

Dr. NANDITA DASGUPTA, B.Tech., Ph.D.PDF(IIFPT), PDF (LVPEI), FBSS, FLS (London)

Assistant Professor, Department of Biotechnology,

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Academic Details

Course	Institute	University/ Board	Year	%/ CGPA
Ph.D. (Integrated) Biotechnology	Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, India	VIT University, Vellore, Tamil Nadu, India	2017	9.13
B.Tech., Biotechnology	Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, India	VIT University, Vellore, Tamil Nadu, India	2013	8.47
12 th	Lucknow Public School, Lucknow, UP, India	CBSE Board	2009	87.2 %
10 th	St. Thomas School, Lucknow, UP, India	ICSE Board	2007	83.28%

Experiences

SN	Institution Place	Position	From	To
1.	Department of Biotechnology, Institute of Engineering and Technology, Dr. APJ Abdul Kalam Technical University, Uttar Pradesh (Formerly Uttar Pradesh Technical University), Lucknow, Uttar Pradesh - 226021, India	Assistant Professor	20-08-2018	Till Date
2.	Stem Cell & Zebra Fish Lab, LV Prasad Eye Institute, Bhubaneswar, Odisha, India	Research Associate I	01-03-2018	31-07-2018
3.	Indian Institute of Food Processing Technology, Ministry of Food Processing Industries, Govt. of India, Thanjavur, Tamil Nadu, India	Research Associate	21-11-2017	28-02-2018
4.	VIT University, Vellore, Tamil Nadu, India	Research Associate	02-09-2013	31-08-2017
5.	CSIR-CFTRI, Mysore, Karnataka, India	Dissertation Student	07-12-2012	02-05-2013
6.	Uttar Pradesh Drugs and Pharmaceuticals Co. Ltd., Lucknow, UP, India	Research Trainee	23-05-2011	22-06-2011

Subject Taught

- MTBT101: Applied Biochemistry and Molecular Biology
- MTBT011: Immunology and Vaccine Technology
- MTBT032: Applied Food Biotechnology
- MTBT051: Tissue Culture Techniques
- MTBT202: Entrepreneurship, IPR and Biosafety

GATE/NET Qualification: GATE 2013; 89.9 percentile

Doctoral Dissertation Details

Name and address of PhD registered University:	VIT University, Vellore, Tamil Nadu – 632014
Name and address of institute/lab of PhD work	Nano-food Research Group (SMV-115), School of Bio Science and Technology, VIT University, Vellore, Tamil Nadu – 632014
Name and address of PhD supervisor:	Dr. Chidambaram Ramalingam, Senior Professor, School of Bio Science and Technology, VIT University, Vellore, Tamil Nadu – 632014 Contact: cramalingam@vit.ac.in ; cramalingam0529@gmail.com ; +91-9566656758
Title of PhD work:	Toxicological Evaluation and Risk Assessment of Silver Nanoparticles on Different Biological Models
Oral Viva Voce Finished on	Date of Ph.D. registration: 10 th July 2013 Thesis Submitted - 26 th September, 2017 Oral Viva Voce – 06 th April 2018
Major field of work	Nanobiotechnology
Total number of publications from PhD work	Research Article: 5 Review article: 3 Book Chapters: 3 Books: 5

Awards and Honors:

S.No.	Awards/Honors	Date	Awarded by	Details
1.	Best Young Scientist Award(Male) (Below 40 years)	23-12-2018	Global Education and Corporate Leadership Awards (GECL-2018)	Recognized for high-throughput research outcome
2.	Elected Fellow of Linnean Society	18-10-2018	The Linnean Society, London	Recognized for research outcome
3.	Elected Fellow of Bose Science Society	27 Sept 2018	Bose Science Society	For outstanding research contribution
4.	Mentor	09-2018	Atal Innovation Centre, Bhubaneswar, Odisha, India	To recognize the research interest towards innovative science
5.	IOSRD Achievement Award	30-12-2017	International Organization for Scientific Research and Development, Chennai, India	- For outstanding contribution in Nanotechnology and Food Nanotechnology
6.	Outstanding Reviewer Award	11-2014	Elsevier Inc., Amsterdam, The Netherlands	- In recognition of the contributions made to the quality of the journal
7.	Research Award	04-2017	VIT University, Vellore, India	For contribution in research through publication in peer reviewed journals and books
8.	Special Achiever Award	04-2016	VIT University, Vellore, India	On the basis of exemplary performance at various National & International events and in recognition of meritorious academic performance
9.	Research Award	04-2016	VIT University, Vellore, India	For contribution in research through publication in peer reviewed journals
10.	Achiever Award	04-2015	VIT University, Vellore, India	On the basis of exemplary performance at various National & International events and in recognition of academic performance

11.	Research Award	04-2015	VIT University, Vellore, India	For contribution in research through publication in peer reviewed journals
12.	Best Poster Award	19-12-2015	Association of Food Scientists and Technologists (India)	- Title: Enhancing anticancerous activity of chlorambucil using oil-in-water nanoemulsion - Authors: Dasgupta N , Ranjan S et al. - Conference details: AFSTI XXIV conference, Parbhani, Maharashtra, India
13.	Elsevier Advisory Panel	05-06-2015	Elsevier Inc., Netherlands	Prototype Evaluation for Mendeley and other Elsevier Products
14.	Research Award	23-04-2014	VIT University, Vellore, India	For contribution in research through publication in peer reviewed journals
15.	First Position	19-09-2010	VIT University, Vellore, India	- In the event 'Biology with Fun' conducted during 'graVITas' 10, an International Knowledge Carnival'
16.	First Position	01-2010	VIT University, Vellore, India	- In the event 'Fun Arena' conducted during 'International Sports and Cultural Festival – Riviera 2010'
17.	639th All India Rank	03-04-2008	Science Olympiad Foundation, New Delhi	- For distinctive performance in second round of 10 th National Science Olympiad held on 24 th February, 2008
18.	All India Rank -249 and City Rank 2nd	15-01-2008	Science Olympiad Foundation, New Delhi	- For distinctive performance in first round of 10 th National Science Olympiad held on 29 th November, 2007

Professional Training

S.No.	Organization	Period		Details of Training/ Project undertaken
		From	To	
1.	Centre for Biomaterials, Cellular and Molecular Theranostics, VIT University, Vellore, Tamil Nadu, India	10-01-2018	11-01-2018	Two Days International Workshop on Next Generation of Biomaterials and Tissue Engineering Solutions (NxG-BiTES)
2.	Elsevier Publishing Campus, Elsevier Website (Online)	09-06-2017	09-06-2017	The nuts & bolts of Peer Review: a discussion by Biomaterials Editors
3.	Elsevier Publishing Campus, Elsevier Website (Online)	07-06-2017	07-06-2017	Plagiarism
4.	Academic Staff College of VIT University, Vellore, India	29-04-2015	29-04-2015	Faculty Development Program (FDP) titled 'Developing Funded Research Project: Opportunities and Options for Starters
5.	Academic Staff College of VIT University, Vellore, India	27-02-2015	27-02-2015	One-Day workshop on 'Excellence in Academic Writing'
6.	Academic Staff College of VIT University, Vellore, India	27-01-2015	27-01-2015	Faculty Development Program (FDP) titled 'Writing Effective Funded Project Proposals'
7.	Academic Staff College of VIT	22-01-2015	22-01-2015	Faculty Development Program (FDP) titled 'Teach Engineering Through Flash Animation'

	University, Vellore, India			
8.	Academic Staff College of VIT University, Vellore, India	27-11-2014	27-11-2014	Faculty Development Program (FDP) titled '3D Shapes in PowerPoint'
9.	Department of Spices & Flavour Science, CSIR-CFTRI, Mysore, Karnataka, India	07-12-2012	02-05-2013	Six months research dissertation, on ' <i>In-vitro</i> and <i>in-vivo</i> studies of antidiabetic activity of <i>Solanum nigrum</i> leaves'
10.	School of Bio Sciences and Technology, VIT University, Vellore, Tamil Nadu	16-03-2012	16-03-2012	One Day Training And Workshop on "Transitioning into Professional World"
11.	VIT Technology Business Incubator (TBI), VIT University, Vellore, Tamil Nadu	24-10-2011	02-11-2011	Short-term training Program in HPLC, GC, AAS and UV-Vis Spectrophotometer
12.	Uttar Pradesh Drugs and Pharmaceuticals Co. Ltd., Lucknow, UP, India	23-05-2011	22-06-2011	One month industrial training on Pharmaceutical Quality Control

Editorial Experience

SN	Editorial Role	Journal, Publisher & Country	Impact Factor	From	To
1.	Associate Editor	Environmental Chemistry Letters, Springer	3.59	07-2016	Till Date
2.	Editorial Board Member	EC Microbiology	-	10-2016	Till Date
3.	Editorial Board Member	Nanometrics (UK)	-	09-2017	Till Date
4.	Editorial Board Member	EC Nutrition	-	10-2017	Till Date
5.	Editorial Board Member	Advances in Applied Science Research, iMedPub, USA	-	06-2015	12-2016
6.	Reviewer	Biomedicine & Pharmacotherapy	2.759	06-2018	Till Date
7.	Reviewer	Materials Science and Engineering: B	2.552	10-2017	Till Date
8.	Reviewer	International Journal of Nanomedicine, Dovepress, USA	4.383	04-2016	Till Date
9.	Reviewer	Value in Health, Elsevier Inc., USA	4.235	04-2014	Till Date
10.	Reviewer	International Journal of Food Properties, Taylor & Francis, USA	1.5	07-2015	Till Date
11.	Reviewer	Journal of Food Processing and Preservation, Wiley, USA	1.19	03-2016	Till Date
12.	Reviewer	Value in Health Regional Issue, Elsevier Inc., USA	-	06-2015	Till Date

13.	Reviewer	Journal of Hazardous Materials	6.434	28-07-18	Till Date
14.	Reviewer	Trends in Food Science and Technology	6.609	30-07-18	Till Date
15.	Reviewer	ACS Omega		10-12-18	Till Date

Invited talk/guest lecture

- **Invited guest lecture** on the topic entitled “Engineering nano-silver by novel thermal co-reduction approach and its toxicity” at Fourth International Conference On Nanomedicine And Tissue Engineering (**ICNT 2016**) organized by Mahatma Gandhi University, Kottayam, **India** & Wuhan University, Hubei, **China** & Nicholas Copernicus University, **Poland** from **12-14 August 2016 at MGU, Kottayam, Kerala, India**
- **Invited guest lecture** at Sigma-Aldrich Inc. (Bangalore, India) on the topic entitled “Material Science and Life Science: Research trends and opportunities between Academia and Industries” on 12th September 2014

Conference/meetings/seminars/Events organized or chaired

- **Chairperson** of session on “Biotechnology Invocation” in 2nd International Conference on Conscientious and Unimpeachable Technologies (ICCUT-2017) organized by St. Andrews Institute Of Technology And Management, Gurugram, India and technically sponsored by Institute of Institutional Industrial Research (IIIR) held on 14th October 2017
- **Chairperson** of sessions on ‘Nano in Drug Delivery’ at Fourth International Conference On Nanomedicine And Tissue Engineering (**ICNT 2016**) organized by Mahatma Gandhi University, Kottayam, India & Wuhan University, Hubei, China & Nicholas Copernicus University, Poland from **12-14 August 2016 at MGU, Kottayam, Kerala, India**
- **Founder-Coordinator** of the first edition of “VIT Bio Summit’12” (Bio School Technical Fest to ligate academia and industry) held at VIT University, Vellore Tamil Nadu, 3rd – 5th April 2012
- **Event Coordinator** for the event The 4th Estate of graVITas’11, an International Knowledge Carnival held at VIT University, Vellore, India from 16th – 18th September 2011
- **Organizing-Volunteer** during The International Sports and Cultural Carnival, Riviera’11 held at VIT University, Vellore, India from 30th Jan – 2nd Feb 2011
- **Committee Coordinator** for Reception Committee of graVITas’10, an International Knowledge Carnival held at VIT University, Vellore, India from 17th – 19th September 2010
- **Organizing-Volunteer** for the event Biology with Fun of graVITas’10, an International Knowledge Carnival held at VIT University, Vellore, India from 17th – 19th September 2010

Scientific Association

- Elected Fellow – Bose Science Society

- Elected Fellow – The Linnaean Society
- Life Member - Institute of Transgene Life Sciences
- Honorary Life Member –Indian Chemical Society
- Member- Association of Food Scientists and Technologists, India

Publications

(*Corresponding author)

1. Hosseini SA, Abbasian AR, Gholipour O, Shivendu R, **Dasgupta N** (2018) Adsorptive removal of arsenic from real sample of polluted water using magnetic GO/ZnFe₂O₄nanocomposite and ZnFe₂O₄ nanospinel. International Journal of Environmental Science and Technology. DOI: 10.1007/s13762-018-2140-x (**Impact Factor = 2.037**)
2. Walia N, Dasgupta N, Ranjan S*, Chidambaram R, Gandhi M (2019) Methods for nanoemulsion and nanoencapsulation of food bioactives. Environmental Chemistry Letters. DOI: 10.1007/s10311-018-00850-0. (**Impact Factor = 3.125**) (Just Accepted)
3. Dasgupta N, Ranjan S*, Gandhi M (2019) Nanoemulsions in Food: Market demand. Environmental Chemistry Letters. DOI: 10.1007/s10311-019-00856-2. (**Impact Factor = 3.125**)
4. Dasgupta N, Ranjan S, Ramalingam C (2019) Silver Nanoparticles Engineered by Thermal Co-Reduction Approach Induces Liver Damage in Wistar Rats: Acute and Sub-Chronic Toxicity Analysis. 3 Biotech. DOI: 10.1007/s13205-019-1651-6 (**Impact Factor = 1.497**)
5. Walia N, Dasgupta N, Shivendu R, Chidambaram R, Gandhi M (2019) Food-grade nanoencapsulation of vitamins. Environmental Chemistry Letters. DOI: 10.1007/s10311-018-00855-9. (**Impact Factor = 3.125**)
6. Dasgupta N, Ranjan S*, Gandhi M (2018) Nanoemulsion ingredients and components. Environmental Chemistry Letters. DOI: 10.1007/s10311-018-00849-7 (**Impact Factor = 3.125**)
7. Ranjan S*, Dasgupta N, Singh S, Gandhi M (2018) Toxicity and regulations of food nanomaterials. Environmental Chemistry Letters. DOI: 10.1007/s10311-018-00851-z (Impact Factor = 3.125)
8. **Dasgupta N**, Shivendu R, Debasish M, Chidambaram R (2018) Thermal Co-reduction engineered silver nanoparticles induce oxidative cell damage in human colon cancer cells through inhibition of reduced glutathione and induction of mitochondria-involved apoptosis. Chemico-Biological Interactions. DOI: [10.1016/j.cbi.2018.07.028](https://doi.org/10.1016/j.cbi.2018.07.028) (**Impact Factor = 3.296**)
9. Kadiyala NK, Mandal BK, Shivendu R, **Dasgupta N** (2018) Bioinspired gold nanoparticles decorated reduced graphene oxide nanocomposite using Syzygiumcumini seed extract: Evaluation of its biological applications. Materials Science and Engineering C. DOI: [10.1016/j.msec.2018.07.075](https://doi.org/10.1016/j.msec.2018.07.075) (**Impact Factor = 5.080**)
10. Meghani N, Patel P, Kansara K, Ranjan S,**Dasgupta N**, Chidambaram R, Kumar A (2018) Formulation of vitamin D encapsulated cinnamon oil nanoemulsion: Its potential anti-cancerous activity in human alveolar carcinoma cells. Colloids and Surfaces B: Biointerfaces 166: 349-357 (**JCR IF = 3.997**)
11. **Dasgupta N**,Ranjan S, Sudandiradoss C, Ramalingam C, Kumar A (2018) Titanium dioxide nanoparticle-protein interaction explained by docking approach. International Journal of Nanomedicine. 13:47-50. (**JCR Impact Factor = 4.370**)
12. Aditi J, Ranjan S*, **Dasgupta N**, Chidambaram R (2018) Nanomaterials in food and Agriculture:

- an overview on their safety concerns and regulatory issues. *Critical Reviews in Food Science and Nutrition* 58: 297-317. DOI: 10.1080/10408398.2016.1160363 (**JCR Impact Factor = 6.015**)
13. **Dasgupta N**, Ranjan S, Chidambaram R (2017) Applications of Nanotechnology in agriculture and water quality management. *Environmental Chemistry Letters*. DOI: 10.1007/s10311-017-0648-9 (**JCR Impact Factor = 3.125**)
 14. Shukla A, **Dasgupta N***, Ranjan S, Singh S, Chidambaram R (2017) Nanotechnology towards prevention of anemia and osteoporosis: from concept to market. *Biotechnology & Biotechnological Equipment* 31(5): 863–879. DOI: 10.1080/13102818.2017.1335615 (**Impact Factor = 1.227**)
 15. Walia N, **Dasgupta N***, Ranjan S, Chen L, Chidambaram R (2017) Fish Oil Based Vitamin D Nanoencapsulation by Ultrasonication and Bioaccessibility Analysis in Simulated Gastro-Intestinal Tract. *Ultrasonics Sonochemistry* 39: 623-635. DOI: [10.1016/j.ultsonch.2017.05.021](https://doi.org/10.1016/j.ultsonch.2017.05.021) (**Impact Factor = 6.012**)
 16. Balaji S, Mandal BK, Ranjan S, **Dasgupta N**, Ramalingam C (2017) Nano-zirconia – Evaluation of its antioxidant and anticancer activity. *Journal of Photochemistry & Photobiology, B: Biology* 170: 125-133. DOI: 10.1016/j.jphotobiol.2017.04.004. (**JCR Impact Factor = 3.165**)
 17. Maddinedi SB, Mandal BK, Patil SH, Andhalkar VV, Ranjan S, **Dasgupta N** (2017) Diastase induced green synthesis of bilayered reduced graphene oxide and its decoration with gold nanoparticles. *Journal of Photochemistry & Photobiology, B: Biology* 166: 252-258. DOI: 10.1016/j.jphotobiol.2016.12.008. (**JCR Impact Factor = 3.163**)
 18. Sai KT, Mandal BK, Ranjan S, **Dasgupta N** (2016) Cytotoxicity study of *Piper nigrum* seed mediated synthesized SnO₂ nanoparticles towards colorectal (HCT116) and lung cancer (A549) cell lines. *Journal of Photochemistry & Photobiology, B: Biology* 166: 158-168. DOI: 10.1016/j.jphotobiol.2016.11.017. (**JCR Impact Factor = 3.165**)
 19. **Dasgupta N**, Chidambaram R (2016) Silver nanoparticle antimicrobial activity explained by membrane rupture and reactive oxygen generation. *Environmental Chemistry Letters* 14: 477-485. DOI: 10.1007/s10311-016-0583-1. (**JCR Impact Factor = 3.125**)
 20. Janardan S, Suman P, Ragul G, Anjaneyulu U, Ranjan S, **Dasgupta N**, Ramalingam C, Sasikumar S, Vijayakrishna K, Sivaramakrishna A (2016) Assessment on Antibacterial Activity of Nanosized Silica derived from Hypercoordinated Silicon(IV) Precursors. *RSC Advances* 6: 66394-66406. DOI: 10.1039/C6RA12189F. (**JCR Impact Factor = 2.936**)
 21. **Dasgupta N**, Ranjan S, Srivastava P, Chidambaram R (2016) A spectroscopic study on interaction between bovine serum albumin and titanium dioxide nanoparticle synthesized from microwave-assisted hybrid chemical approach. *Journal of Photochemistry & Photobiology, B: Biology* 161:472-481. DOI: 10.1016/j.jphotobiol.2016.06.015. (**JCR Impact Factor = 3.165**)
 22. Ranjan S, **Dasgupta N***, Niharika W, Thara CC, Chidambaram R (2016) Microwave Blanching: An Emerging Trend in Food Engineering and its Effects on *Capsicum annum* L. *Journal of Food Process Engineering* 40: e12411 DOI: 10.1111/jfpe.12411. (**JCR Impact Factor = 1.955**)
 23. **Dasgupta N**, Ranjan S, Patra D, Srivastava P, Ashutosh K, Ramalingam C (2016) Bovine serum albumin interacts with silver nanoparticles with a “side-on” or “end on” conformation. *Chemico Biological Interaction*. 253: 100-111. DOI: 10.1016/j.cbi.2016.05.018 (**JCR Impact Factor = 3.296**)
 24. **Dasgupta N**, Ranjan S, Bhavapriya R, Ganesh SA, Chidambaram R, Ashutosh K (2016) Microwave-irradiation-assisted hybrid chemical approach for titanium dioxide nanoparticle synthesis: microbial and cytotoxicological evaluation. *Environmental Science and Pollution Research* 23:12287-302. DOI: 10.1007/s11356-016-6440-8. (**JCR Impact Factor = 2.800**)
 25. **Dasgupta N**, Ranjan S, Sudandiradoss C, Ramalingam C, Ashutosh K (2015) A novel approach to evaluate titanium dioxide nanoparticle-protein interaction through docking: an insight into the

- mechanism of action. Proceedings Of The National Academy Of Sciences, India - Section B: Biological Sciences 87: 937-843 DOI: 10.1007/s40011-015-0673-z
26. **Dasgupta N**, Ranjan S, Bhavapriya R, Venkatraman M, Chidambaram R, Avadhani GS, Ashutosh K (2015) Thermal co-reduction approach to vary size of silver nanoparticle: its microbial and cellular toxicology. Environmental Science and Pollution Research 23:4149–4163. DOI: 10.1007/s11356-015-4570-z (**JCR Impact Factor = 2.800**)
 27. **Dasgupta N**, Ranjan S, Shraddha M, Ashutosh K, Chidambaram R (2015) Fabrication of Food grade Vitamin E nanoemulsion by low energy approach: characterization and its application. International Journal of Food Properties 19: 700-708. DOI: 10.1080/10942912.2015.1042587. (**JCR Impact Factor = 1.845**)
 28. Maddineni SB, Badal KM, Ranjan S, **Dasgupta N** (2015) Diastase assisted green synthesis of size-controllable gold nanoparticles. RSC Advances 5: 26727-26733. DOI: 10.1039/C5RA03117F (**JCR Impact Factor = 2.936**)
 29. **Dasgupta N**, Ranjan S, Deepa M, Chidambaram R, Ashutosh K, Rishi S (2014) Nanotechnology in agro-food: from the field to plate. Food Research International 69: 381-400 (**JCR Impact Factor = 3.520**)
 30. **Dasgupta N**, Ranjan S, Arkadyuti RC, Melvin SS, Chidambaram R, Rishi S, Ashutosh K (2014) Nanoscience and nanotechnologies in food industries: opportunities and research trends. Journal of Nanoparticle Research 16 (6): 2464. DOI 10.1007/s11051-014-2464-5. (**JCR Impact Factor = 2.127**)

Book Chapters

(*Corresponding Author)

1. Satnam S, Ranjan S, **Dasgupta N**, Chidambaram R. Chapter 12: Nanotechnology in Functional Foods and Their Packaging. In Nanobiotechnology Human Health and the Environment 2018 (pp. 389-412. CRC Press, Boca Raton, Florida, USA.
2. Dasgupta N, Ranjan S. Nanotechnology in Food Sector. In An Introduction to Food Grade Nanoemulsions 2018 (pp. 1-18). Springer, Singapore. DOI: 10.1007/978-981-10-6986-4_1
3. Dasgupta N, Ranjan S. Food Nanoemulsions: Stability, Benefits and Applications. In An Introduction to Food Grade Nanoemulsions 2018 (pp. 19-48). Springer, Singapore. DOI: 10.1007/978-981-10-6986-4_2
4. Dasgupta N, Ranjan S. Fabrication of Nanoemulsion: A Brief Review. In An Introduction to Food Grade Nanoemulsions 2018 (pp. 49-62). Springer, Singapore. DOI: 10.1007/978-981-10-6986-4_3
5. Dasgupta N, Ranjan S. Ingredients and Components of Nanoemulsions. In An Introduction to Food Grade Nanoemulsions 2018 (pp. 63-82). Springer, Singapore. DOI: 10.1007/978-981-10-6986-4_4
6. Dasgupta N, Ranjan S. Food Engineering for Developing Food-Grade Nanoemulsions. In An Introduction to Food Grade Nanoemulsions 2018 (pp. 83-103). Springer, Singapore. DOI: 10.1007/978-981-10-6986-4_5
7. Dasgupta N, Ranjan S. Research Updates on Different Vitamins Based Nanoemulsions and Characterization of Nanoemulsions. In An Introduction to Food Grade Nanoemulsions 2018 (pp. 105-122). Springer, Singapore. DOI: 10.1007/978-981-10-6986-4_6

8. Dasgupta N, Ranjan S. Food-Grade Nanoemulsions: Review on the Possible Market. In *An Introduction to Food Grade Nanoemulsions 2018* (pp. 123-128). Springer, Singapore. DOI: 10.1007/978-981-10-6986-4_7
9. Dasgupta N, Ranjan S. Nanotechnology in Food Packaging. In *An Introduction to Food Grade Nanoemulsions 2018* (pp. 129-150). Springer, Singapore. DOI: 10.1007/978-981-10-6986-4_8
10. Dasgupta N, Ranjan S. Nano-Food Toxicity and Regulations. In *An Introduction to Food Grade Nanoemulsions 2018* (pp. 151-179). Springer, Singapore. DOI: 10.1007/978-981-10-6986-4_9
11. **Dasgupta N**, Ranjan S, Arkadyuti RC, Chidambaram R, Rishi S, Ashutosh K (2016) Nanoagriculture and water quality management. Shivendu R, Nandita D, Eric L (Eds.) *Sustainable Agriculture Reviews: Nanoscience in Food and Agriculture 1*. Springer International Publishing Switzerland. DOI: 10.1007/978-3-319-39303-2_1
12. Kumar R, Sundari S, Sen S, **Dasgupta N**, Chidambaram R (2016) Chapter 19 – Animal Fat- and Vegetable Oil-Based Platform Chemical Biorefinery. Brar SK, Sarma SJ, Pakshirajan K (Eds.) *Platform Chemical Biorefinery: Future Green Industry*. Elsevier Inc (USA). DOI: 10.1016/B978-0-12-802980-0.00019-5.
13. Ranjan S, **Dasgupta N**, Chidambaram R (2016) Ch.7: Nanoemulsions in Food Science and Nutritions. Book: *Nanotechnology in nutraceuticals: Production to consumption*. Shampa S, Yashwant P (Eds.) CRC press, Boca Raton, Florida. pp: 135
14. **Dasgupta N**, Ranjan S, Chidambaram R (2016) Ch. 17: Nanonutraceuticals: Are they safe? *Nanotechnology in nutraceuticals: Production to consumption*. Shampa S, Yashwant P (Eds.) CRC press, Boca Raton, Florida. pp: 317
15. Sannapaneni J, Pavankumar BB, **Ranjan S**, Dasgupta N, Samuel M, Chidambaram R, Akella S*, Kari V (2015) Chapter 12: A Chemist's Perspective on Bioenergy: Opportunities and Challenges. Navanietha KR, Jong-Sung Y (Ed.) *Bioenergy: Opportunities and Challenges*; Apple Academic Press, Oakville, Canada. ISBN: 9781771881098.

Authored Books

1. **An Introduction to Food Grade Nanoemulsions**, Nandita D, Shivendu R (Authors) SpringerInternational Publishing Singapore. ISBN: 978-981-10-6986-4. DOI: 10.1007/978-981-10-6986-4

Edited Books

1. **Environmental Nanotechnology** Volume 1, Dasgupta N, Ranjan S, Lichtfouse E (Eds.) Springer International Publishing Singapore. ISBN: 978-3-319-76090-2. DOI: 10.1007/978-3-319-76090-2
2. **Nanotechnology, Food Security and Water Treatment**, Gothandam KM, Shivendu R, Nandita D, Chidambaram R, Eric L (Eds.) Springer International Publishing Singapore. ISBN: 978-3-319-70166-0. DOI: 10.1007/978-3-319-70166-0
3. **Nanoscience in Food and Agriculture 5**, Shivendu R, Nandita D, Eric L (Eds.) SpringerInternational Publishing Switzerland. ISBN: 978-3-319-58496-6. DOI: 10.1007/978-3-319-58496-6

4. **Nanoscience in Food and Agriculture 4**, Shivendu R, Nandita D, Eric L (Eds.) SpringerInternational Publishing Switzerland. ISBN: 978-3-319-53112-0. DOI: 10.1007/978-3-319-53112-0
5. **Nanoscience in Food and Agriculture 3**, Shivendu R, Nandita D, Eric L (Eds.) SpringerInternational Publishing Switzerland. ISBN: 978-3-319-48008-4. DOI: 10.1007/978-3-319-48009-1
6. **Nanoscience in Food and Agriculture 2**, Shivendu R, Nandita D, Eric L (Eds.) SpringerInternational Publishing Switzerland. ISBN: 978-3-319-39306-3. DOI: 10.1007/978-3-319-39306-3
7. **Nanoscience in Food and Agriculture 1**, Shivendu R, Nandita D, Eric L (Eds.) SpringerInternational Publishing Switzerland. ISBN: 978-3-319-39303-2. DOI: 10.1007/978-3-319-39303-2
8. **Nanotoxicology: Toxicity Evaluation, Risk Assessment and Management**, Vineet K, Nandita D, Shivendu R (Eds.) CRC Press, Boca Raton, Florida, United States. ISBN:978-1-4987-9941-6
9. **Nano-food Engineering (A Volume in the Food Engineering Series)** Hebbar UH, Shivendu R, Nandita D, Mishra RK (Eds.) Springer International Publishing AG, Gewerbestrasse 11, 6330 Cham, Switzerland [In Press]
10. **Nano-carriers for drug delivery (A Volume in the Micro and Nanotechnologies Series)**, Mohapatra SM, Shivendu R, Nandita D, Mishra R, Sabu T (Eds.) Elsevier Inc. Cambridge, MA 02139, USA [In Press]
11. **Characterization and biology of nanomaterials for drug delivery (A Volume in the Micro and Nanotechnologies Series)**, Mohapatra SM, Shivendu R, Nandita D, Mishra R, Sabu T (Eds.) Elsevier Inc. Cambridge, MA 02139, USA [In Press]
12. **Applications of targeted nano-drugs (A Volume in the Micro and Nanotechnologies Series)**, Mohapatra SM, Shivendu R, Nandita D, Mishra R, Sabu T (Eds.) Elsevier Inc. Cambridge, MA 02139, USA [In Press]
13. **Environmental Toxicity of Nanomaterials**, Vineet K, Nandita D, Shivendu R (Eds.) CRC Press, Boca Raton, Florida, [In press]

Citation Indices (Google Scholar)

	All	Since 2011
Citations	1132	1122
h-index	21	21
i10-index	23	23

Oral/Poster/Conference

1. **Oral presentation** on topic entitled “Bovine Serum Albumin interacts with Silver nanoparticles with a side-on or end on conformation” in the one day UGC sponsored National Conference on Recent Trends in Chemistry organized by JyotiNivas College Autonomous in collaboration with Sigma Aldrich Chemicals Pvt. Ltd., Bangalore on 24th February 2016
2. **Poster Presentation** on the topic entitled “Enhancing anticancerous activity of chlorambucil through oil-in-water nanoemulsion” at XXVI Indian Convention of Food Scientist and Technologist organized

by Association of Food Scientists and Technologists (India) at College of Food Technology, VNMKV, Parbhani, Maharashtra, India during 18th – 19th December 2015[**Best Poster Award**]

3. **Poster Presentation** on the topic entitled “Comparative toxicological evaluation of chemically synthesized silver nanoparticles” in the ‘International Conference on Translational Nanomedicine (T-Nano-2014)’ held at Institute of Life Sciences, Ahmedabad University, Ahmedabad, India during 15th – 17th December 2014
4. **Poster Presentation** on the topic entitled “Bioactive compounds of *S. nigrum* leaves and their antidiabetic property” in the ‘7th International Food Convention (IFCON-2013) on NSURE – Health Foods’ organized by Association of Food Scientists and Technologists (India) at CSIR-CFTRI, Mysore during 18th – 21st December 2013
5. **Attended and Participated** in the technical sessions of ‘7th International Food Convention (IFCON-2013) on NSURE – Health Foods’ organized by Association of Food Scientists and Technologists (India) at CSIR-CFTRI, Mysore during 18th – 21st December 2013
6. **Poster Presentation** on the topic entitled “Time Dependent and Spectrophotometric Analysis of Blood Clotting Property of Marigold Leaf Extract” in ‘3rd World Congress on Biotechnology’ held at Hyderabad International Convention Centre, India during 13th – 15th September 2012 (Abstract published in J Biotechnol Biomater 2012, 2:6; 236)
7. **Poster Presentation** on the topic entitled “Antibacterial Activity of Leaf Extract of Mexican Marigold” in VIT Bio Summit 2012 held at VIT University, Vellore, India during 3rd – 5th April 2012
8. **Attended & Participated** in National Symposium on ‘Recent Trends in Biotechnology’ held at VIT University, Vellore, India on 24th March 2012
9. **Oral Presentation** on the topic entitled ‘Effects of High Temperature Processing on Antimicrobial Activity of Garlic and Cinnamon’ in 3rd International Conference on Science, Engineering and Technology organized by School of Mechanical and Building Sciences, VIT University, Vellore, India during 17th – 18th November 2011

Co-Curricular Activity:

- **Participated** in ‘World Heart Day Event’ conducted by Health Club, Youth Red Cross held at VIT University, Vellore, India on 22nd September 2011
- **Participated** in the event ‘Tattoo Making Workshop’ of Riviera’11, an International Sports and Cultural Carnival held at VIT University, Vellore, India on 30th Jan – 2nd Feb 2011
- **Participated** in the event ‘Recycle Bin’ of graVITas’10, an International Knowledge Carnival held at VIT University, Vellore, India on 17th – 19th September 2010
- **Participated** in the event ‘Delta-T’ of graVITas’09, an International Knowledge Carnival held at VIT University, Vellore, India on 11th – 13th September 2010
- **Participated** in the event ‘Foxhunt’ of graVITas’09, an International Knowledge Carnival held at VIT University, Vellore, India on 11th – 13th September 2010
- **Participated** in the event ‘Filter Design’ of graVITas’09, an International Knowledge Carnival held at VIT University, Vellore, India on 11th – 13th September 2010