Ajay K. Potbhare, RG Chaudhary, V. Sonkusare, A. Mondal, Alok R Rai, HD Juneja	Phytosynthesis of nearly monodisperse CuO nanospheres using <i>Phyllanthus Reticulatus/C. onyza Bonariensis</i> and its antioxidant/antibacterial assays	Materials Science & Engineering C (Elsevier)	99	783-793	2019
42	R. Bagade, V. Sonkusare, A.K. Potbhare, RG Chaudhary, H. Juneja	Fabrication of Microflower-shaped Mesoporous Fe (II) Chelate Polymer for Photocatalytic Performance under Visible Light,	Material Today: Proceedings (Elsevier)	15	566-574	2019
43	PB.Chouke, Potbhare, GS. Bhusari, S. Somkuwar, R.. Mishra and RG Chaudhary	Green fabrication of Zinc oxide nanospheres by <i>Aspidopterys Cordata</i> for effective antioxidant and antibacterial activity	Advanced Materials Letters (VBRI Press)	10	355-360	2019
44	Potbhare, Chauke, V. Sonkusare, Bagade, M. Umekar, RG Chaudhary	Microwave-mediated Fabrication of Mesoporous Bi-doped CuAl ₂ O ₄ Nanocomposites for Antioxidant and Antibacterial Performances	Material Today: Proceedings (Elsevier)	15	454-463	2019
45	RG Chaudhary, JA Tanna, P Ali, NV Gandhare, HD Juneja	Thermal decomposition kinetics of some transition metal coordination polymers of fumaroyl bis(pmpc) using DTG/DTA techniques	Arabian Journal of Chemistry (Elsevier)	12	1070-1082	2019
46	V. Sonkusare, RG Chaudhary, G. Bhusari, AR Rai, HD. Juneja	Microwave-mediated synthesis, photocatalytic degradation and antibacterial activity of α -Bi ₂ O ₃ Microflower/ γ -Bi ₂ O ₃ Microspindle.	Nano-Structures & Nano-Objects (Elsevier)	13	121-131	2018

47	N. Wanjari, RG Chaudhary , MB Bagade, LJ Paliwal	Transition metal coordination polymers: Microwave-assisted synthesis, morphology, conductivity, and decomposition kinetics by TG/DTA techniques	Journal of the Chinese Advanced Materials Society (Taylor & Francis)	6	234-254	2018
48	RG Chaudhary , V. Sonkusare, G. Bhusari, A. Mondal, D. Shaik, HD Juneja.	Microwave-mediated synthesis of spinel CuAl ₂ O ₄ nanocomposites for enhanced electrochemical and catalytic performance	Research on Chemical Intermediates (Springer)	44	239-2060	2017
49	M Haque, RG Chaudhary , LJ Paliwal.	Synthesis, structural, morphological, and thermal decomposition kinetics of Iron (II) coordination polymer of sebacoyl bis (isonicotinoylhydrazone)	Inorganic Chimica Acta (Elsevier)	462	298-307	2017
50	Geeta Padole-Gaikwad, RG Chaudhary , Mangesh P. Gharpure, Rina Bagade and Harjeet D. Juneja	Construction of five new coordination polymers based on maloyl-5-bis-2-aminobenzothiazole: Synthesis, structural, thermal and non-isothermal kinetics.	Journal of the Chinese Advanced Materials Society (Taylor & Francis)	5	118-132	2017
51	RG Chaudhary , Jay A. Tanna, Nilesh V. Gandhare, A. Mondal, HD Juneja	Silica-coated nickel oxide a core-shell nanostructure: synthesis, characterization and its catalytic property in one-pot synthesis of malonitrile derivative.	Journal of the Chinese Advanced Materials Society (Taylor & Francis)	5	103-117	2017
52	RG Chaudhary , J. Tanna, NV Gandhare, AR Rai, S. Yerpude, HD Juneja.	Copper nanoparticles catalyzed an efficient one-pot multicomponents synthesis of chromenes derivatives and its antibacterial activity.	Journal of Experimental Nanoscience (Taylor & Francis)	11	884-900	2016
53	MP Gharpure, RG Chaudhary , Alok R. Rai, HD Juneja,	Facile synthesis, thermal degradation and effective antimicrobial activities of Cu (II) complexes with bis [3-acetoxy-2-aryl/heteroaryl-4H-chromone],	Journal of the Chinese Advanced Materials Society (Taylor & Francis)	4	195-210	2016
54	RG Chaudhary , JA Tanna, N Gandhare, HD Juneja.	Alumina nanoparticles: A new and reusable catalyst for synthesis of dihydropyrimidinones derivatives.	Advanced Materials Letters (VBRI Press)	7	933-938	2016
55	RG Chaudhary , JA Tanna, VN Sonkusare, HD Juneja.	CuO nanoparticles: synthesis, characterization and reusable catalyst for polyhydroquinoline derivatives under ultrasonication.	Journal of the Chinese Advanced Material Society (Taylor & Francis)	4	110-122	2016

56	N Gandhare, RG Chaudhary , VP Meshram, MP Gharpure, P Chauke, JA Tanna, HD Juneja	An efficient and effective in vitro-callus production in Bacopa Monnieri by using Copper nanoparticles.	Res. J. Pharmaceutical Biol. and Chem. Sciences	7	12-17	2016
57	RG Chaudhary , JA Tanna, NV Gandhare, AR Rai, HD Juneja.	Synthesis of nickel nanoparticles: Microscopic investigation, an efficient catalyst and effective antibacterial activity.	Advanced Materials Letters (VBRI Press)	6	990-998	2015
58	RG Chaudhary , JA Tanna, NV Gandhare, AR Rai, HD Juneja	Histidine Capped ZnO Nanoparticles: An Efficient Synthesis, Characterization and Effective Antibacterial Activity	BioNanoScience (Springer)	5	123-134	2015
59	RG Chaudhary , HD Juneja, R. Pagadala, NV Gandhare, MP Gharpure	Synthesis, characterization and thermal degradation behavior of some coordination polymers by TG/DTG/DTA techniques	Journal of Saudi Chemical Society (Elsevier)	19	442-453	2015

Books/Reports/Chapters/General articles etc.:

S.No	Title	Author's Name	Publisher	Year of Publication
Book Publication				
01	Biogenic Sustainable Nanotechnology: Trends and Progress	RP Singh, AR Rai, AA Abdala, RG Chaudhary	Elsevier	Published on 15 June 2022 (ISBN: 9780323885355) https://www.sciencedirect.com/book/9780323885355/biogenic-sustainable-nanotechnology
02	Emerging Nanomaterials and Their Impact on Society in the 21st Century	N.B. Singh, Md. Abu Bin Hasan Susan and Ratiram Gomaji Chaudhary	Materials Research Forum	ISBN: 978-1-64490-217-2 (10.21741/9781644902172) (https://www.mrforum.com/product/emerging-nanomaterials-and-their-impact/)
03	Emerging Applications of Nanomaterials	N.B. Singh, Md. Abu Bin Hasan Susan and Ratiram Gomaji Chaudhary	Materials Research Forum	ISBN: 978-1-64490-229-5 (10.21741/9781644902295) (https://www.mrforum.com/product/emerging-applications-of-nanomaterials/)
04	Polymer Characterization	RG Chaudhary and HD Juneja	Magnum Publishing house	(ISBN:168250185X)
05	Applications of Emerging Nanomaterials and	N.B. Singh, Md. Abu Bin Hasan Susan and Ratiram	Materials Research Forum	ISBN: 978-1-64490-255-4 (https://www.mrforum.com/)

	Nanotechnology	Gomaji Chaudhary		product/applications-of-emerging-nanomaterials-and-nanotechnology/)
06	Green Synthesis and emerging applications of frontier nanomaterials	Rajshree Jotania, Ratiram Chaudhary, and Martin Desimone	Materials Research Forum	In press
Book-Chapters Publication				
01	Graphene based Nanomaterials and their Nanocomposites with Metal Oxides	A K. Potbhare, RG Chaudhary* , A. Abdala, RK Mishra, and M. Desimone	MRF (Materials Research Forum)	83 (2020) 79-116. https://doi.org/10.21741/9781644900970-4 (https://www.mrforum.com/product/9781644900970-4/)
02	Applications Metal/Metal Oxides Nanoparticles In Organic Transformations	A Mondal, S. K. Tarik Aziz, AK. Potbhare, S. Mondal, T. L. Lambat, Ahmed A. Abdala and RG Chaudhary*	MRF	83 (2020) 134-156, https://doi.org/10.21741/9781644900970-6 (https://www.mrforum.com/product/9781644900970-6/)
03	Fabrication and Applications of Polymer-Graphene Nanocomposites for sustainability	A K. Potbhare, MS Umekar, GS Bhusari, T. Shrirame, S. Yerpude, V. Devthade, RG Chaudhary*	Elsevier	<i>Biogenic Sustainable Nanotechnology:Trends and Progress</i> 10.1016/B978-0-323-88535-5.00005-6 Pages: 150-174 (https://www.sciencedirect.com/science/article/pii/B9780323885355000056)
04	Rationale and Trends of Applied Nanotechnology	RP Singh, A R. Rai, RB. Jotania, RG Chaudhary* and AA. Abdala	Elsevier	<i>Biogenic Sustainable Nanotechnology:Trends and Progress</i> 10.1016/B978-0-323-88535-5.00008-1 Pages: 373-385 (https://www.sciencedirect.com/science/article/pii/B9780323885355000081)
05	Phytofabrication of nickel-based nanoparticles: focus on environmental benign technology and therapeutic perspectives	KM Dadure, A. Haldar, D. Mahabatra, AK Potbhare, RG Chaudhary	Elsevier	<i>Biogenic Sustainable Nanotechnology:Trends and Progress</i> 10.1016/B978-0-323-88535-5.00016-0 Pages: 41-51 (https://www.sciencedirect.com/science/article/pii/B9780323885355000160)
06	Graphene-Polymer Nanocomposites for Environmental Remediation of Organic Pollutants	T. S. Shrirame, J. S. Khan, M. S. Umekar, A. K. Potbhare, G.S. Bhusari, D.T.	Springer	<i>Metal Nanocomposites for Energy and Environmental</i>

		Masram, A. Abdala and R. G. Chaudhary*		<i>Applications</i> , doi./10.1007/978-981-16-8599-6_14 (https://link.springer.com/chapter/10.1007/978-981-16-8599-6_14)
07	Computational analysis of the nanofluids-based drug delivery system	S. Yerpude, A.K. Potbhare, P.R. Dhongle, M.F. Desimone, and R.G. Chaudhary*	Elsevier	<i>Applications of Nanofluids in Chemical and Bio-medical Process Industry</i> 10.1016/B978-0-323-90564-0.00014-3 Pages: 335-364
08	Industrial Solid Waste: An Overview	N.B. Singh and R.G. Chaudhary	Elsevier	<i>Advanced Materials from Recycled Waste</i> 10.1016/978-0-323-85604-1 (https://www.sciencedirect.com/science/article/pii/B9780323856041000184)
09	Management of Nanomaterials Waste	N.B. Singh and R.G. Chaudhary , M.F. Desimone, W.B.Gurnule	Elsevier	<i>Nanomaterials Recycling</i> doi.org/10.1016/B978-0-323-90982-2.00007-X (https://www.sciencedirect.com/science/article/pii/B978032390982200007X)
10	Phytofabrication of Iron-based Nanoparticles and their Therapeutic Potentials: In-depth Insights into the Recent Progress	A. Haldar, D. Mahabatra, KM Dadure, RG Chaudhary*	Elsevier	<i>Biogenic Sustainable Nanotechnology: Trends and Progress</i> 10.1016/B978-0-323-88535-5.00014-7 (https://www.sciencedirect.com/science/article/pii/B9780323885355000147)
11	Functionalized Carbon Nanomaterials: Fabrication, Properties and Applications	P. R. Bhilkar, R. S. Madankar, T. S. Shirrame1, R.D. Utane, A.K. Potbhare1, S. R. Thakare, A. A. Abdala, and R. G. Chaudhary*	MRF	<i>Emerging nanomaterials and their impact on society in the 21st century</i> 10.21741/9781644902172-4 (https://www.mrforum.com/product/9781644902172-4/)
12	Thermo-physical and optical properties of the nanofluids	SS Sonwane, P. Thakur, RG Chaudhary	Elsevier	<i>Applications of Nanofluids in Chemical and Bio-medical Process Industry</i> 10.1016/B978-0-323-90564-0.00006-4 Pages: 27-51
13	Magnetic Nanoparticles: Fabrications and Applications in Cancer Therapy and Diagnosis	T.S. Shirrame, Pavan Bhilkar, A.R. Rai, R.P. Singh, S.R. Thakare*, A.A. Abdala* and R.G. Chaudhary*	MRF 143 (2023) 199-232	<i>Magnetic Nanoparticles for Biomedical Applications</i> (10.21741/9781644902332-7) (https://www.mrforum.com/product/9781644902332-7/)

14	Emerging Nanomaterials in Energy Storage	A. Mondal, H.Das, S. Mondal, VN. Sonkusare, Ratiram G Chaudhary	MRF	Emerging Applications of Nanomaterials (10.21741/9781644902295-12) (https://www.mrforum.com/product/9781644902295-12/)
15	Advanced Materials and Processing Techniques	S.S. Bhuyar, S.S. Kharkate, A.K. Potbhare, M. Nagmote, and R.G. Chaudhary*	Bentham Science	2023, Vol. 4, 247-271 Frontiers in Nanomedicine (10.2174/9789815136951123040009) (https://www.eurekaselect.com/public/chapter/19507)
16	Nanotechnology: Fundamental Aspects, Biomedical and Technological Applications	Indrani Das Sarma*, Debashis Bhowmick, Pawan Bhilkar, R Sharma and R. G. Chaudhary*	MRF	Nanobiomaterials 145 (2023) 1-18 (https://doi.org/10.21741/9781644902370-1)
17	Emerging Trends of Nanotechnology in Cosmetics	Garima Nagpal, Rashi Chaudhary, Ratiram G Chaudhary, N.B. Singh	MRF	Applications of Emerging Nanomaterials and Nanotechnology 148 (2023) 127-169 (https://www.mrforum.com/product/9781644902554-5/)
18	Nanomaterials as Photocatalyst	Ajay K. Potbhare, Pavan R. Bhilkar, Sachin T. Yerpude, Rohit S. Madankar, Sampat R. Shingda, Rameshwar Adhikari, Ratiram G. Chaudhary	MRF	Applications of Emerging Nanomaterials and Nanotechnology 148 (2023) 304-333 (https://www.mrforum.com/product/9781644902554-11/)
19	Sustainable Nanofillers in Antibacterial and Antifungal Coating Materials	K. Shrivastav, N. Deshttiwar, AK. Potbhare, P. Bhilkar, T. Shrirame, S. Yerpude, RG Chaudhary*	Elsevier	In press
20	Nanomaterials and Nanocomposites with Sonochemistry	P.R. Bhilkar, A.K. Potbhare, M.S. Nagmote, R.B. Jotania, Marcelo Marques, Martin F Desimone, and R.G. Chaudhary*	CRC Press	In press
21	Role of carbonaceous fullerene materials in crop improvement and targeted pesticide management	RS. Madankar, PR Bhilkar, Ashish D. Tiple, Manjiri Nagmote, AK. Potbhare, Rohit Sharma, AA Abdala, and RG Chaudhary*	Elsevier	In press
22	Bioremediation of Heavy Metals Using Microorganisms	M.S. Nagmote ¹ , A.R. Rai ² , R. Sharma ³ , M.F. Desimone ⁴ , R.G.	CRC Press	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003188568-

		Chaudhary^{1*} , and N.B. Singh ^{5*}		11/bioremediation-heavy-metals-using-microorganisms-nagmote-rai-sharma-desimone-chaudhary-singh (Genetically Engineered Organisms in Bioremediation)
23	Insights into Progressive Perspectives of Solid Lipid Nanoparticles in Brain Targeting	Debarshi Kar Mahapatra ^{1*} , Kanhaiya M. Dadure ² , Animeshchandra G. M. Halder ³ , Rohit Sharma ^{4*} and Ratiram G. Choudhary^{5*}	CRC Press	In press

Any other Information:

Research Guidance:

Total Nos. of PhD Students Awarded: **06**

Total Nos. of M.Sc Project Dissertation Completed: **55**

Total Nos. of PhD Students Pursuing: **03**

Total Nos. of M.Sc Project Dissertation Pursuing: **12**

Delivered Invited Talk in International Conferences/Webinars:

1. Invited talk “**Bioinspired Nanomaterials and their Potential Applications**” in ‘**Nanobiotechnology Course** on 7th July 2023 organized by **Department of Chemistry, UBA, Buenos Aires, Argentina**
2. Invited talk “**Bioinspired Nanoscale Materials Synthesis: Economical and Sustainable Approach**” in **काठमाडौं हम्बोल्ड (ट) सम्मेलन | KATHMANDU HUMBOLDT-KOLLEG 2022 (KHK – 2022)** held during October 16-19, 2022, at **Kathmandu, Nepal.**
3. Invited talk “**Green Nanotechnology: A Road Map to Safe Technology**” at Research Cell of Department of Chemistry, Kathmandu University, **Kathmandu, Nepal.**
4. Invited talk “**Facile approaches for the synthesis of Nano-Micro structures: Electron spectroscopy and applications**” in ‘**European Advanced Material Congress**’ (EAMC-18) during **20-23 August 2018** at **Stockholm, Sweden**
5. Invited talk “**Biogenic Synthesis: Green and Economical Approaches**” in ‘**Nanobiotechnology Course** on 7th July 2020 organized by **Department of Chemistry, UBA, Buenos Aires, Argentina**
6. Invited talk “**Phytofabrication: Green and Sustainable Approaches**” in ‘**National Webinar on Green and Sustainable Chemistry** held on 22nd July 2020 at **North Bengal University, West Bengal.**
7. Invited talk in Ten days National level Lecture series in Memory of Late Shri.Bhikulalji Nabira on the topic “**Research Article Writing, Citation and Indexing**” organized by Nabira Mahavidyalaya Katol.

8. Delivered invited talk “**Research Article Writing, Citation and Indexing**” on **3rd June 2022** in One Week Faculty Development Program jointly organized by Vidya Vikas Arts Commerce & Science College, **Samudrapur** with Shree Shivaji Arts Commerce & Science College, **Rajura, Maharashtra**.
9. Invited talk “**Synthesis, characterization and applications of nanocomposite**” in ‘**International Conference on Nanomaterials and Nanotechnology**’ (ICNANO-17) during **01-03 March 2017** at Vinobha Bhave Institute, **Allahabad**
10. Invited talk “**NiO-SiO₂ nanocomposites: An efficient reusable catalyst and some biological approach**” in **International Conference on Macromolecules (ICM)** on **13-15 May 2016** organized by MGU **Kottayam, Kerala**
11. Invited talk “**Metal oxide nanoparticles: Synthesis, characterization, efficient catalytical and biological applications**” in ‘**World Congress on Microscopy**’ (WCM-15) held during **8-10 October 2015** organized by MGU **Kottayam, Kerala**

Resource Person/ Inaugural talk in Various Scientific/Social Programs:

1. Delivered talk on ‘*Guidelines for PhD Program And Sustainability of Ethical Research*’ at Nabira Mahavidyalaya Katol on 16th January 2023.
2. Delivered talk on ‘*Researching and Writing Master Dissertation*’ at Nabira Mahavidyalaya Katol on 16th January 2023.
3. Inaugural talk on ‘*Career Opportunity in Chemistry and Research Avenue*’ at *M.P. Deo Dharmpeeth Science College, Nagpur* on 24th September 2022.
4. Inaugural talk on topic ‘*Why We Do Scientific Research*’ at *DRB Sindhu Mahavidyalaya Nagpur* on 16th September 2022
5. Inaugural talk on topic ***Green Nanotechnology: A Road Map to Safe Technology***” at Tai Golwalkar Mahavidyalaya, **Ramtek** on 6th December 2021.
6. Delivered talk-cum practical demonstration on “***Chemistry is Mystery of Chemicals***” in Indradhanushya: Exhibition-cum-Demonstration Program was jointly organized by Yuvak Samajik Jankalyan Sanstha, Nagpur with Society for Promotion of Materials Sciences, Nagpur at High School, Pannase, Tahsil-Hingna, District-**Nagpur** during 21-23rd September 2021.
7. Delivered talk-cum practical demonstration on “***Food Adulteration***” in Indradhanushya: Exhibition-cum-Demonstration Program jointly organized by Yuvak Samajik Jankalyan Sanstha, Nagpur with Society for Promotion of Materials Sciences, Nagpur at Vidya Krushi Vikash High School, Bhuyar, Tahsil-Pauni, District-**Bhandara** during 20-22nd October 2021.
8. Delivered talk-cum practical demonstration on “***Measurements of Hardness of Water: Its Negative Impacts on Daily Life***” in Indradhanushya: Exhibition-cum-Demonstration Program jointly organized by Yuvak Samajik Jankalyan Sanstha, Nagpur with Society for Promotion of Materials Sciences, Nagpur at Yashvant Kanishta Mahavidyalaya, Sevagram, District-**Wardha** during 15-17th December 2021.

Chaired the Session in International Conferences:

1. Chair the session in ‘**World Congress on Microscopy**’ organized by M.G. University, Kottayam on 9/10/2015.
2. Chair the session in ‘**International Conference on Macromolecules**’ at M.G. University, Kottayam on 14/05/ 2016.
3. Chair the session in ‘**International Conference on Nanomaterials and Nanotechnology**’ (ICNANO-17) at the Vinobha Bhawe Institute, Saidabad, Allahabad on **02/03/2017**.
4. Chair the session in ‘**National Webinar on Green and Sustainable Chemistry**’ organized by **North Bengal University, West Bengal** held on **22nd July 2020**.
5. Chairperson and judges to evaluate an Oral/Poster presentation in International Webinar on Recent Trends in Science & Technology organized by Govt. VYT PG Autonomous College, Durg (C.G.)
6. Chairperson and judge for assess an Oral Presentation at International Conference on New Horizons and Trends in Chemical Sciences organized by DRB Sindhu Mahavidyalaya, Nagpur
7. Chairperson and judges Oral presentation at International Conference on Innovation in Technology, Engineering, Science and Humanities for Sustainable Development organized by **Priyadarshani J.L. College of Engineering, Nagpur**.
8. Chair the session in the **काठमाडौं हम्बोल्ड (ट) सम्मेलन | KATHMANDU HUMBOLDT-KOLLEG 2022 (KHK – 2022)** held during October 16-19, 2022, at **Kathmandu, Nepal**.
9. Chair the session in the ‘**National Symposium on Functional Materials for Sustainable Development**’ organized by NASI Nagpur Chapter in association with R.T. M. Nagpur University, Nagpur during 10-12th October 2022.

Event Organized:

1. 11th **National Conference on Solid State Chemistry and Allied Areas (NCSCA-2019)** held on 20-21st December 2019 at Hotel Tuli Imperial, Nagpur
2. **State Level Seminar Competition in Chemistry (SSCC)** held on **22nd Feb. 2019** at S.K. Porwal College, Kamptee
3. **State Level Seminar Competition in Chemistry (SSCC)** held on **18th Feb. 2020** at S.K. Porwal College, Kamptee
4. International Webinar on “**Researching and Writing a Master Dissertation**” held on **25th May 2020**.
5. National Webinar on “**Writing and Evaluation of Scientific Research Articles**” held on **31st July 2021** organized in collaboration with Taywade College, Koradi.
6. National Webinar on “**Career Prospects**” held on **21st Aug 2021** organized in association with Dr. Ambedkar College.
7. Convenor of “**National Level Free Online Workshop on IPR-Patents, Designs Process**” jointly organized with Rajiv Gandhi National Institute of Intellectual Property Management, Govt. of India, *Nagpur* (RGNIPM).
8. Convenor of Two Day International Transdisciplinary Conference on “**Integrated Approach in S&T for Sustainable Future (ICIASTSF)**” collaboratively organized with Dr. Ambedkar College Nagpur, Priyadarshini J.L. College of Engineering Nagpur and P.G.T.D of Molecular Biology & Genetic Engineering RTMN University Nagpur.

As a Peer-Reviewer for SCI/Scopus Journals (45):

1. Scientific Reports; 2. Environmental Chemistry Letter; 3. Journal of Thermal Analysis and Calorimetric;
4. Journal of Nanoparticles Research; 5. Research on Chemical Intermediates; 6. Journal of Bionic

Engineering; **7.** Chemical Papers; **8.** Journal of Inorganic and Organometallic Polymers and Materials; **9.** BioNanoScience; **10.** Applied Organometallic Chemistry; **11.** Microscopy Research and Techniques; **12.** ChemistrySelect; **13.** Chemical Engineering Journal; **14.** Science of the Total Environment; **15.** Journal of Solid State Chemistry; **16.** Chemical Physics Letters; **17.** Materials Today: Proceedings; **18.** Advanced Materials Letters; **19.** Advances in Natural Sciences: Nanosciences and Nanotechnology, **20.** Green Materials; **21.** Journal of Applied Pharmaceutical Sciences; **22.** American Journal of Chemistry and Application; **23.** Journal of Physics and Chemistry of Solids; **24.** Frontiers in Materials; Frontiers in Molecular Biosciences; **25.** Frontiers in Bioengineering and Biotechnology; **26.** Particulate Science and Technology; **27.** Journal of Experimental Nanoscience; **28.** Journal of Nanomaterials; **29.** BioMed Research International; **30.** Current Research in Green & Sustainable Chemistry **31.** Frontier in Molecular Chemistry; **32.** Journal of Nanotechnology; **33.** Nano Biomedicine and Engineering; **34.** MRS Communications; **35.** Nanotechnology Reviews; **36.** Karbala International Journal of Modern Science; **37.** Bioinorganic Chemistry and Applications; **38.** Journal of Nanotechnology; **39.** IEEE Transactions on Plasma Science; **40.** RSC Advances; **41.** Journal of Testing and Evaluation; **42.** ACS Omega; **43.** BioMetals; **44.** Journal of Healthcare Engineering; **45.** Applied Microbiology and Biotechnology; **46.** Journal of Taibah University for Sciences; **47.** Antibiotics; **48.** International Journal of Molecular Sciences; **49.** Agronomy; **50.** Molecules; **51.** Sustainability; **52.** Heliyon; **53.** International Journal of Ambient Energy; **54.** Journal of Hazardous Materials; **55.** Inorganic Chemistry Communication; **56.** Advanced Powder Technology; **57.** Applied Sciences; **58.** Materials; **59.** Materials Today Communication; **60.** Chemosphere; **61.** International Journal of Nanomedicine; **62.** Biomaterials Advances; **63.** Journal of Biomaterials

Paper Presented in Conferences: International: **24**, National: **46**; **Attended in Conf.:** National: **35**.

Professional Recognition/Administrative Experiences:

1. VC-nominated RAC member for various research centers “Place for Higher Learning and Research” of RTM Nagpur
2. ‘Zonal officer’ in 9-Ramtek Parliamentary LAC, 2013-14 in Lok Sabha and Vidhansabha Elections
3. Acted as “Presiding Officer” in various election duties of Government of India
4. As a ‘Dy-coordinator’ in DRDO entry test examinations CEPTAM-07 and CEPTAM-08
5. External Examiner for valuation/Practical for P.G/U.G. examinations of RTM Nagpur University and other university
6. Convener of ‘Research Cell Committee’ in working Institute
7. Coordinator of ‘Supervisor Advisory Committee’ in working Institute
8. Member of ‘Research Advisory Committee’ in working Institute
9. Member of IQAC in working Institute
10. Coordinator of Post-Graduate Department of Chemistry in working Institute.
11. Worked as Observer to conduct the NEET (UG) Entrances Exam. for admission of all medical courses (NTA-TA-O-30409) held on 12th Sept. 2021.

Life Membership in Scientific Bodies:

1. Member of American Chemical Society, **America (ACS)**
2. Life Membership of International Association of Advanced Materials, Stockholm, **Sweden (IAAM)**
3. Life Membership of Indian Science Congress Association, **Kolcutta (ISCA)** (L42625)
4. Life Membership of Indian Association for Solid State Chemist & Allied Scientist, Jammu (**ISCAS**) (LM-363)
5. Life Membership of Indian Thermal Analysis Society, Mumbai (**ITAS**) (LM-493)
6. Life Membership of Indian Thermodynamic Society, Gujrat (**ITS**) (LM-227)
7. Life Membership of RTMN University Chemistry Teacher Association, Nagpur (**RTMNUCTA**) (LM-127)
8. Life Membership of Association of Chemistry Teacher, Mumbai (**ACT**) (LM-1971)
9. Life Membership of Society for Promotion of Materials Sciences (**SPMS**)

This CV submitted is most current and correct as of the date of this signature.

(**Ratiram Gomaji Chaudhary**)
Kamptee, Nagpur, India, 30th October 2023