

CURRICULUM VITAE

Prof.(Dr.) Dipak Sinha, FRSC, FNSA

(DST-BOYSCAST FELLOW)

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Vidwan-ID

Vidwan Score: 10

<https://vidwan.inflibnet.ac.in/profile/209765>

EDUCATION

Ph.D. : North Eastern Hill University, Shillong, 1998
Post Doc. : Hahn-Meitner-Institute, Berlin, Germany, 2013-2014 (DST-BOYSCAST Fellowship)

TEACHING EXPERIENCE

P.G. Teaching Experience *since 1998*

ADMINISTRATIVE EXPERIENCE

Position Held	Department/Bodies/Organization etc.	Period
Pro-Vice Chancellor	Nagaland University	21 st March, 2025 onwards
Chief Vigilance Officer	Nagaland University	16 th March, 2023 onwards
Nodal Office NEP 2020	Nagaland University	22 nd October, 2022 onwards
Director, IQAC	Nagaland University	18 th Oct. 2022 to 17 th Oct., 2024
Director, IQAC	Nagaland University	15 th Oct. 2019 to 19 th Dec. 2021
Dean, Students' Welfare	Nagaland University	10 th July, 2014 to 19 th April, 2016
Head	Department of Chemistry	20 th April, 2016 to 21 st April, 2019
Head (i/c)	Department of Chemistry	20 th April, 2015 to 20 th Feb. 2016
Head	Department of Chemistry	10 th August 2010 to 6 th March, 2013
Students' Welfare In charge	Nagaland University, Lumami Campus	20 th July, 2009 to 19 th July 2011
DST-FIST Coordinator	Department of Chemistry, Nagaland University	6 th Feb, 2017 to 25 th April, 2019

POSITIONS HELD (ACADEMIC)

Assistant Professor, Nagaland University	10-10-98 to 29-09-08
Reader	30-09-08 to 29-09-11
Associate Professor	30-09-11 to 29-09-14
Professor	30-09-2014 to 29-09-24
Senior Professor	30 th Sept, 2024 onwards
Guest Scientist, H.M.I., Berlin, Germany (Under DST-BOYSCAST Young Scientist Fellowship)	31-03-04 – 30-03-05

INVOLVEMENT IN DIFFERENT UNIVERSITY ACADEMIC/OTHER BODIES

Member	Executive council, Nagaland University
Member	Finance Committee, Nagaland University
Member	Academic Council, Nagaland University
Member	Planning Board, Nagaland University
Member	Board of Research Studies, Nagaland University
Member	Building Construction Committee
Member	School Board of Sciences, Nagaland University
Chairman	Board of Post-Graduate studies in Chemistry, Nagaland University
Chairman	Board of Undergraduate studies in Chemistry, Nagaland University
Member	Board of studies (different BoS) under Nagaland University
Member	Building Construction Committee

RESEARCH CONTRIBUTION

Ph.D. Guided	Journal Publications	Patents	Book	Chapter in a book
10 awarded 5 working	100	13	1	4

AREA OF RESEARCH

- Ion track technology
- Gamma interaction with nuclear track detectors
- Environmental Radon studies
- Photo catalysis
- Application of activated carbon/carbon composite for environmental studies
- Synthesis and applications of Graphene based nano composite

MEMBER OF PROFESSIONAL BODIES/ORGANIZATIONS

- Life Member of Nuclear Track Society of India (NTSI)
- Life Member of Indian Association of Nuclear Chemists and Allied Scientists (IANCAS)
- Life Member of Indian Association for Solid State Chemistry and Allied Sciences (IASCAS)
- Life member of Indian Council of Chemists
- Zonal Secretary (North-Easter Zone) of Indian Council of Chemists for three years since January, 2012 and reelected for second term.
- Executive Member, Nuclear Track Society of India, since 2013
- Life Member, Indian Science Congress
- Life Member, National Environmental Science Academy

AWARDS/HONOURS/RECOGNITION RECEIVED

- Awarded Fellow of Royal Society of Chemistry in the year 2024 by Royal Society of Chemistry
- Awarded National Environmental Science Academy Fellowship, 2019 (FNESA) by NESAC, New Delhi
- Department of Science & Technology, Govt. of India (DST) **Young Scientist Fellowship BOYSCAST** (*Better Opportunities for Young Scientist in the Chosen Area of Science & Technology*) was awarded in the year 2003-2004, to carry out Post doctoral Research at HMI Institute, Berlin, Germany for one year

- Vidwan Score of **10 out of 10**, (the highest Vidwan score possible)
- Best Paper award in 2nd International Conference on “Recent Trends in Materials Science and Devices (ICRTMD 2023)”, 29-31 December, 2023, organized by Research Plateau Publishers and Sat Kabir Institute of Technology & Management, Bahadurgarh (Haryana) India Title of the talk : Photocatalytic degradation of Phenol wastewater by co-doped TiO₂ activated carbon nanocomposite
- Outstanding Scientist Award 2020, by VDGGOOD Professional Association
- Fellow of Indian Council of Chemist (FICC)
- Awarded Prof. Gopala Rao Centenary Commemorative Award in the 30th Annual Conference of the Indian Council of Chemists, held at Osmania University during the period 28th -30th Dec, 2011.
- CSIR Senior Research Fellowship was awarded for three years (1996- 1999)
- Awarded as Best Paper in Nuclear and Radiochemistry symposium (NUCAR-95), Feb, 1995, IGCAR, Kalpakkam .
- University Merit Award (NEHU) for the period 1990-1992
- Two papers were considered as one of the top cited articles in the year ,2020, by Sustainable Chemistry and Pharmacy (Elsevier Journal, IF : : **5.464**)
- Two papers were considered as one of the top cited articles in the year ,2021, by Sustainable Chemistry and Pharmacy (Elsevier Journal , IF : : **5.464**)
- One paper were considered as one of the top cited articles in the year ,2022, by Sustainable Chemistry and Pharmacy (Elsevier Journal , , IF : : **5.464**)
- “On progress and status of research in Nagaland University” published in Indian J. Sci. Res. 11 (2): 133-136, in 2015, **D. Sinha** was considered as Top author in Nagaland University.
- “Scientometric Analysis of Research Output among Central Universities of North-East India during 2012-2021” published in College Libraries , Vol. 37 No. I March 2022 , **D. Sinha** was considered the most productive author of Nagaland university during this period.
- One of the Best Ten Scientist of Nagaland University as per **AD Scientific Ranking Index**, 2020, 2021, 2022, 2023, 2024.

SOME SIGNIFICANT CONTRIBUTION

- Submitted SSR of Nagaland University in the Year 2023 as Director, IQAC
- Submitted AQAR of Nagaland University for the period 2014 to 2021 (as Director, IQAC)
- Implemented Curriculum and Credit Frame work for UG courses of Nagaland University as part of NEP-2020 from academic session 2023 as Nodal Officer NEP-2020
- Implemented CBCS with NEP for UG courses of Nagaland University in the Year 2022 as Nodal Officer - CBCS for Nagaland University
- DST-FIST programme for Department of Chemistry was proposed and Implemented (2017-2019)
- Convener, University Ordinance , 2018
- Organized Inter Campus Cultural cum Literary Meet 2009 (NEFEST 2009) as Student’s Welfare In charge

INVOLVEMENT IN DIFFERENT ACADEMIC BODIES OTHER THAN NAGALAND UNIVERSITY

- Member Coordinator, NAAC Peer Team, KZS SCIENCE COLLEGE, BRAMHANI-KALMESHWAR, Nagpur during the period 24/10/2024 to 25/10/2024
- Member Coordinator, NAAC Peer Team, JSPM, JAYAWANTRAO SAWANT COMMERCE AND SCIENCE COLLEGE, Pune during the period 03/10/2024 to 04/10/2024
- Member, UGC North Eastern Zonal Committee for the implementation of NEP-2020, 2024
- Member, Academic Council, Kohima Science College (Autonomous College), Nagaland since 2024
- NAAC Assessor since 2024
- Member, Academic Council from 21/02/2022 to 20/02/2024, St. Joseph's College (Autonomous College), Jakhama, Kohima, Nagaland
- Member, Task Force, National Education Policy (NEP-2020), Govt. of Nagaland
- Member, Board of Studies in Chemistry, Krishna University, Andhra Pradesh 2020
- University Representative, Governing body of Saochang College, 02-11-11 to 02-11-14,
- University Representative, Governing body of Fazl.Ali College, 2014-2017
- Member, IQAC, Fazl Ali College, 24-09-10 to 24-09-2017
- Member, College Advisory Committee, Fazl Ali College, 20-08-09 to 20-08-2012
- University Representative, Governing body, Kohima Science College, 2014-2017
- University Representative, Governing body Mokokchung law College, Mokokchung, 2018-2021
- University Representative, Governing body Loyem Memorial College, Tuensang, 2021-2024

UNIVERSITY ASSIGNMENTS (Some Selected ones)

- Chairman, Standing Committee on NEP-2020, Nagaland University , 2024
- Member, Research and Innovation Committee, Nagaland University, 2024
- Member, Building Construction Committee, Nagaland University, 2024
- Convener, Committee to frame eligibility guidelines of Teachers for reimbursement of papers and patents
- Member, Committee to frame common regulations for all Paramedical Courses under Nagaland University
- Convener, Committee to workout guidelines for counting past service for CAS promotion, 2023
- Convener, Committee to draft the guidelines for SWAYAM, 2023
- Planning Committee member for Organizing 25th Silver Jubilee of NUSU(L), 2023
- Chairman, Preparation of Curriculum and Credit framework for undergraduate programme (CCFUP), 2022
- Nodal Officer, NIRF , Nagaland University, 2022
- Nodal Officer, NEP 2020, Nagaland University, 2022
- Nodal Officer, CBCS Implementation committee Nagaland University, 2022
- Member, Organizing Committee, University Convocation , 2022, 2024
- Convener, CBCS Implementation committee for undergraduate courses, Nagaland University, 2021
- Member Secretary, Planning and framing of guidelines for implementation of NEP 2020
- Secretary, Committee to frame guidelines for counting API for promotion and status of UGC approved journals
- Coordinator, OBC Cell, Nagaland University, 2019 onwards till December, 2023
- Convener, University Ordinance , 2018
- Nodal Officer, IPR Cell, Nagaland University form 4th December, 2018 onwards till December, 2023
- Member, Committee for MHRD's 17-by-17 Action Plan, 2018
- Nodal Officer, ARIYA, 2018
- Member, Implementation of 7th CPC for teachers and equivalent cadres, 2017
- Member, tri-partite MoU between MHRD, UGC and Nagaland University, 2017
- Chairman, Committee for Meritorious staff award, 2017
- Nodal Officers for Online Students Grievance Redressal Portal, 2015
- Chairman, Editorial Committee University Annual Report, 2011-2012, 2013-2014, 2017-2018,
- Member, Editorial Committee, University Annual Report, 2014-2015, 2012-2013,
- Member, Editorial Committee, University Prospectus, 2016-2017

- Member, Editorial Board of University Research Journal, 2008 to March, 2013
- Member, Editorial Board of University Newsletter, 20-04-08 to 20-04-10
- Member, Library Committee, Nagaland University, 04-09-08 to 04-09-11, 28th March, 2019 to 27th March, 2021 (as Director, IQAC)
- Member, University Construction Monitoring Committee, October, 2011 to Nov, 2012
- Member, Central Purchase Committee, 29-06-07 to 29-06-09, 2019-2021
- Hostel Warden, P.G. Boys Hostel, 2002-2003.
- Member, Quarter Allotment Committee, Nagaland University, 13-04-10- to 13-04-12
- Member, Transport Committee, Nagaland University
- Member, University Sports Committee, 2014-2016
- Chairman, Departmental Purchase Committee, 2010-2013, 2015-2019
- Chairman, Departmental Research Committee, 2010-2013, 2015-2019
- Chairman, Admission Committee for P.G and Ph.D. in Chemistry, 2010-2013, 2015-2019
- Chairman, Examination moderation committee for U.G courses, 2010-2013, 2015-2019
- Member , Departmental Purchase Committee, Admission committee, Examination Moderation committee since 1999
- Chairman/Member/Vice-Chancellor nominee for selection of project staff (from time to time)
- Convener/Member for University Foundation day celebration, (several times)

OTHER ASSIGNMENTS/EXPERIENCES

- Member, Selection Committee for Assistant Professor, Associate professor and Professor for various Department under Nagaland University
- Chairman, Screening committee for CAS applications for promotion of Teachers (15th Oct. 2019 to 19th Dec. 2021, 18th Oct. 2022 onwards, as Director, IQAC)
- Member, Central Screening Committee for Teaching posts, Nagaland University, 2022
- Member, Screening committee for teaching post School of Sciences, Nagaland University
- Chairman/Member for different college inspection committee for affiliation under Nagaland University
- Member, Selection committee, Assistant Professor in Chemistry, Govt. of Nagaland
- Member, Selection committee , Associate Professor in Chemistry, Govt. of Nagaland
- Member, Selection committee, College Principal , Govt. of Nagaland , 2022
- Chairman/ Member, Selection committee, Assistant Professor for different colleges affiliated under Nagaland University
- Practical Examiner to different Colleges under Nagaland University
- Ph.D. Thesis Examiner for Guwahati University, NEHU, Mizoram University, Krishna University, Acharya Nagarjuna University, Visvesvaraya Technological University
- Reviewer for different Journals like Sustainable Chemistry and Pharmacy, Journal of Environmental Chemical Engineering, Korean J. Chem. Eng, International Journal of Environmental Science and Technology etc.
- Editorial Board members of different Journals like Nagaland University Research Journal, Journal of Applicable Chemistry etc.
- Reviewer of UGC Project proposal on D. S. Kothari Post Doctoral Fellowship, 2023

POSITION & PERIOD HELD IN DIFFERENT UNIVERSITY ACADEMIC BODIES

Department/Bodies/Organization etc.	Position Held	Period
Executive Council	Member	21 st March, 2025 onwards (as PVC)
Finance Committee	Member	21 st March, 2025 onwards (as PVC)
Academic Council	Member	August, 2010 - 6 th March, 2013 (as HOD), 20 th April, 2015 onwards as HOD, July 2014 onwards for three years (as DSW), September 2014 onwards as Professor
Planning Board	Member	5 th Nov, 2011 - 6 th March, 2013 as HOD (i/c), 20 th April, 2015 onwards as HOD till 21 st April, 2019
Board of Research Studies	Member	5 th Nov, 2011 - 6 th March, 2013 as HOD (i/c), 20 th April 2015 onwards as HOD till 21 st April, 2019, 22 nd April, 2019 onwards as Professor
School Board of Sciences, Nagaland University	Member	1999 – 2003, 19-3-08 to 23-08-11, 2011- 2013 (Ex-officio member as Head), 2014 onwards as Professor
Board of Post-Graduate Studies (BPGS) in Chemistry, Nagaland University	Member Chairman	Since 1999 August, 2010 to Feb, 2013, 20 th April, 2016 onwards
Board of Under-Graduate Studies (BUGS) in Chemistry, Nagaland University	Member Chairman	Since 1999 August, 2010 till 6 th March, 2013 20 th April, 2016 onwards
Board of Post-Graduate Studies (BPGS) in Agricultural Chemistry, Nagaland University	Member	1999-2001
Board of Post-Graduate Studies (BPGS)/Board of studies in Geology, Nagaland University.	Member	8/12/2006 -15/7/2010, May 2014 to May 2017, 2023-2026
Board of Post-Graduate Studies (BPGS) in Mathematics, Nagaland University.	Member	2017-2020
Board of Post-Graduate Studies (BPGS) in Geography, Nagaland University.	Member	4 th May, 2011 to 3 rd May, 2014
Board of Post-Graduate Studies (BPGS) in Zoology, Nagaland University.	Member	20 th August, 2015 to 19 th August, 2018
Board of Post-Graduate Studies (BPGS) in Forestry, Nagaland University.	Member	17 th Nov. 2020 to 16 th Nov. 2023

SEMINAR\WORKSHOP\SCIENCE EXHIBITION\EXTENSION ACTIVITIES ETC. ORGANIZED

Type of Event	Period	Nature of Involvement
Training cum Workshop on Academic Administration	24 th Sept. to 22 nd Oct. 2020	Convener (as Director, IQAC)
Quality Enhancement in Research	23 rd to 24 th March, 2021	Convener (as Director, IQAC)
Importance of IPR in academic institutions	29 th May, 2019	Convener
National Seminar on “Chemistry in interdisciplinary research” (NSCIR-2018)	9 th to 10 th November, 2018	Chairman
National Seminar on “Climate change and sustainable development: with special focus on North East India”	17 th to 18 th May, 2017	Convener
National Seminar on “Chemistry in interdisciplinary	16 th to 17 th March, 2017	Convener

research” (NSCIR-2017		
Science Exhibition for School Children (for around 150 participant (under a DST-NCSTC project)	11 th November, 2016	Convener
Science Exhibition for School Children (for around 150 participant (under a DST-NCSTC project)	31 st March, 2015	Convener
Awareness programme on “Water Literacy” in Schools/colleges/villages/university etc. (under a DST-NCSTC project)	November 2014 to 31 st March, 2017 [20 No’s]	Convener
Women empowerment programme through Bakery training/ food processing and meat processing training under DST-Women Technology Park	2013 to 2016 [30 No’s]	Project guide
Women in Scientific Research (3 no’s of National Seminar were organized in one year as part of International year of Chemistry in the year 2011)	Nagaland University NEHU, Shillong Guwahati University	Joint-Convener (being Co-PI of the DST- NCSTC project)

COUNTRY VISITED

Germany, France, Italy, Spain, Thailand

Conferences/Workshops attended/presented paper/Invited talk/Resource person etc.

- Resource Person in a Workshop on “Advances on Research Methodology” Organized by Department of Zoology, Nagaland University during the period 4th-10th March, 2025. Title of the talk : Finding Journals for publication, Date : on 5th March. 2025.
- Resource Person in Faculty Development Programme on “Transformative Research Practices: Advancing Quality and Ethical Standards across Higher Education”. Organized by Assam Down Town University, Guwahati during the period 13th-18th December, 2024. . Title of the talk : Navigating academic publication : Strategies and Best practices
- Resource Person in Nagaland University Research Conclave during the period 3rd to 4th December, 2024. Title of the talk : Navigating the publication process in Multidisciplinary Research : NEP prospective
- Resource Person on “Conduct rules for Teachers” , as part of Prelude Programme to Vigilance Awareness Week-2024, on 18th October, 2024
- Invited Talk on “Quality Enhancement in Research Publications” at KBN Collge, Vijaywada, AP, on 3rd July, 2024
- Invited Speaker in “International Seminar on need and role of next generation therapeutics” Organised by Sri Siddhartha Pharmacy College, Nuzvid in association with A.P. Akademi of Sciences, on 3rd July 2024. Title of the talk: Photo catalytic degradation of Pharmaceuticals.
- Invited Talk on “ Understanding the quality of Research Publications” at Chalapthi College of Pharmaceutical Sciences, Guntur, Andhra Pradesh on 2nd July, 2024
- Invited Talk on “Types of Research Publications” at , Vignan Degree & PG College, Guntur, Andhra Pradesh on 2nd July, 2024.
- Invited Speaker in A 2-Day International Conference on “New Age Technologies in Therapeutics-2024 (NTT-2024), Organised by Department of Chemistry, PBSCAS, Vijaywada, in association with A.P. Akademi of Sciences during 1st to 2nd July, 2024. Title of the talk : Metal doped TiO₂ activated carbon nano composite for photo catalytic degradation of organic pollutants

- Keynote Speaker in “5th Addition of Catalysis, Chemical Engineering and Technology Virtual” , 19th April, 2024, organised by SCIWIDE. WEBINARS. Title of the talk : Metal doped TiO₂ activated carbon Nano composite for Photo catalytic degradation of Phenol
- Invited Speaker in 2nd International Conference on “Recent Trends in Materials Science and Devices (ICRTMD 2023)” , 29-31 December, 2023, organized by Research Plateau Publishers and Sat Kabir Institute of Technology & Management, Bahadurgarh (Haryana) India Title of the talk : Photocatalytic degradation of Phenol wastewater by co-doped TiO₂ activated carbon nanocomposite
- Resource Person in Faculty Induction Programme organized by HRDC, Mizoram University on 24th November, 2023. Title of the Talk: ***Understanding the different aspects of NEP-2020***
- Resource Person in ICSSR sponsored Capacity Development Programme organized by Department of Teacher Education, Nagaland University, during the period 26th October to 6th November, 2023. Title of the talk: ***Relevance of CBCS in Curriculum Development*** (on 6th November, 2023)
- Keynote Speaker in NAAC sponsored One day National Seminar on NEP-2020: Challenges & Opportunities in Higher Education, Organized by Immanuel College, Nagaland on 8th September, 2023. Title of the talk : ***Implementation of NEP-2020 by Nagaland University***
- Resource Person, in a Summer School on “Emerging Trends in Science and Technology” organized by HRDC, Mizoram University during the period 3rd to 16th August. on 4th August. Title of the Talk: ***Nuances of Research Publications*** (on 4th August, 2023).
- Resource Person in a workshop entitled “***Transformative and Enhancement of Quality in higher Education Institution: Perspective of NEP 2020***” organized by St. Joseph’s College (Autonomous), Nagaland, during 10th to 11th July, 2023.
- Resource Person in a Webinar entitled “NEP-2020: ***Guidelines, Implementation and Q&A Session***”, organized by Sao Chang College, Nagaland on 7th June, 2023.
- Resource Person on “***Implementation of NEP-2020 Issues and Challenges of Higher Education in Nagaland***” as part Webinar Series on NEP-2020, organized by Department of Teacher Education, Nagaland University, on 20th May 2023.
- Resource Person as Director, IQAC on “***Quality Enhancement in Research Publications***” in workshop organized by Department of Chemistry on 19th April, 2023 as part of 25 years of celebrations of Chemistry Department.
- Resource person as Nodal Officer, NEP-2020 on “***Preparation of Curriculum and Credit Frame work for under graduate programme***”, on 15th March, 2023, at Lumami Campus, Nagaland University
- Resource person on “***Status of NEP Implantation by Nagaland University***” at Meirima Campus, Nagaland University on 6th March, 2023 as Nodal Officer, NEP-2020, Nagaland University
- Resource Person in “National Workshop on Research Methodology” at Meirima Campus, Nagaland University during 21st Feb to 2nd March, 2023, organized by Teacher Education Department, Nagaland University; Title of the talk : ***Quality publications in Journals with Impact factor***
- Invited Lecture in .41st National Conference of Indian Council of Chemists held during the period 27th to 29th December, 2022, at Dr. Bhimrao Ambedkar University, Agra Title of the talk : A study on indoor Radon, Thoron and their progeny level by Nuclear Track Detectors : a brief report from the state of Nagaland.
- Represented Nagaland University a Gyanotsav held during the period 17th to 19th December 2022 at PUSA, New Delhi (Attended as Nodal Officer, NEP, Nagaland University)
- Represented Nagaland University in one day workshop held at IIT Guwahati on 26th Nov. 2022, Organized by Ministry of Education and Ministry of Skill Development & Entrepreneurship, Government of India, on Draft National Credit Frame work (NCrF) for North-East Region, India (Attended as Nodal Officer, NEP, Nagaland University)

- Resource person in one day Orientation programme organized by Department of Chemistry, Nagaland University on 31st August, 2022. Title of the Talk: P.G. Examination guidelines for Nagaland University
- Resource person in Orientation programme (20th, 21st and 25th April, 2022) held at Dimapur, Kohima and Mokokchung on Implementation of NEP 2020 with CBCS at Undergraduate Level: Organized by Nagaland University in collaboration with Directorate of higher Education, Govt. of Nagaland
- Resource person in Awareness Workshop for University Teachers on promotion under Carrier Advancement Scheme 9(CAS) on 29th and 31st March, 2022: Organised by IQAC, Nagaland University
- Panel Speaker in a National Workshop on “Up skilling Academicians in Teaching Pedagogy and Research Writing” organized by North Eastern Management Association and Kaziranga University. Jorhat on 26th march, 2022. Title of the Talk: How to Choose a right Research Journal?
- Participated in the Summit of Vice-Chancellor’s of North East Central Universities held at Guwahati on 13th Nov., 2021. Delivered a talk on “Good practices in implementation of NEP” on behalf of Nagaland University.
- Resource person in a Webinar on “CBCS: Guideline and Implementation” organized by Sao Chang College, Govt. of Nagaland, on 11th May, 2021
- Resource person in One day orientation programme on “Choice Based Credit System”, organized by Directorate of Higher Education, Govt. of Nagaland, on 16th April, 2021, Title of the Talk: Choice Based Credit System, Guidelines and Implementations
- Invited Speaker on “Training cum Workshop on Academic Administration” Organized by IQAC, Nagaland University during 24th Sept. to 22nd Oct. 2020 Title of the Talk: NAAC ACCREDITATION
- Invited talk on “Choice based Credit System” during the annual conference cum general meeting of Nagaland College Principals Association held on 21st June, 2019
- International conference on the theme “Materials for environment, sustainable society and global empowerment-2019” organized by National Environmental Science Academy at Visvesvaraya Technological University, Bangalore during the period 19th to 20th December, 2019 (Invited Talk). Title of the talk: Biomass derived activated carbon and its application in water pollution control: experimental and theoretical approach
- National Symposium on “Climate change and sustainable development: with special focus on North East India”, 17th to 18th May, 2017, Nagaland University (Attended as Convener)
- National Symposium on “Chemistry in interdisciplinary research”, 16th to 17th March, 2017, Department of Chemistry, Nagaland University (Convener)
- National Seminar on “Climate Change and sustainable development”, 18th to 20th October, 2013, Nagaland University, Nagaland (Oral Presentation)
- 18th National Symposium on “Solid state nuclear track detectors and their applications”, 18th to 20th October, 2013, Aggarwal college, Ballabgarh, Haryana. (Oral Presentation)
- National Seminar on “Multidisciplinary Studies, Images, Discourses, and Realities in Contemporary Issues” 4th to 5th Oct, 2013, Patkai Christian College, Dimapur, Nagaland. (Invited Speaker)
- International Conference on “Perspective and Challenges in Chemical and Biological Sciences: Innovations Crossroads” by Indian Society of Chemist and Biologist, 28-30 Jan, 2012, IASST, Guwahati.
- 30th Annual Conference of ICC, 28th to 30th Dec, 2011, Osmania University, Hyderabad.
- National Conference on “Women in Scientific Research-Examining the challenges and identifying their needs” Department of Chemistry, 23-24 August, 2011, Nagaland University,
- International Conference of Chemistry, Bangkok, 11th to 15th June, 2011
- Radiation Effects on polymers, October, 2004, HMI, Berlin.
- 21st International Conference on Nuclear Tracks in Solids, October 21-25, 2002. India Habitat Centre, New Delhi.

- Second National Symposium in Chemistry, Jan 27-29, 2000, IICT, Hyderabad.
- One day school on Swift Heavy Ions in Materials: Basic phenomena and Applications 23 Oct. 1998, NSC, Delhi.
- International Conference on “Swift Heavy Ion in Materials: Basic phenomena and Applications 22 Oct. 1998, NSC, Delhi
- Regional workshop on Analytical Techniques (Trace Elements) in Earth Sciences, March 12-15, 1997, NEHU, Shillong.
- National workshop on Radiochemistry and applications of Radioisotopes, Dec. 5-13, 1996, NEHU, Shillong.
- 10th National symposium on solid state nuclear track detectors, Oct. 3-5, 1996, Kurukshetra University, Kurukshetra.
- Nuclear and Radiochemistry symposium (NUCAR-95), Feb, 1995, IGCAR, Kalpakkam.
- Regional Workshop on Electron Microscopy from June 28-30, 1994, R.S.I.C., N.E.H.U., Shillong.

RESEARCH & DEVELOPMENT PROJECTS

Sl. No.	Title	Funding Agency	Period
1.	Formation of nano scale structure by swift heavy ion track technology	DST, Under BOYSCAST programme	2003-2004
2.	Chemistry celebrations in Nagaland*	DST, New Delhi (as PI)	2011, One Year
3.	Promotion of water literacy and training on water purification methods in the rural tribal areas of Mokokchung and Zunheboto districts of Nagaland	DST, New Delhi (as PI)	For three years (2013-16)
4.	Gamma induced modifications of polymeric nuclear track detectors	UGC, New Delhi (as PI)	For three Years (2013-2016)
5.	The study of gamma, radon, thoron and their progeny level in Mokokchung and Zunheboto district of Nagaland	DAE-BRNS, Mumbai (as PI)	For two years (2016-2018)
6.	Women in Scientific Research: Examining the Challenges and Identifying Their Needs	DST, New Delhi (as Co-PI)	2011, One Year
7.	Women Technology Park	DST, New Delhi (as Co-PI initially and as PI, since November,2014)	For four years (2013-2016)
8.	DST-FIST (Departmental Programme)	Coordinator	6 th Feb, 2017 to 25 th April, 2019

*Due to some reason the project could not be implemented

RESEARCH GUIDANCE

Ph.D. Guidance

Sl. No.	Name of the Student	Title of the thesis	Status
1.	Dr. Toka Swu	Gamma photon induced modification of some polymers	Awarded in 2009
2.	Dr. Alimenla B.	Studies on quaternary ammonium tribromides and peroxovanadate mediated organic halogenations	Awarded in 2012
3.	Dr. Daniel Kibami	Studies on water quality of Mokokchung district and removal of trace elements using activated carbon prepared from locally available bio-waste	Awarded in 2015
4.	Dr. Chubaakum Pongener	Synthesis of activated carbons from biowaste materials and studies on their characterisation and applications	Awarded in 2017
5.	Dr. Parimal C Bhomick	A study on applications of activated carbon prepared from bio-mass material.	Awarded in 2020
6.	Dr. Champa Gogoi	A study on removal of fluoride and arsenic present in ground water of Golaghat district of Assam and its peripheral areas	Awarded in 2021 (as Co-Supervisor)
7.	Dr. Aola Supong	Studies on surface modifications of activated carbon for removal of organic and biological pollutants from water	Awarded in 2022
8.	Dr. Mridushmita Baruah	Photocatalytic Degradation of Water Pollutants Using Activated Carbon-TiO ₂ /Metal Doped Activated Carbon-TiO ₂ Based Nanocomposite Materials	Awarded in 2022
9.	Mr. Supongtoshi Jamir	A Study of Gamma, Radon, Thoron and their progeny level in Mokokchung and Dimapur District, Nagaland	Awarded in 2023
10.	Mr. Soremo L. Ezung	Activated Carbon/nanocomposite material for adsorption removal of some organic pollutants: An experimental and DFT study.	Awarded in 2023
11.	Mr. Suraj Kumar	Studies on modification of graphene based nano materials for different applications	Admitted in 2019
12.	Mr. Shisak Sharma	Adsorption studies on activated carbon and its composite: an Experimental and theoretical insight to understand the Adsorption mechanism	Admitted in 2019
13.	Mr. Raplang Steven Umdor	Activated carbon and its composites for various applications	Admitted in 2021
14.	Ms. Imotila T. Longchar	Study of application of Activated carbon/Grapheme Oxide composite materials for Environmental Remediation	Admitted in 2022
15.	Ms. Priyakshi Bora		Admitted in 2023

M.Sc. Project Guidance

Total No's: 48

RESEARCH PUBLICATIONS

Google Scholar Id: [NEorCwMAAAAJ](#)

A. PATENT PUBLICATION

10.	A process for Synthesizing aminated reduced grapheme oxide and a composition for the same, Suraj Kumar, Dinesh Rangappa, Priyakshi Bora, Navya Rani M and Dipak Sinha https://drive.google.com/file/d/1aIMAp4aA0KUJg_lyfQkDNdKMRkUqyfu/view?usp=sharing Indian Patent no: 563060, Granted on : 20th March, 2025
9.	Method for Analysing Mercury Adsorption Ability of Oxygenated Functionals Brominated Activated Carbon Rituparna Karmakar, AolaSupong, Upasana Bora Sinha and Dipak Sinha https://drive.google.com/file/d/14E_NW7N94vMmgc-jmETA-2bwCgN03gQl/view?usp=sharing South African Patent no : 2024/04652, Granted on 29th January, 2025
8.	Aktivkohlebeimischtes Biofiltersystem zur nachhaltigen Entfernung von Bakterien aus Wasser Aola Supong, Dipak Sinha and Upasana Bora Sinha German Utility Patent no : 20 2024 103 105 , publication date 10/07/2024
7.	System zur Synthese und Charakterisierung von aus Rubus Alceifolius hergestellter Aktivkohle zur Entfernung von Sulfadiazin Raplant Steven Umdor, Shisak Sharma , Dipak Sinha, Suraj Kumar, Temjenwati Longchar Imotila German Utility Patent No : 20 2024 103 104, publication date : 27/06/2024 https://register.dpma.de/DPMAreger/pat/register?AKZ=2020241031040
6.	Ein System zur umweltfreundlichen und schnellen Synthese von Bromographen (BG) unter Verwendung eines umweltfreundlicheren Bromierreagenz, Kumar Suraj, Rangappa Dinesh, Singha Basanta, Sinha Dipak , Sinha Upasana Bora and Supong Aola Registered German Utility Patent no : 20 2024 101 833, Publication date 22/04/2024 https://register.dpma.de/DPMAreger/pat/register?AKZ=2020241018338
5.	Ein system zur synthesis von thysanolaena maximum Aktivkohle , Bora Priyakshi, , Sinha Dipak, Temjenwati Longchar Imotila , Umdor Raplang Steven Registered German Utility Patent no : 20 2024 100 712, Publication date 27/02/2024 https://register.dpma.de/DPMAreger/pat/register?AKZ=2020241007123
4.	A process of preparation of Fe-doped ZnO/activated carbon nanocomposite for photocatalytic degradation of Chlorpyrifos : Soremo L Ezung, Mridushmita Baruah Suraj Kumar, Shisak Sharma, Raplang Steven Umdor, Bupesh Giridharan and Dipak Sinha Patent Application No : 202331084822 A , Published on 19/01/2024 (Indian Patent) https://drive.google.com/file/d/1kBVFoPR5MgOS42bqccLF9LUMpiEZpfwQ/view?usp=sharing
3.	Activated carbon-amended biofilters for sustainable removal of total heterotrophic, coliform and escherichia coli bacteria from water : Aola Supong, Tamsurenla Jamir, T Ajungla, Pranjal Bharali, Upasana Bora Sinha and Dipak Sinha Patent Application No : 202331084823 A , Published on 19/01/2024 (Indian Patent)
2.	A process of photocatalytic degradation of phenol in wastewater employing Co-doped TiO2 activated carbon nanocomposite : Mridushmita Baruah, Suraj Kumar, Soremo L Ezung, Parimal Chandra Bhomick, Latonglila Jamir and Dipak Sinha Patent Application No : 202331078923 A , Published on 01/12/2023 (Indian Patent) https://drive.google.com/file/d/1SlyokUfVuQufsIHcEBOzZECL6ge_GCg_/view?usp=sharing
1.	A process for the synthesis of antibacterial activity exhibiting brominated activated carbon and product thereof : Aola Supong, Parimal Chandra Bhomick, Suraj Kumar, Shishak Sharma, Dipak Sinha and Upasana Bora Sinha Patent Application No : 20233105555 A , Published on 29th Sept, 2023 (Indian Patent) https://drive.google.com/file/d/1gA4VxCVXtn8p7T9xUPNPNmIWIJOG62IxQ/view?usp=sharing

B. PAPER PUBLICATION (WoS & Scopus indexed only)

100.	Scalable one-pot synthesis of aminated reduced graphene oxide for high-performance supercapacitor electrodes, Suraj Kumar, Priyakshi Bora, Kunal Roy, Navya Rani M, Dinesh Rangappa, Dipak Sinha , iScience, (2025), 112271, https://doi.org/10.1016/j.isci.2025.112271	IF: 4.6
99.	LDH composite as an efficient material for the photocatalytic degradation of pharmaceutical pollutants using advanced oxidation process: A review, Raplang Steven Umdor, Imotila T Longchar, Shisak Sharma, Kenneth Umdor, Dipak Sinha , Journal of Alloys and Compounds, 1022 (2025) 179798, https://doi.org/10.1016/j.jallcom.2025.179798	IF: 5.8
98.	Graphene–MXene van der Waals heterostructures for high-performance supercapacitors, Suraj Kumar, Priyakshi Bora, Parimal Chandra Bhomick, Dinesh Rangappa, Dipak Sinha , Nano Research Energy, (2025), 4: e9120148, https://doi.org/10.26599/NRE.2024.9120148	Scopus Indexed Cite Score: 39
97.	Evaluation of a novel activated carbon/graphene oxide as an efficient composite adsorbent for the removal of herbicide 2,4-Dichlorophenoxyacetic acid: Adsorption isotherm and kinetics study., Imotila T Longchar, Suraj Kumar, Raplang Steven Umdor, Shisak Sharma, Priyakshi Bora, Dipak Sinha , Journal of Molecular Liquids, 415(2024)126406, https://doi.org/10.1016/j.molliq.2024.126406	IF : 5.3
96.	2D transition metal dichalcogenides for efficient hydrogen generation, Priyakshi Bora, Suraj Kumar, Dipak Sinha , Materials Today Sustainability, 27 (2024)100914, https://doi.org/10.1016/j.mtsust.2024.100914	IF: 7.1
95.	Recent advances in applications of animal biowaste-based activated carbon as biosorbents of water pollutants: a mini-review, Vevosa Nakro, Tsenbeni N. Lotha, Ketiayala Ao Imkongyanger Ao, Vimha Ritse, Lemzila Rudithongru, Chubaakum Pongener Merangmenla Aier, Dipak Sinha , Latonglila Jamir, Environ Monit Assess (2024) 196:974, https://doi.org/10.1007/s10661-024-13123-x	IF : 2.9
94.	Exploring the adsorption of catechol and resorcinol onto Croton caudatus activated carbon: An integrated experimental and theoretical approach, Shisak Sharma, Raplang Steven Umdor, Imotila T. Longchar, Soremo L. Ezung, Dipak Sinha , Groundwater for Sustainable Development, 27(2024)101325, https://doi.org/10.1016/j.gsd.2024.101325	IF : 4.9
93.	Photocatalytic Degradation of Chlorpyrifos using Fe-doped ZnO/Activated Carbon Nanocomposite, Soremo L Ezung, Mridushmita Baruah, Shisak Sharma, Raplang Steven Umdor, Imotila T Longchar, Bupesh Giridharan, Upasana Bora Sinha, Dipak Sinha , Journal of Molecular Structure, 1319(2025), 139434, https://doi.org/10.1016/j.molstruc.2024.139434	IF : 4.0
92.	Preparation of Co-doped TiO ₂ activated carbon nanocomposite and its photocatalytic degradation of phenol wastewater, Mridushmita Baruah, Suraj Kumar, Soremo L Ezung, Latonglila Jamir, Upasana Bora Sinha and Dipak Sinha , InorganicChemistryCommunications166(2024)112644, https://doi.org/10.1016/j.inoche.2024.112644	IF : 3.8
91.	Defluoridation using pinecone-based activated carbon: Adsorption isotherm, kinetics, regeneration, and co-ions effect investigation, Parimal Chandra Bhomick, Aola Supong, Akito I Sema, Dipak Sinha , J. Serb. Chem. Soc. 1-1 (2024), https://doi.org/10.2298/JSC230428015B	IF : 1.0
90	Experimental and DFT study on the removal of sulfadiazine by activated carbon prepared from <i>Rubus alceifolius</i> , R. S. Umdor, S. L. Ezung, S. Sharma, S. Kumar, I. T. Longchar and D. Sinha, Biomass Conversion and Biorefinery, 2024, https://doi.org/10.1007/s13399-024-05488-3	IF : 4.0

89.	Utilization of Pinus kesiya and Schima wallichii Biomass-Derived Activated Carbon for Methylene Blue Removal: Adsorption Performance and Mechanistic Insights, Parimal Chandra Bhomick, Aola Supong, Suraj Kumar, Akito I. Sema, Thechano Merry and Dipak Sinha , Water Conservation Science and Engineering (2023) 8:48, https://doi.org/10.1007/s41101-023-00220-0	IF : 2.0
, 88.	Activated carbon adsorbent derived from waste biomass, "Croton caudatus" for efficient removal of 2-chlorophenol from aqueous solution: Kinetics, isotherm, thermodynamics and DFT simulation, Shisak Sharma, Soremo L Ezung, AolaSupong, MridushmitaBaruah, SurajKumar, Raplang StevenUmdor, Dipak Sinha , Chemical Engineering Research and Design, 2023, https://doi.org/10.1016/j.cherd.2023.01.002	IF : 4.119
87.	Photocatalytic degradation of the organophosphorus insecticide chlorpyrifos in aqueous suspensions using a novel activated carbon ZrO ₂ -ZnO nanocomposite under UV light, Soremo L Ezung, Mridushmita Baruah, Suraj Kumar, Shisak Sharma, and Dipak Sinha , Korean J. Chem. Eng., 40(1), 1-16 (2023), DOI: 10.1007/s11814-022-1354-2	IF : 3.119
86.	Estimation of radon in groundwater and analysis of radon and thoron exhalation rates of the soil in Mokokchung district, Nagaland, India, Supongtoshi Jamir , B.K. Sahoo , Rosaline Mishra, Dipak Sinha , Groundwater for Sustainable Development 20 ,2023, 100874, https://doi.org/10.1016/j.gsd.2022.100874	IF : 5.9
85.	A case study on seasonal and annual average indoor radon, thoron, and their progeny level in Kohima district, Nagaland, India, Supongtoshi Jamir, B.K. Sahoo, Rosaline Mishra & Dipak Sinha , Isotopes in environmental and health studies, 2022, https://doi.org/10.1080/10256016.2022.2140147	IF : 1.667
84.	Functionalised carbon from Musa Balbisiana stems - a byproduct of edible alkali preparation and a suitable adsorbent for fluoride and arsenic from contaminated water, Champa Gogoi, Jitu Saikia Parimal Chandra Bhomick, Dipak Sinha , Rajib Lochan Goswamee, Materials Today: Proceedings, 2022, https://doi.org/10.1016/j.matpr.2022.08.284	Scopus indexed Cite Score : 4.9
83.	Synthesis and characterization of Ni-doped TiO ₂ activated carbon nanocomposite for the photocatalytic degradation of anthracene, Mridushmita Baruah, Soremo L. Ezung, Shisak Sharma, Upasana Bora Sinha, Dipak Sinha , <i>Inorganic Chemistry Communications</i> , 144 (2022) 109905, https://doi.org/10.1016/j.inoche.2022.109905	IF: 3.8
82.	Green synthesis of mesoporous Ni-Co layered double hydroxide and its application for removal of 2,4-dinitrophenol from water: A theoretical study complemented by the first principle density functional theory-Monte-Carlo approach, Apuchu R. Sangtam , Pinky Saikia , Rajib Lochan Goswamee , Dipak Sinha , Upasana Bora Sinha a, <i>Journal of Environmental Chemical Engineering</i> , 10 (2022) 108378, https://doi.org/10.1016/j.jece.2022.108378	IF: 7.968
81.	A computational approach to understanding the mechanism of aromatic bromination using quaternary ammonium tribromides, Rituparna Karmakar, Naruti Longkumar, Kikoleho Richa, Dipak Sinha , Upasana Bora Sinha, <i>Journal of the Indian Chemical Society</i> , 99, 100574, 2022, https://doi.org/10.1016/j.jics.2022.100574	IF: 3,2
80.	A comprehensive study on indoor Radon, Thoron and their Progeny level in Dimapur district of Nagaland, India, Supontoshi Jamir, B.K. Sahoo, Rosaline Mishra and Dipak Sinha , <i>Radiation Protection Dosimetry</i> , 1-9, 2022, https://doi.org/10.1093/rpd/ncac150	IF: 0.954
79.	Density Functional Theory Calculations of the Effect of Oxygenated Functionals on Activated Carbon towards Cresol Adsorption, Aola Supong, Upasana Bora Sinha and Dipak Sinha , <i>Surfaces</i> , 5, 280–289, 2022, https://doi.org/10.3390/surfaces5020020	IF : 2.3
78.	Functionalized Carbon from Musa Balbisiana Stems - A Suitable Adsorbent for Arsenic from Contaminated Water, Champa Gogoi, Parimal Chandra Bhomick, Jitu Saikia, Dipak Sinha & Rajib Lochan Goswamee, <i>Journal of Indian Water Works Association</i> , Jan-March, 45-53, 2022.	Scopus Indexed

77.	Experimental and theoretical insight into the adsorption of 2,4-dichlorophenol on low-cost bamboo sheath activated carbon, Soremo L. Ezung , Mridushmita Baruah , Aola Supong , Shisak Sharma, Dipak Sinha , <i>Sustainable Chemistry and Pharmacy</i> , 26, 100643, 2022 , https://doi.org/10.1016/j.scp.2022.100643	IF: 6.0
76.	A study of indoor radon, thoron and their progeny level in Mokokchung district of Nagaland, India, Supongtoshi Jamir, B.K. Sahoo, Rosaline Mishra, Parimal Chandra Bhowmick, Dipak Sinha , <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021 , https://doi.org/10.1007/s10967-021-08096-x	IF: 1.754
75.	Synthesis, characterization of novel Fe-doped TiO ₂ activated carbon nanocomposite towards photocatalytic degradation of Congo red, <i>E. coli</i> , and <i>S. aureus</i> , Mridushmita Baruah, Soremo Likongthung Ezung, Aola Supong, Parimal Chandra Bhomick, Suraj Kumar and Dipak Sinha , <i>Korean J. Chem. Eng.</i> , 38(6), 2021 , 1277-1290, https://doi.org/10.1007/s11814-021-0830-4	IF: 3.146
74.	Rationalizing between the efficiency and greenness of solvents-A computational study of their influence on TBATB, Rituparna Karmakar, Dipak Sinha and Upasana Bora Sinha, <i>Sustainable Chemistry and Pharmacy</i> , 20, 100387, (2021), https://doi.org/10.1016/j.scp.2021.100387	IF: 6.0
73.	DFT study on the structural, optical and electronic properties of platinum group doped graphene, S. Kumar., S. Sharma., Karmaker R., Sinha D. <i>Materials Today Communications</i> , 101775, 2020 , https://doi.org/10.1016/j.mtcomm.2020.101755	IF: 3.8
72.	Experimental and theoretical insight into the adsorption of phenol and 2,4-dinitrophenol onto <i>Tithonia diversifolia</i> activated carbon, Aola Supong, Parimal Chandra Bhomick, Rituparna Karmaker, Soremo L Ezung, Latonglila Jamir, ¹ Upasana Bora Sinha, Dipak Sinha , <i>Applied Surface Science</i> , 529 147046, 2020 , https://doi.org/10.1016/j.apsusc.2020.147046	IF: 7.392
71.	Batch sorption–photodegradation of Alizarin Red S using synthesized TiO ₂ /activated carbon nanocomposite: an experimental study and computer modelling, M. Baruah, A. Supong, P.C. Bhomick, R. Karmaker, C Pongener, D. Sinha , <i>Nanotechnology for Environmental Engineering</i> , 5(1), 1-13, 2020 , https://doi.org/10.1007/s41204-020-00071-3	Scopus Cite Score: 3.9
70.	Biomass-derived activated carbon for removal of ²²² Rn from air, P. C. Bhomick, S. Jamir, U.B. Sinha, B.K. Sahoo, D. Sinha , <i>Sustainable Chemistry and Pharmacy</i> , 14 (2019), 100193, https://doi.org/10.1016/j.scp.2019.100193	IF: 5.464
69.	A combined experimental and theoretical investigation of the adsorption of 4-Nitrophenol towards activated biocarbon, A.Supong, P.C. Bhomick, M. Baruah, C. Pongener, U.B.Sinha, D.Sinha , <i>Korean Journal of Chemical Engineering</i> , 36(12), 2023-2034, 2019 , https://doi.org/10.1007/s11814-019-0382-z	IF: 3.146
68.	Adsorptive removal of Bisphenol A by biomass activated carbon and insights into the adsorption mechanism through density functional theory calculations, A.Supong, P.C. Bhomick, M. Baruah, C. Pongener, U.B.Sinha, D.Sinha , <i>Sustainable Chemistry and Pharmacy</i> , 13, 110159, 2019 , https://doi.org/10.1016/j.scp.2019.100159	IF: 5.464
67.	Alizarin Red S adsorption onto biomass-based activated carbon: optimization of adsorption process parameters using Taguchi experimental design. P.C. Bhomick, A. Supong, M. Baruah, C. Pongener, C. Gogoi, D. Sinha , <i>International Journal of Environmental Science and Technology</i> , 1-12, 2019 , https://doi.org/10.1007/s13762-019-02389-1	IF: 3.519
66.	Activated Carbon Synthesized from biomass material using single-step KoH activation for Adsorption of Fluoride: Experimental and theoretical investigation, P.C. Bhomick, A.Supong, R. Karmaker, M. Baruah, C. Pongener, D.Sinha , <i>Korean Journal Of Chemical Engineering</i> , 36(4),551-562, 2019 , https://doi.org/10.1007/s11814-019-0234-x	IF: 3.146
65.	Pine Cone biomass as an efficient precursor for the synthesis of activated biocarbon for adsorption of anionic dye from aqueous solution: Isotherm, Kinetic, Thermodynamic and Regeneration studies, P.C. Bhomick, A.Supong, M. Baruah, C. Pongener, D.Sinha , <i>Sustainable Chemistry and Pharmacy</i> , 10, 41-49, 2018 , https://doi.org/10.1016/j.scp.2018.09.001	IF: 5.464

64.	Adsorption of Fluoride onto Activated Carbon synthesized from <i>Manihot Esculenta</i> biomass - Equilibrium, kinetic and thermodynamic studies, Chubaakum Pongener, Parimal Chandra Bhomick, Aola Supong, Mridushmita Baruah, Upasana Bora Sinha and Dipak Sinha <i>Journal of Environmental Chemical Engineering</i> , 6, 2382-2389, 2018 , https://doi.org/10.1016/j.jece.2018.02.045	IF: 7.968
63.	Removal of fluoride from water by locally available sand modified with a coating of nano ion oxide, Champa Gogoi, Jitu Saikia, Susmita Sarmah, Dipak Sinha , Rajib Lochan Goswamee, <i>Water Air & Soil pollution</i> , 229:118, 2018 , https://doi.org/10.1007/s11270-018-3754-9	IF: 3.8
62.	Sand-supported bio-adsorbent column of activated carbon for removal of coliform bacteria and Escherichia coli from water. C. Pongener, P. Bhomick, S. Upasana Bora, R. L. Goswamee, A. Supong, D. Sinha , <i>International Journal of Environmental Science and Technology</i> . 14, 1897–1904, 2017 , https://doi.org/10.1007/s13762-017-1274-6	IF: 3.519
61.	Surface Characterization and Adsorption studies of Bambusa vulgaris-a low-cost adsorbent, Daniel Kibami, Chubaakum Pongener, K.S. Rao and Dipak Sinha . <i>Journal of Materials and Environmental Sciences</i> , 8, 7, 2494-2505, 2017 .	Scopus Indexed
60.	Adsorption studies of fluoride by activated carbon prepared from Mucuna Purines plant Chubaakum Pongener, Daniel Kibami, K. S. Rao, R.L. Goswamme, and Dipak Sinha , <i>Journal of Water Chemistry and Technology</i> , 2017 , https://doi.org/10.3103/S1063455X17020096	IF: 0.6
59.	Linear Correlation study and regression analysis of drinking water quality in Mokokchung town, Nagaland, India, Daniel Kibami, Chubaakum Pongener, K.S. Rao, Dipak Sinha . <i>International Journal of Engineering Research and Management (IJERM)</i> , 1(3), 2349- 2058, 2014 .	IF: 2.37
58.	Gamma irradiation effects on Track properties of PADC-American Acrylics Track Detector, D. Sinha , <i>e-journal of Chemistry</i> (now known as Journal of Chemistry) 9(4), 2226-2231, 2012 , https://doi.org/10.1155/2012/914579	IF: 3.241
57.	Solvent-Free Methodologies For Organic Brominations Using Quaternary Ammonium Tribromides Anil Kumar, Alimenla Jamir, Latonglila Jamir, Dipak Sinha and Upasana Bora Sinha, <i>Org. Commun.</i> 5, 64-69, 2012 .	SCI indexed
56.	Cetylpyridinium tribromide-An environmentally benign reagent for organic brominations and acetylations, Anil Kumar, Alimenla Jamir, Latonglila Jamir, Dipak Sinha and Upasana Bora Sinha, <i>Org. Commun.</i> 4:1, 1-8, 2011	SCI indexed
55.	<i>Are Indian Women Scientists victims of the 'glass ceiling'?</i> Upasana Bora Sinha and Dipak Sinha , <i>Current Science</i> , 100, 837-840, 2011	IF: 1.169
54.	Synthesis and Reactivity Studies of a New Reagent - Ethyltriphenylphosphonium Tribromide, Latonglila Jamir, Alimenla B., Anil Kumar, Dipak Sinha and Upasana B. Sinha, <i>Synthetic Communications</i> , 41, 147-155, 2011 , https://doi.org/10.1080/00397910903531912	IF: 1.937
53.	Studies on sorption of Fluoride by prepared Activated Kaza carbons., V. Sreenivasa Rao, Ch. Chakrapani, Ch. Suresh Babu, Kaza Somasekhara Rao, V. Nageswara Rao and Dipak Sinha ., <i>Derpharma Chemica</i> , 3, 73-81, 2011	Scopus
52.	A comparative study of gamma radiation effects on track properties of different PADC detectors, D. Sinha , <i>Radiation Effects and Defects in Solids</i> , 164, 604 -610, 2009 , https://doi.org/10.1080/10420150903242299	IF: 1.024
51.	Microwave Induced Reactions – an Alternative Route for Chemical Synthesis, Alimenla B., Anil Kumar, Latonglila Jamir, Dipak Sinha and Upasana B. Sinha, <i>Acta Chemica Slovenica</i> , 56, 457, 2009 , https://doi.org/10.1080/10420150600907657	IF: 1.735
50.	Nanoclusters and nanotubes for swift ion track technology, D. Fnk, A. Chandra, P. Alegaonkar, A. Berdinsky, A. Petrov and D. Sinha , <i>Radiation Effects & Defects in Solids</i> Vol. 162, Nos. 3–4, 151–156, 2007 , https://doi.org/10.1080/10420150601132487	IF: 1.024
49.	Microwave Induced Reactions – an Alternative Route for Chemical Synthesis, Alimenla B., Anil Kumar, Latonglila Jamir, Dipak Sinha and Upasana B. Sinha, <i>Radiation Effects and Defects in Solids</i> , 161, 12, 687. 2006 , https://doi.org/10.1080/10420150600907657	IF: 1.024
48.	Controlled ion track etching, J. George, M. Irkens, S. Neumann, U. W. Scherer, A. Srivastava, D. Sinha , D. Fink, <i>Radiation Effects and Defects in Solids</i> . Vol.161, No.3, 161-175, 2006 , https://doi.org/10.1080/10420150600574119	IF: 1.024

47.	High energy ion beam irradiation of polymers for electronic applications, D. Fink, P.S. Alegaonkar, A.V. Petrov, M. Wilhelm, P. Szimkowiak, M. Behar, D. Sinha , W.R. Fahrner, K. Hoppe, L.T. Chadderton. <i>Nuclear Instruments and Methods in Physics Research B</i> . 236, 11–20, 2005 , https://doi.org/10.1016/j.nimb.2005.03.243	IF: 1.279
46.	Tempos structure with gold nanoclusters, D.Sinha , A.Petrov, D.Fink, W.R.Fahrner, H.Hoppe A. Chandra, <i>Radiation Effects and Defects in Solids</i> . Vol.159, No.8-9, 517 –533, 2004 , DOI: 10.1080/10420150412331304187	IF: 1.024
45.	Gamma induced modifications of Polycarbonate polymer, D.Sinha , K.L.Sahoo, U.B.Sinha, T.Swu, A. Chemseddine, D.Fink, <i>Radiat. Effects & Defects in Solids</i> , 159, 10, 587 –595, 2004 , https://doi.org/10.1080/10420150412331330539	IF: 1.024
44.	Radiation induced modification on thermal properties of PADC Detector. D. Sinha and K.K. Dwivedi., <i>Radiation Measurements</i> . Vol.36, 713 –718, 2003 , 1350-4487, doi: 10.1016/S1350-4487(03)00232-4	IF: 1.743
43.	Gamma Effect on Track properties of PADC Detector, D. Sinha , T. Swu, S.P.Tripathy, R. Mishra, K.K. Dwivedi. <i>Radiation Measurements</i> . Vol.36, 229 –231, 2003 , https://doi.org/10.1016/S1350-4487(03)00129-X	IF: 1.743
42.	Spectroscopic and Thermal studies of Gamma-irradiated Polypropylene films. D. Sinha , T. Swu, S.P. Tripathy, R. Mishra, K.K. Dwivedi., <i>Radiation Effects and Defects in Solids</i> . Vol. 158, No.7, 531-537, 2003 , https://doi.org/10.1080/1042015031000074101	IF: 1.024
41.	Gamma-Photon induced modification of Polyvinylchloride (PVC) film. D. Sinha , T. Swu, S.P. Tripathy, R. Mishra, K.K. Dwivedi., <i>Radiation Effects and Defects in Solids</i> . Vol. 158, No.8, 593598, 2003 , https://doi.org/10.1080/1042015031000099762	IF: 1.024
40.	Optical and electrical properties of gamma irradiated PADC detector. D. Sinha , T. Phukan, S.P. Tripathy, R. Mishra, K.K. Dwivedi., <i>Radiation Measurements</i> . Vol. 34 (1-6), 109-111, 2001 , https://doi.org/10.1016/S1350-4487(01)00133-0	IF: 1.898
39.	Effect of high gamma doses on the etching behaviour of different types of PADC detectors. D. Sinha , R. Mishra, S.P. Tripathy, K.K. Dwivedi., <i>Radiation Measurements</i> . Vol. 33(1), 139-143, 2001 , https://doi.org/10.1016/S1350-4487(00)00095-0	IF: 1.898
38.	Simultaneous Determination of Radon, Thoron, and their progeny in dwellings. K.K. Dwivedi, R.Mishra, S.P. Tripathy, A. Kulshreshtha, D. Sinha , A. Srivastava, P. Deka, B. Bhattacharjee, T.V. Ramachandran, K.S.V. Nambi., <i>Radiation Measurements</i> . Vol. 33(1), 7-11, 2001 , https://doi.org/10.1016/S1350-4487(00)00131-1	IF:1.898
37.	Optical and Electrical properties of some electron and proton irradiated polymers. R.Mishra, S.P. Tripathy, D.Sinha , D.T. Khathing, K.K.Dwivedi, S.Ghosh,M. Muller, D. Fink, W.H. Chung. <i>Nuclear Instrumentation and Methods in Physics B</i> . Vol. 32, 59-64, 2000 , https://doi.org/10.1016/S0168-583X(99)00829-0	IF:1.210
36.	Optical Absorption and Track studies of Gamma-irradiated ZnP glass. A.Kushreshtha, D.Sinha , R.Mishra, S.P. Tripathy,K. K. Dwivedi, S. Ghosh,D. Fink., <i>Radiation Measurements</i> . Vol. 32, 169-172, 2000 , https://doi.org/10.1016/S1350-4487(99)00271-1	IF: 1.898
35.	Energy-Loss of ¹² C ions in different polymeric materials. K.K. Dwivedi, A. Srivastava, S. Ghosh, D.Sinha , S. Singh., <i>Indian Journal of Pure & Applied Physics</i> . Vol. 36, 361 - 365, 1998 .	IF: 0.822
34.	Determination of Critical Micelle Concentration (CMC) of Surfactants by a Nuclear Track Microfilter. K.K. Dwivedi, S. Ghosh, S. Singh, D. Sinha , A. Srivastava, S.N. Bhat. <i>Journal of Surface Science and Technology</i> . Vol 13, Nos. 2-4, 1997 .	Scopus Indexed
33.	Determination of energy-loss of 20-80 MeV ¹² C ions in Makrofol-KG, Triafol-TN and Triafol-BN detectors. K.K. Dwivedi, A Srivastava, D. Sinha , A. Kulshreshtha., <i>Radiation Effects and Defects in Solids</i> . 1998 , https://doi.org/10.1016/S1350-4487(97)00035-8	IF: 1.024
32.	Structural modifications and track registration response of some gamma irradiated polycarbonate detectors., D. Sinha , S. Ghosh, K.K. Dwivedi, D. Fink. <i>Radiation Effects and Defects in Solids</i> . Vol. 145, 45-56, 1998 , https://doi.org/10.1080/10420159808220022	IF: 1.024
31.	Photon induced modifications of Triafol-BN and Triafol-TN polymeric detectors. D. Sinha , G.K. Sarkar, S. Ghosh, A. Kulukshetra, K.K. Dwivedi, D. Fink, <i>Radiation Measurements</i> . Vol 29(6), 599-604, 1998	IF: 1.898

30.	Modifications of radiation detection response of PADC track detectors by Photons, D. Sinha , K.K. Dwivedi, <i>Radiation Physics and Chemistry</i> . Vol 53, 99-105, 1998 , https://doi.org/10.1016/S0969-806X(98)00013-9	IF: 2.858
29.	Mean ranges of ¹⁶¹ Dy in Hostaphan and Kapton and maximum etchable track lengths in ZnP-Glass Detector., S. Ghosh, D. Sinha , A. Srivastava, A. Kulukshetra, K.K.Dwivedi, R. Brandt. <i>Radiation Measurements</i> . Vol. 28, 41-44, 1997 , https://doi.org/10.1016/S1350-4487(97)00036-X	IF: 1.898
28.	Energy-Loss of 20-80 MeV ¹² C ions in polymeric solids, K.K. Dwivedi, D. Sinha , S. Singh, A. Srivastava, D. Avasti., <i>Radiation Measurements</i> . Vol. 28, 37-40, 1997 , https://doi.org/10.1016/S1350-4487(97)00035-8	IF: 1.898
27.	Effect of gamma rays on PADC detectors., D. Sinha , S. Ghosh, A. Srivastava, V.G. Dedgaonkar, K.K. Dwivedi., <i>Radiation Measurements</i> . Vol. 28, 145-148, 1997 , https://doi.org/10.1016/S1350-4487(97)00056-5	IF: 1.898
26.	Measurement of range and energy loss of energetic ⁵⁸ Ni and ¹⁹⁷ Au ions in Kapton., A. Srivastava, C. Laldawngliana, D. Sinha , S. Ghosh, K. K. Dwivedi, R. Brandt., <i>Nuclear Science Journal</i> . Vol. 33, 85 - 93, 1996	IF: 0.82
25.	Range and energy loss of ⁵⁸ Ni and ¹²⁹ Xe ions in Hostaphan., A. Srivastava, C.Laldawngliana, D.Sinha , S.Ghosh, K.K.Dwivedi, R. Brandt, <i>Indian Journal of Pure & Applied Physics</i> . Vol. 34, 371 - 375, 1996	IF: 0.822
24.	Energy-loss and Mean ranges of ⁸⁶ Kr and ¹⁹⁷ Au in Tantalum. K.K.Dwivedi, A.Srivastava, S.Ghosh, D.Sinha , A.Saxena, R. Brandt., <i>Radiation Measurements</i> . Vol. 26, 561 - 563, 1996 , https://doi.org/10.1016/1350-4487(96)00002-9	IF: 1.898
23.	Measurement of potential alpha energy exposure (PAEE) of Radon and its progenies in dwellings in the North-Eastern region of India. A. Srivastava, R.Lalramengzami, C.Laldawngliana, D.Sinha , S.Ghosh, K.K.Dwivedi, A.Saxena, T.V. Ramachandran., <i>Radiation Measurements</i> . Vol.26, 291 - 295, 1996 , https://doi.org/10.1016/1350-4487(95)00295-2	IF: 1.898
22.	Measurement of Indoor Radon in some Dwellings in Aizawl (India).K.K.Dwivedi, A.Srivastava,S.Ghosh, D.Sinha , C.Laldawngliana, R. Lalramengzami, A. Saxena. <i>Indoor Environment</i> . Vol.4, 362 – 364, 1995 , https://doi.org/10.1177/1420326X9500400607	IF: 1.900

C. PAPER PUBLICATIONS (In Referred Journals)

21. Molecular interaction studies of Chitosan cross linked compounds as drug delivery substrate for anti cancer agents, Parimal Chandra Bhomick, Salem Pradeep Singh, Chitta Ranjan Deb, **Dipak Sinha**, Lakshmi Narayan Kakoti and Bolin Kumar Konwar, *Journal of Bio Medical Sciences*, 5 No. 3:17, **2016**.
20. Synthesis and characterization of activated carbon from *biowaste of the plant Manihot Esculenta*, Chubaakum Pongener, Daniel Kibami, K. S. Rao, R.L. Goswami, and **Dipak Sinha**., *Chemical Science Transactions*, 4(1), **2015**.
19. Preparation and characterization of activated carbon from *Fagopyrum esculentum* Moench by HNO₃ and H₃PO₄ chemical activation., Daniel Kibami, Chubaakum Pongener, K. S. Rao and **Dipak Sinha**, *Der Chemica Sinica*, 5(4):46-55, **2014**.
18. Environmentally benign and facile one-pot synthesis of cyanamides mediated by phase transfer reagent ethyltriphenylphosphonium tribromide., Upasana Bora Sinha, **Dipak Sinha** and Latonglila Jamir, *International Journal of Current Research*, 5(12), 4205-4207, **2013**.
17. Physico-Chemical Analysis of Water Samples Of Mokokchung Town – A Preliminary Report., Daniel Kibami, Chubaakum Pongener, Bendangsenla K., K.S. Rao and **Dipak Sinha**., *Journal of Applicable Chemistry*, 2(2), 297-302, **2013**.(UGC Care list Journal)
16. Modifications in polymeric properties due to different doses of gamma irradiation ranging from 10¹ Gy to 10⁶ Gy: An account., **Dipak Sinha**., *Adv. Appl. Sci. Res*, 4(6):225-236, **2013**.
15. Measurement of Radon and Thoron progeny concentration in some dwellings of Nagaland state – an initial report., **D. Sinha**, U.B. Sinha, D. Kibami, C. Pongener, R. Mishra and Y. S. Mayya., *Journal of Applicable Chemistry*, 2 (4):825-831, **2013**.(UGC care list Journal)

14. Effect of gamma radiation on dielectric properties of polyacetate polymer., Toka Swu, Chuba Akum Pongener, **Dipak Sinha** and Neelotpal Sen Sarma., *Der Sinica Chemica*, 4(3):132-136, **2013**.
13. Thermal studies of PADC Homalite detector, and effect of gamma radiation on its thermal properties., **Dipak Sinha** and Toka Swu, *Journal of Applicable Chemistry*, 2(2), 297-302, **2013**.
12. A Comparison of Thermal Properties for Etched and Unetched PADC Detector Exposed to High Doses of Gamma Radiation., **Dipak Sinha**, *Journal of Applicable Chemistry*, 1 (2), 297-302, **2012**. **(UGC care list Journal)**
11. Effect of gamma radiation on thermal stability of PADC-American Acrylics detector., **Dipak Sinha**, Tokavi and Toka Swu., *Adv. Appl. Sci. Res*, 3 (4), 2128-2133, **2012**.
10. Structural Modifications of Gamma Irradiated Polymers: an FT-IR Study., **Dipak Sinha**., *Adv. Appl. Sci. Res*, 3 (3), 1365-1371, **2012**.
9. Nanotechnology with Ion Tracks., D. Fink, **D. Sinha** and A.V.Petrov., *Nagaland University Research Journal*, 33-37, **2005**. **(UGC approved journal, prior to care list)**
8. Gamma Induced Modifications on Track Properties of PADC Detector., **D. Sinha** and Toka Swu., *Nagaland University Research Journal*, 24-27, **2003**. **(UGC approved journal, prior to care list)**

D. BOOK/CHAPTER IN A BOOK

7. Gamma radiation induced modifications of polymeric solid state nuclear track detectors, ISBN No: 978-3- 639-71064-9, 2014, Lambert Publishing House, Germany, 2014. Author: **Dipak Sinha**
6. Nanotechnology with ion track – tailored media., D.Fink, **D.Sinha** ,J.Opitz-Coutureau, A.V.petrov,S.E.Demyanov, W.R.Fahrne, K.Hoppe, A.K.Fedotov, L.T.Chadderton, A.S.Berdinsky Physics, Chemistry and Application of Nanostructures, Published by **World Scientific**, Pg. No: 474-481, 2005 (Chapter in a book).
5. Waste biomass for synthesis of porous activated carbon and its application in water treatment, Mridushmita Baruah, Aola Supong, Parimal Chandra Bhomick, Chubaakum Pongner, Supongtoshi Jamir and **Dipak Sinha**, **Climate Change and Sustainable Development: Perspective from North East India** (Chapter in a book), Pg. No: 170-188, 2019 (**Purbayon publication**).
4. Removal of Arsenic from water by locally available sand modified with a coating of Iron Oxides, Champa Gogoi, Dipak Sinha and Rajib Lochan Goswamee, **Trends in Environment responsive chemical processes**, Pg. No: 57-188, 2019 EBS Publishers, Guwahati.
3. Efficient Fluoride removal from contaminated water using the scale of Bohu Fish (*Labeo rohita*), Mridushmita Baruah, Kikrusenuo Sanchu, **Dipak Sinha**, **Environment: Climate Change and Natural Challenges**, ISBN No: 171-93-90919-60-4, Pg. No: 171-186.

E. OPINION PUBLISHED

2. Waterborne Pathogens in Drinking Water-Existing Removal Techniques and Methods, Aola Supong, Parimal Chandra Bhomick and **Dipak Sinha**, *MOJ Toxicology*, Volume 3 Issue 6, 2017.
1. Organic pollutants in water and its remediation using biowaste activated carbon as greener adsorbent, Parimal Chandra Bhomick, Aola Supong and **Dipak Sinha**. *International Journal of Hydrology*, 1,3, 2017.

*Details about the Journals

<u>Name of the Journal</u>	<u>Publishing House</u>
Radiation Measurements	Elsevier Science Ltd.
Radiation Effects and Defects in Solids	Taylor & Francis
Nuclear Instrumentation and Methods in Physics	Elsevier Science Ltd.
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Materials Today Communications	Elsevier Science Ltd
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