

BIO - DATA

Name : Jitendra Kashinath Gunjate
Date of Birth : 21-02-1979
Designation : Professor
Institution : Science College
Congress Nagar, Nagpur
Educational Qualification: M.Sc., B.Ed., SET, NET, GATE, PhD
Specialization : Organic Chemistry

Name of Examination	University	Division	Year	Subject
B. Sc.	Amravati	I	1999	Botany, Zoology, Chemistry
M. Sc	Amravati	I	2001	Organic Chemistry
NET, SET	--	--	2002	Chemistry
GATE			2004	Chemistry
B.Ed.	Nagpur	I		
Ph.D.	RTM Nagpur		2016	Structure and Surface Properties of Granular activated carbon in relation to adsorption mechanism and kinetic study.

Teaching Experience :-

- i) U. G.: 19 years, Science College, Nagpur
- ii) P. G.: 13 Years

Research Guidance : Registered two students, research ongoing.

Name of student	Topic of Research Work
Mr. Aniket Madankar (Date of registration 14/03/2022)	Design & synthesis of Hybrid g-C ₃ N ₄ based photocatalyst by morphological modification for Environmental remediation
Mr. Pankaj Ledade (Date of registration 14/03/2022)	Development of Novel methodologies using green catalysts for the synthesis of N-Heterocycles
Mr. Sandip Dautpure (Date of registration 01/09/2023)	Thermal, electrical and photoluminescence studies of Vanillin copolymers and its composites

Research Papers Published in Journals :

- 1) An efficient synthesis of trisubstituted purine via unusual coupling of N-phthaloyl derivatives of amino acids, International journal of Chem Tech Research Vol. 5, No. 6 ISSN : 0974-4290 pp 3023-3031 Dec 2013
- 2) Effect of surface modification of granulated carbon on removal of metal content, International Journal of Research in Biosciences, Agriculture and Technology Issue 2, Vol. 1, January-2014, PP. 494-499, ISSN 2347-517X
- 3) A simulation study of the removal efficiency of modified granular activated carbon on cobalt, International Journal of chemical and physical sciences Vol. 3, No. 2 April-2014, PP. 29-34, ISSN 2319-6602
- 4) Removal of Co^{2+} ions from aqueous solution by adsorption onto modified granular activated carbon, Pelagia Research Library Der Chemica Sinica (Sp issue2), 5(3), 2014, PP. 5-9, ISSN 0976-8505
- 5) Adsorption studies of cobalt ions on surface modified granular activated carbon, Journal of Environmental Research and Development , Vol. 9, (2), Dec. 2014, pp.293-297, ISSN : 0973-6921
- 6) Selective adsorption of cobalt in aqueous solution using chemically modified activated carbon, IOSR Journal of Environmental Science, Toxicology and Food Technology Issue 9, Vol. 10 Sep. 2016, pp. 161-165 ISSN. 2319-2399
- 7) Adsorption studies of cobalt using activated carbon in presence of 2-Hydroxy-5-Methoxybenzoic acid, International journal of Researches in Biosciences, Agriculture and Technology . Issue-2, vol V July. 2017, pp- 1068-1072, ISSN 2347-517X
- 8) Adsorption of Cobalt onto Coal based Granular Activated Carbon : Kinetics and Equilibrium Studies, International journal of Applied Environmental Sciences Vol-12, 2017, PP.1045 –1058, ISSN 0973-6077
- 9) Removal of Pb^{2+} from dilute aqueous solution using modified granular activated carbon in batch mode, Global journal of multidisciplinary Studies (Special issue-4) Vol-8, March 2018, PP. 77-83, ISSN 2348-0459.
- 10) Adsorption based recovery of cobalt using chemically modified activated carbon, Elsevier Materials Today proceedings June 2020 pp 1150-1155 ISSN 2214-7853
- 11) Studies on adsorption characteristics of manganese onto coal based chemically modified activated carbon, Elsevier Materials Today proceedings June 2020 pp 1185- 1191 ISSN 2214-7853.
- 12) Assessing pesticidal formulation for Lamda –Cyhalothrin content, Bionfolet 17 (3B) pp 483-484, 2020

- 13)** Synthesis and antimicrobial evaluation of 2,6,9-trisubstituted purine coupled with L-methionine derivatives at C2 position, Vidyabharati international interdisciplinary research journal, ISSN 2319-4979, June 2020.
- 14)** Synthesis and properties of visible light active novel $Ce_{0.5}Zr_{0.5}O_2$ for photocatalytic decomposition of organic dye from water, Vidyabharati international interdisciplinary research journal, ISSN 2319-4979, 733-745, June 2020.
- 15)** Synthesis of 1,3,4-thiadiazoles and its isomerisation by neotric route and antimicrobial activity, Vidyabharati international interdisciplinary research journal, ISSN 2319-4979, 746-749, June 2020
- 16)** Synthesis of Oxygen & Nitrogen containing heterocycles using Zirconiumdioxide/mixed oxide nanoparticlesreusable greencatalyst:A comprehensive update, Current organic chemistry journal Bentham Science Publisher, pp 223-241, vol. 27. No.3, 2023 (session 2022-23),
- 17)** Nitrogen containing fused heterocycles : Organic synthesis and applications as a potential anticancer agents , Current organic chemistry journal (Bentham Science Publisher), pp 206-222, vol. 27. No.3, 2023 (session 2022-23).
- 18)** Recent developments in the organic synthesis using nano $-NiFe_2O_4$ as reusable catalyst : A comprehensive synthetic & catalytic reusability protocol Results in Chemistry (Elsevier) 6(2023) 101176

Full papers in conference proceedings :

Sr. No.	Title with page numbers	Details of Conference Publication	ISSN/ISBN No
1	“Stepping up with Bio-Scientific Technologies” Pp 212-219	National Congress organized by J.B. Science College Wardha 27,28 Jan 2012	ISBN No. 978-81-903603-9-5

Paper Presentation in Conferences :

Sr. No.	Title of the paper	Title of Conference / Seminar	Organised by	Whether international /national / state / regional / college or university level
1	Effect of Surface groups in Scavenging the cobalt from aqueous phase using Granular Activated Carbon	Materials : Atom to Molecule	Science College , congress nagar , Nagpur (16 Dec. 2011)	National
2	Studies on diffusion approach of metal ions onto chemically modified adsorbents	International conference on "Futuristic materials and emerging trends in forensic and life sciences"	PG teaching department of chemistry, RTMNU, Nagpur(5 th -7 th 2015)	International
3	"Assessment of efficiency of granular activated carbon for removal of cobalt from aqueous solution"	National Conference on "Sustainable chemistry : Frontiers and Challenges "	Brijlal Biyani Science College , Amravati (30-31/01/2015	National
4	"Scavenging the metal ions from waste water using activated adsorbents"	National Conference on " Impact on Human action on environment"	Science College , Pauni	National
5	"Adsorption studies on metal content onto chemically modified porous adsorbents"	National Conference on "Chemical sciences ; emerging Scenario and challenges"	Department of chemistry SGBAU , Amravati (29-30/01/2016)	National

6	“Studeies on Adsorption Performance of Cobalt onto Fe ₃ O ₄ Nanoparticle”	National Seminar on “ Nanotechnology : Today and Tomorrow”	J.B. Science College , Wardha 28/02/2016	National
7	“Formulation of Mathematical Models in the Adsorption Study of Cobalt using Granular Activated Carbon”	National Seminar on “ Recent Trends in Life Sciences and Material Science”	Rashtrapita Mahatma Gandhi Arts and Science College, Nagbhid (14-15/03/2016)	National
8	Removal efficiency of Fe ₃ O ₄ nanoparticles on Lead “	One Day National Seminar on “ nanotechnology and Nanoengineering”	Department of Chemistry Arts , Commerce and Science College Amravati 29/09/2016	National
9	“ The Adsorption Study of Cobalt using Granular Activated Carbon”	National Seminar on “Environmental Security ”	D. B. Science , Gondia (27/12/2016)	National
10	Evaluation of effects of surface parameters of actiated carbon on kinetics of cobalt ion removal from aqueous phase	National Conference on “Innovative research in science and technology”	Shri shivaji Science College Amravati (17-18Dec. 2019)	National
11	Studies on kinetics approach in scavenging metal content from artificial waste water	International Conference on “Advanced functional materials”	Kamla Nehru mahavidyalaya, Nagpur (23-25 January 2020)	International

Patent Publication : Papent Number : **202421039419A**

Publication Date **21/06/2024**

Title of Invention : “**An Improved protocol for the preparation of Trazodone (TZ) Trazodone Hydrochloride Salt**”

Responsibilities:

- 1) Worked as Treasurer in National Conference on Materials: Atom to Molecule held organized by Science College Nagpur on 16th Dec 2011.
- 2) Worked as a Treasurer in National conference on Nanomaterials : New horizon for betterment of mankind organized by Science College, Nagpur on 28/2/2013 .
- 3) Worked as a Convener of College Admission committee.
- 4) Worked as Training and Placement officer during 2007-2010.
- 5) Worked as a Coordinator of UGC Sponsored NET- SET coaching programmed from 2010
- 6) Worked as a Convener of Student Attendance Monitoring Committee
- 7) Working as a convener of Student Council.
- 8) Worked as a Convener of competitive examination committee
- 9) Worked as a Paper setter for UG & PG exam of RTM Nagpur University, Nagpur.

Membership: 1) Chemistry teachers association, Nagpur.

2) Indian Science Congress Association

Date:

Dr. Jitendra K. Gunjate