

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Ad-hoc Faculty	NIT Andhra Pradesh	22-08-2022	15-12-2022
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8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	IIT Guwahati	2022	-	Chemical Engineering
M.Tech	NIT Agartala	2015	9.24	Chemical Engineering
B.Tech	NIT Agartala	2009	8.10	Chemical Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2021	Best Oral Presentation Award	SVNIT Surat
2019	Best Presentation Award	Assam Engineering College

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

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13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
- (iii) Projects guided at Postgraduate level
- (iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
06/08/2021 to 08/08/2021	Advances in Sustainable Research for Energy and Environmental Management (ASREEM 2021)	International	Paper presenter	SVNIT Surat	Online
05/02/2020 to 07/02/2020	International Conference on Advances in Chemical	International	Paper presenter	UPES University Dehradun	UPES University Dehradun

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	Engineering-2020 (AdChE-2020)				
18/12/2019 to 21/12/2019	6 th International Conference on Advanced Nanomaterial and Nanotechnology (ICANN-2019)	International	Poster presenter	IIT Guwahati	IIT Guwahati
06/12/2018 to 09/12/2018	12th International Conference on Complex Fluids and Soft Matter (COMPFLU - 2018)	International	Poster presenter	IIT Roorkee	IIT Roorkee
30/08/2019	TEQIP III Sponsored 1st National Student Conference on Advances in Chemical Engineering 2019	National	Paper presenter	Assam Engineering College	Assam Engineering College

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Eight-week online training program on Data Science for Engineers	National	04/10/2023 to 02/12/2023	Coordinator	Online

18. Invited Talks delivered

Topic	Date	Inviting Organization
Growth of Carbon Dot-Decorated ZnO Nanorods on a Graphite-Coated Paper Substrate to Fabricate a Flexible and Self-Powered Schottky	19/08/2020 to 20/08/2020	Indian Institute of Technology Guwahati, and University of Aberdeen

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Diode for UV Detection		
Carbon Dot: A new yet versatile member in the realm of Nano Science and Nanotechnology	17/10/2022 to 22/10/2022	Department of Chemical Engineering, National Institute of Technology Agartala
Carbon Dot as an emerging member in the realm of Nanoscience and Nanotechnology	29/01/2024 to 02/02/2024	Department of Bioscience and Biotechnology, Chaitanya Bharathi Institute of Technology

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Rupam Sinha	Design of Aluminum Doped ZnO/Phenyl-C-Butyric Acid Methyl Ester/Tungsten Disulfide (AZO/PCBM/WS ₂)	Langmuir	40	7114–7126	2024	3.9

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	Heterojunction-Based Device for Applications in Solar Cells and Broadband Self-Powered Photodetectors					
Rupam Sinha, Nirmal Roy, and Tapas K. Mandal	N-Doped Carbon Dots and ZnO Conglomerated Electrodes for Optically Responsive Supercapacitor Applications	Langmuir	39	4518-4529	2023	3.9
Rupam Sinha, Nirmal Roy, and Tapas K. Mandal	SWCNT/ZnO nanocomposite decorated with carbon dots for photoresponsive supercapacitor applications	Chemical Engineering Journal	431	133915	2022	15.1
Nirmal Roy, Rupam Sinha, Harshal B. Nemade and Tapas K. Mandal	Synthesis of MoS ₂ -CuO nanocomposite for room temperature acetone sensing application	Journal of Alloys and Compounds	910	164891	2022	6.2
Rupam Sinha, Nirmal Roy, Ravula Rajasekhar, Aabhas Karnawat and Tapas K. Mandal	N-Doped Carbon Dot from Cigarette-Tobacco: Picric Acid Sensing in Real Water Sample and Synthesis of CD-MWCNT Nano-Composite for UV-Photodetection	Journal of Environmental Chemical Engineering	9	104971	2021	7.7
Rupam Sinha, Nirmal Roy and Tapas K. Mandal	Growth of Carbon Dot-Decorated ZnO Nanorods on a Graphite-Coated Paper Substrate to Fabricate a Flexible and Self-	ACS applied materials & interfaces	12	33428-33438	2020	9.5

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	Powered Schottky Diode for UV Detection					
Nirmal Roy, Rupam Sinha , Thomas T. Daniel, Harshal B. Nemade and Tapas K. Mandal	Highly sensitive room temperature CO gas sensor based on MWCNT-PDDA composite	IEEE Sensors Journal	20	13245-13252	2020	4.3
Rupam Sinha , Agam Bisht, Saptak Rarotra and Tapas K. Mandal	Continuous Semi-Micro Reactor Prototype for the Electrochemical Reduction of CO ₂ into Formic Acid	Industrial & Engineering Chemistry Research	59	1737-1745	2020	4.2
Rupam Sinha , Anil P. Bidkar, Ravula Rajasekhar, Siddhartha S. Ghosh and Tapas K. Mandal	A facile synthesis of nontoxic luminescent carbon dots for detection of chromium and iron in real water sample and bio-imaging	Canadian Journal of Chemical Engineering	98	194-204	2019	2.5

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Rupam Sinha , Ravula Rajasekhar, Tapas Mandal, K	Carbon dots photoluminescence technique to detect total Chromium in industrial wastewater	The International Nanotech & Nanoscience Conference and Exhibition Nanotech France 2019	1-8		France	2019

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(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number