

# RESUME

**NAME:** DR. RAMEN KUMAR KOLE

**DESIGNATION:** Professor

**CONTACTS:**



**1. OFFICIAL ADDRESS FOR CORRESPONDENCE:**

Department of Agricultural Chemicals,  
Faculty of Agriculture,  
Bidhan Chandra Krishi Viswavidyalaya,  
Mohanpur, Nadia – 741252,  
West Bengal, India

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**4. ORCID ID:** <https://orcid.org/0000-0003-0677-8780>

**5. GOOGLE SCHOLAR PROFILE:**

<https://scholar.google.com/citations?hl=en&user=C-52hIQAAAAJ>

**6. RESEARCHGATE PROFILE:** <https://www.researchgate.net/profile/Ramen-Kole>

**7. DATE OF BIRTH:** 04 / 01 / 1962

**8. DATE OF JOINING TO THE UNIVERSITY:** 20 / 01 / 1997

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**9. ACADEMIC PROFILE:**

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph. D. (Agriculture) in Agricultural Chemistry & Soil Science	Bidhan Chandra Krishi Viswavidyalaya	1993
MASTER'S	M. Sc. (Agriculture) in Agricultural Chemistry & Soil Science	Bidhan Chandra Krishi Viswavidyalaya	1986
BACHELOR'S	B. Sc. (Agriculture) Hons.	Bidhan Chandra Krishi Viswavidyalaya	1984

**10. EMPLOYMENT HISTORY: (Starting from present position)**

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Professor	Bidhan Chandra Krishi Viswavidyalaya	20.01.2012	Continuing
Associate Professor/ Reader	Bidhan Chandra Krishi Viswavidyalaya	20.01.2006	19.01.2012
Lecturer	Bidhan Chandra Krishi Viswavidyalaya	20.01.1997	19.01.2006

**11. ADMINISTRATIVE POST(S)/ RESPONSIBILITY(IES) (IF ANY)**

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From (Date)	To (Date)
1.	Head, Department of Agricultural Chemicals, BCKV	04.06.2008	05.07.2012
2.	Special Officer (Development), BCKV	11.12.2012	20.05.2015
3.	Head, Department of Agricultural Chemicals, BCKV	23.05.2015	29.05.2019
4.	Head, Department of Agricultural Chemicals, BCKV	30.05.2023	Continuing

**12. AREA OF RESEARCH : (Bulleted list)**

- Pesticide Chemistry;
- Pesticide Residue Analysis;
- Pesticide Formulation
- Herbal Pesticides
- Food and Water Quality;
- Ecotoxicology

**13. COURSES ASSOCIATED WITH:**

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
<b>UNDER GRADUATE</b>	ACH - 208	Crop Protection Chemicals & Their Application	1 + 1
	EC - 262	Chemistry of Pesticides	2 + 1
	ELP - 451	Production of bio-agents and botanical pesticides	0 + 10
<b>POST GRADUATE</b>	CC - 502	Basic Concepts in Laboratory Techniques	0 + 1
	AC - 501	Introduction to Agrochemicals	2 + 0
	AC - 502	Chemical Laboratory Techniques	1 + 2
	AC - 506	Agrochemicals for Insect, Mite and Termite Management	2 + 1
	AC - 509	Chromatographic and Spectroscopic Techniques	2 + 1
	AC - 510	Pesticide Residue Chemistry	2 + 1
	<b>Ph. D.</b>	AC - 601	Agrochemical Formulation Technology
	AC - 604	Pesticide Metabolism, Persistence, and Decontamination	2 + 1

**14. NUMBER OF STUDENTS SUPERVISED:****Master's: 15****Doctoral: 13**

**15. RESOURCE PERSON FOR OTHER INSTITUTES [involvement in teaching or working as member of academic/ research bodies (including Academic Expert like Member of Selection Committee, Paper Setter, Examiner, etc.) of other organizations, if any]**

- Agricultural Scientists Recruitment Board (ASRB)
- Amity University
- Banaras Hindu University (BHU), Varanasi
- Bihar Agricultural University, Sabour
- Dept. of Agriculture, Govt. of West Bengal
- IFFCO Limited, Kolkata
- Indian Institute of Technology (IIT), Roorkee
- Indian Agricultural Research Institute (IARI), New Delhi
- Indian Council of Agricultural Research (ICAR)
- Neotia University
- University of Calcutta
- University of Delhi
- Uttar Banga Krishi Viswavidyalaya
- Vidyasagar University
- Visva-Bharati

**16. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES**

- Crop and Weed Science Society of India
- Indian Association for the Cultivation of Science
- Indian Chemical Society
- Inland Fisheries Society of India
- Society of Pesticide Science, India

**17. PROJECT ACTIVITIES**

<b>SL. NO.</b>	<b>TITLE OF THE PROJECT</b>	<b>FUNDING AGENCY</b>	<b>ONGOING/ COMPLETED</b>	<b>PI/ Co-PI</b>
1.	Water Quality Monitoring of the River Ganga and Performance Monitoring of Sewage Treatment Plants in West Bengal.	National River Conservation Directorate, MoEF, Govt. of India.	Completed	PI
2.	Investigation on the persistence, degradation and effect of some agro-chemicals under field and/or laboratory conditions.	M/s. Indofil Chemicals Company	Completed	PI
3.	Promotion of Botanical Pesticides for Integrated Pest Management	RKVY Project, Agriculture Dept., Govt. of West Bengal	Completed	PI

4.	Residual fate of some agro-chemicals under various agro-ecological conditions	M/s. Indofil Industries Ltd.	Completed	PI
5.	Residue Analysis of Emamectin Benzoate 5% SG in/on Chilli and Okra and Pyrazo-sulfuran in Paddy	M/s. HPM Chemicals & Fertilizers Ltd.	Completed	PI
6.	Residue Analysis of Acetamiprid 20% SP in/on Cabbage and Rice	M/s. Coromandel Agrico Pvt. Ltd.	Completed	PI
7.	Buprofezin (25% SC) Residue in/on Rice and Chilli in West Bengal	M/s. Krish Biotech Research Pvt. Ltd.	Completed	PI
8.	Residue Analysis of Pretilachlor 50% EC in Transplanted Rice	M/s. Mahamaya Life Science Pvt. Ltd.	Completed	PI
9.	Residue Studies of Fipronil 5% SC on Rice and Sugarcane	M/s. Krishi Rasayan Export Pvt. Ltd.	Completed	PI
10.	Revenue Resource Fund of APEDA sponsored Export Testing Laboratory (ETL), BCKV	APEDA, Mins. of Commerce & Industry, Govt. of India	Completed	PI
11.	Residue Studies of Acephate 75 SP on Cotton, Rice and Safflower & Carbendazim 50 WP on Groundnut, Paddy & Grape	M/s. Krishi Rasayan Export Pvt. Ltd.	Completed	PI
12.	Harvest Residue and Persistence study of Paclbutrazole (23 SC) in Apple	M/s. Syngenta India Pvt. Ltd.	Completed	PI
13.	Long Term Residue Studies on Dow Agro Science Molecules	M/s. Dow Agro Science India Pvt. Ltd.	Completed	PI/ Co-PI
14.	Residue studies on Indofil Chemicals Molecules	M/s. Indofil Industries Ltd.	Completed	PI/ Co-PI
15.	Long Term Residue studies on Excel Molecules	M/s Excel Crop Care Ltd.	Completed	PI/ Co-PI
16.	Chloropyriphos 20% EC on Brinjal & Paddy and Dinotefuran 20% SG on Cotton & Paddy	M/s. Meghmani Organics Ltd.	Completed	PI
17.	Establishment of Testing & Training Center for Food and Water Quality	RIDF-XX Project, Agriculture Dept., Govt. of West Bengal	Completed	PI

## 18. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME

### A. ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Organized a Guest Lecture on “Plant Biostimulant Application for Crop Production” by Dr. P. Raha, Professor & Head, Dept. of Soil Sc. and Agril. Chemistry, Institute of Agricultural Sciences, Banaras Hindu University	1 day (16 <sup>th</sup> January, 2019)	Seminar Hall, Dept. of Agril. Chemicals, BCKV, Mohanpur	Convener
2.	Organized a Faculty Lecture on “Significance of pesticide residue	1 day (16 <sup>th</sup>	D. R. Sarkar Hall, BCKV,	Convener

	monitoring to comply with the global food safety requirements” by Dr. K. Banerjee, FRSC, FNAAS, National Fellow, ICAR and Principal Scientist, ICAR: NRC for Grapes	February, 2018)	Mohanpur	
3.	Exposure training on HPLC, GLC, GCMS and LCMS instruments of Principal Scientist, ICAR-CIFE	10 days (November 21-30, 2016)	ETL, Dept. of Agril. Chemicals, BCKV	Course Director
4.	Professional Attachment Training of Newly Recruited ARS Scientist, ICAR-CIFRI	03 months (18.05.2016 to 18.08.2016)	ETL, Dept. of Agril. Chemicals, BCKV	Course Director
5.	Professional Attachment Training of Newly Recruited ARS Scientist, ICAR-CIFRI	03 months (03.12.2015 to 02.03.2016)	ETL, Dept. of Agril. Chemicals, BCKV	Course Director

### B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Training on Pesticide Formulation Technology	4 days (January 15-18, 2013)	Institute of Pesticide Formulation Technology, Gurgaon	Team Leader of Trainees
2.	e-Learning Course on Food Safety Management and Food Traceability (Phase 3) [ISO 22005: 2007 (Traceability in the feed and food chain)]	04 days (20-23 July, 2010)	Asian Productivity Organization, New Delhi, India	Trainee
3.	ISO 17020: 1998 for Laboratories and Inspection Bodies	06 days (03-08 September, 2007)	APEDA, New Delhi	Trainee
4.	Refresher Course on Analytical Instruments and Their Applications	03 weeks (30.01.2006 to 18.02.2006)	Dept. of Instrumentation Science & Academic Staff College, Jadavpur University	Trainee
5.	ICAR sponsored Winter School on “Advance strategies for the mitigation of heavy metals and arsenic pollution in agricultural production systems”	01 day (23 <sup>rd</sup> December, 2005)	Farmers’ Training Centre, BCKV, Kalyani	Resource Person
6.	ISO 17025: Laboratory Quality System, Management and Internal Audit	04 days (21-24 March, 2005)	National Institute of Training for Standardization, BIS, Noida	Trainee
7.	Winter School on: Advanced Course on Human Resources Management in Agriculture	03 weeks (18.09.2002 to 08.10.2002)	ICAR: NAARM, Hyderabad	Trainee

### 19. SEMINAR/ SYMPOSIUM/ WORKSHOP, etc.

#### A. ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Workshop on “Promotion of Botanicals for Integrated Pest Management” & Inauguration of Agro-Chemical Formulation Laboratory, Dept. of Agricultural Chemicals	One day (July 04, 2012)	D. R. Sarkar Hall, BCKV, Mohanpur	Organizing Secretary
2.	Workshop under Public-Private Partnership on “A golden march towards food security and sustainability,” Department of Agril. Chemicals (in collaboration with Dhanuka Agritech Ltd.)	One day (November 29, 2010)	Farmers’ Training Center, BCKV, Kalyani	Organizing Secretary

### B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Brain Storming Session on Agrochemicals and Seed companies Toward a Sustainable Future for greater Food Production and Nutrition Security under Changed Climate, Organised by Directorate of Research, BCKV	January 06, 2024	FACC, BCKV, Kalyani	Speaker
2.	Role of Crop Protection Chemicals in Sustainable Agriculture; organized by Agro Chem Federation of India (ACFI)	June 28, 2022	Hotel Taj Bengal, Kolkata	Expert Participant
3.	International Web Conference on Ensuring Food Safety, Security and Sustainability through Crop Protection	August 5-6, 2020	BAU, Sabour, Bhagalpur	Delivered Keynote-cum-Invited Address
4.	Virtual Conference on Drones Application Technology in Spraying for Crop Protection; Organised by Crop Life India and FICCI	July 29, 2020	Online	Expert Participant
5.	National Seminar on Agro-Chemical Inputs And It's Extension Approaches Towards Food and Bio-Security: Prospects & Challenges (AEFS-2019)	November 15-16, 2019	SAMETI, Ramakrishna Mission Ashrama, Narendrapur	Chaired a Technical Session
6.	Workshop for Restructuring of the Existing ICAR PG/Ph. D. Syllabi and Curricula organized by the Broad Subject Matter Area (BSMA) Committee, ICAR	12-13 February, 2019	Divn. of Agril. Chemicals, ICAR-IARI, New Delhi	Expert Member
7.	National Symposium on Plant Health Management for Food	December 08-09, 2016	FACC (Lake Hall), BCKV,	Invited Speaker

	Security and Food Safety, organized by Indian Phytopathological Society (East Zone)		Kalyani	
8.	National Seminar cum Workshop on Safe Reuse of Municipal Wastewater: Potentials and Prospects, jointly Organized by Kalyani Shine India, William Carey University and Kalyani University	September 09-10, 2016	Netaji Subhas Regional Institute of Cooperative Management, Kalyani, Nadia	Invited Speaker
9.	Launching Workshop of the project under National Mission for Clean Ganga (NMCG)	July 08, 2016	ICAR: CIFRI, Barrackpore, Kolkata	Guest of Honor
10.	Workshop for preparation of roadmap for development of agriculture and allied sectors in Lower Gangetic Plains Region, organized by ICAR-CIFRI, Barrackpore and ICAR-ATARI, Kolkata	October 31, 2015	ICAR-CIFRI, Barrackpore, Kolkata	Expert Participant
11.	1 <sup>st</sup> National Bioresources and Sustainable Development Summit-2015, Organized by Institute of Bioresources and Sustainable Development (IBSD)	February 19 - 20, 2015	Takyelpat, Imphal, Manipur	Poster presentation
12.	XXI <sup>st</sup> Annual Workshop of AINP on Pesticide Residues	June 20, 2013	TNAU, Coimbatore	Participating Scientist
13.	International Workshop on “Understanding Water-Energy-GHG nexus for future water and food security” organized by the Indian Society of Water Management and The University of Melbourne, Australia	September 27-28, 2012	NASC Complex, New Delhi	Oral Presentation
14.	The Brainstorming Workshop on Preparation of National Children’s Science Congress Activity Guide 2012-13	May 02-04, 2012	Tejpur University, Tejpur, Assam	Resource Person
15.	3 <sup>rd</sup> International Conference: BIOCICON organized by St Xavier’s College & Tamil Nadu Agricultural University	November 28-30, 2011	Palamkottai, Tamil Nadu	Oral Presentation
16.	International Symposium on System Intensification Towards Food & Environmental Security organised by Crop & Weed Science Society	February 24-27, 2011	BCKV, Kalyani	Oral Presentation
17.	CWSS Annual Conference: 2010 and Workshop on Indigenous Technological	June 11, 2010	BCKV, Kalyani	Oral Presentation

	Knowledge in Modern Agriculture, organised by Crop & Weed Science Society			
18.	Academic Review Workshop on M. Tech. programme of IIT, Roorkee in “Conservation of Rivers and Lakes”	January 15, 2010	India Habitat Center, New Delhi	Resource Person
19.	Symposium on “Accelerating Agribusiness: an initiative of Confederation of Indian Industry (CII)	February 11, 2009	Kolkata	Resource Person
20.	40 & 41 <sup>st</sup> Joint Annual Convention and Symposium on “Water & Fertilizer Management: Present Day Chemical Agriculture in India,” organised by Indian Society of Agricultural Chemists	December 12-13, 2008	Birsa Agricultural University, Ranchi	Invited Lecture
21.	Activities of Crop & Weed Science Society (2004-2008) & West Bengal Chapter of Indian Society of Weed Science (2002-2004) organized by Crop & Weed Science Society	May 21-22, 2008	FTC (Lake Hall), BCKV, Kalyani	Oral Presentation
22.	National Workshop on “HPLC and Fluorescence Microscopy.	December 06-08, 2007	Chittaranjan National Cancer Institute, Kolkata	Invited Lecture
23.	International Conference on “The majestic river Ganga – Health, Integrity & Management” organized by Dept. of Zoology, Patna University and Aquatic Ecosystem Health and Management Society, Canada	November 13-15, 2006	Patna University, Patna	Oral Presentation
24.	National Seminar on “Coastal Resources & their Sustainable Management: Issues and Strategies” organized by BCKV	November 24-27, 2005	FTC (Lake Hall), BCKV, Kalyani	Oral Presentation
25.	BCPC International Congress – Crop Science & Technology	October 31 to November 02, 2005	Glasgow, Scotland, UK	Poster Presentation
26.	Fourteenth Annual Workshop on All India Network Project on Pesticide Residues	June 14-15, 2005	Solan, Himachal Pradesh	Participating Scientist
27.	International Conference on “Soil, Water and Environmental Quality - Issues and Strategies” organized by Indian Society of Soil Science	28 <sup>th</sup> January – 1 <sup>st</sup> February, 2005	IARI, New Delhi	Poster Presentation
28.	7 <sup>th</sup> International Symposium on Water, Arsenic and Environment Crisis in Bengal Basin: Issues, Impact and	December 19-20, 2004	Chameli House, Dhaka, Bangladesh	Oral Presentation



	Strategies, organized by International Institute of Bengal Basin			
29.	Annual Convention and Symposium on “Pesticide Chemistry Agriculture Interface: New Frontiers” organized by Indian Society of Agricultural Chemists	November 27-28, 2004	Lake Hall, BCKV, Kalyani	Organising Member & Participant
30.	International Conference on Ecorestoration, organized by Indian Council of Forestry Research & Education and National Institute of Ecology	14-21 October, 2003	ICFRE, Dehradun	Oral Presentation
31.	Tenth Annual Workshop on All India Co-Ordinated Research Project on Pesticide Residues	February 07-08, 2003	Bawal, Haryana	Participating Scientist
32.	International Conference on Pesticides, Environment, and Food Security, organized by Society of Pesticide Science (India)	November 19-23, 2001	IARI, New Delhi	Poster Presentation
33.	Ninth Annual Workshop on All India Co-Ordinated Research Project on Pesticide Residues	January 11-13, 2001	College of Agriculture, Vellyani, Trivandrum	Participating Scientist
34.	Eighth Annual Workshop on All India Co-Ordinated Research Project on Pesticide Residues	January 05-06, 1999	Lake Hall, BCKV, Kalyani	Organising Member & Participating Scientist
35.	National Symposium on “Natural Products and Drug Developments” organized by Birthday Celebration Committee of Prof. (Mrs.) Asima Chatterjee, Dept. of Chemistry, University of Calcutta	September 23-25, 1997	Science City, Calcutta	Participant
36.	West Bengal State Science Congress, 4 <sup>th</sup> Session organized by W.B. State Council of Science & Technology	February 28 to March 02, 1997	BCKV, Mohanpur	Oral Presentation

## 20. PATENTS/ HONOURS/ AWARDS/ RECOGNITION (Bulleted list):

- **Granted Indian Patent** on “Nanoemulsion Pesticidal Formulation of *Pongamia pinnata*,” Inventors: A. Purkait, DK Hazra and RK Kole, Patent No. **526504**, March 14, 2024
- **Fellow of the Society of Pesticide Science, India (FSPSI)**, ICAR: IARI, New Delhi, 2018.
- **Fellow of Inland Fisheries Society of India (FIFSI)**, Barrackpore, Kolkata, 2007.

- **Guest of Honor** in the Launching Workshop of a project under National Mission for Clean Ganga (NMCG) at ICAR: CIFRI, Barrackpore, Kolkata, July 08, 2016.
- **Chaired a Technical Session** in the National Seminar on Agro-Chemical Inputs and Its Extension Approaches Towards Food and Bio-Security: Prospects & Challenges (AEFS-2019), SAMETI, Ramakrishna Mission Ashrama, Narendrapur, November 15-16, 2019.
- **Acted as External Jury** for screening of applications for IFSI Gold Medals Awards at ICAR: CIFRI, Barrackpore, Kolkata, 05 February, 2020.
- **Member of the Sub-committee on “Basic Sciences” constituted by ASRB/ICAR** for revision of ARS syllabus based on New BSMA recommendation and revised qualification, February, 2022.
- **Member of Pesticide Residues Sectional Committee**, Food & Drugs (FAD-I), Bureau of Indian Standards, New Delhi: 2009; 2010
- **Awarded the Best Poster presented** in the *International Conference on “Soil, Water and Environmental Quality - Issues and Strategies”* organized by Indian Society of Soil Science, IARI, New Delhi, 28<sup>th</sup> January – 1<sup>st</sup> February, 2005.
- **Awarded Chinese Govt. Scholarship, Govt. of PR China** (1999-2000)
- **Awarded Senior Research Associateship (Pool Officer) under Scientists’ Pool Scheme, CSIR** (1996–1997)
- **Awarded Research Associateship**, Central Inland Capture Fisheries Research Institute, ICAR (1994-1996)
- **Awarded Research Associateship**, Jadavpur University (1993-1994)
- **Awarded Research Associateship**, Indian Agricultural Research Institute (1993)
- **Awarded Senior Research Fellowship**, CSIR (1991-1993)
- **Awarded Senior Research Fellowship**, BCKV (1988-1991)
- **Awarded University Merit Scholarship**, BCKV (1985-87)
- **Awarded National Merit Scholarship**, Govt. of India (1978-1984)

**21. INTERNATIONAL COLLABORATIONS/ INVOLVEMENT, IF ANY (Bulleted list):**

- **Zhejiang University, Hangzhou, P.R. China:** Conducted Higher Study and awarded Advance Diploma in Plant Protection specializing in Pesticide Toxicology in 1999 -2000.
- **British Crop Protection Council (BCPC):** Attended BCPC International Congress – Crop Science & Technology, Glasgow, Scotland, UK, 2005

- **International Institute of Bengal Basin:** Attended 7<sup>th</sup> International Symposium on Water, Arsenic and Environment Crisis in Bengal Basin: Issues, Impact and Strategies, Chameli House, Dhaka, Bangladesh, 2004.
- **American Chemical Society:** Awarded certificate of appreciation for valuable contribution and dedicated service in peer review of manuscripts, 2011.
- **Reviewer of International Scientific Journals,** viz, Journal of Agril. & Food Chemistry; Food Chemistry; Science of the Total Environment; Food Science & Technology; Pest Management Science; Chemosphere; Journal of Environmental Management; Journal of Hazardous Materials; etc.

## 22. PUBLICATIONS

### A. BOOKS

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### B. BOOK CHAPTERS

1. R Mondal and **RK Kole** (2021). “Monitoring and Evaluation of Pesticide Residues in Aquatic Systems” (Chapter 3). In: Inamuddin et al. (eds.), *Sustainable Agriculture Reviews 47: Pesticide Occurrence, Analysis and Remediation*, Vol. 1, Biological Systems, Springer Nature Switzerland AG 2021, [https://doi.org/10.1007/978-3-030-54712-7\\_3](https://doi.org/10.1007/978-3-030-54712-7_3).
2. E. Kunhikrishnan, **R. K. Kole**, R. N. Ray, D. K. Pandey and M. K. Patowary (2012). “Energy and Environment” (Working group of the Sub-Theme-IV). In: *Activity Guide 2012-13 of the 20<sup>th</sup> National Children's Science Congress 2012* on the Focal Theme - “Energy: Explore, Harness and Conserve.” Published by National Council for Science & Technology Communication (NCSTC) Network, Dept. of Science and Technology, Govt. of India, New Delhi, pp. 65-74.
3. **R. K. Kole**, P. Mukherjee and M. Sengupta (2006). “Aquatic environment of inland natural open waters: threats and mitigations.” In: *River Fisheries in India – Issues and Current Status*, Eds. K. K. Vass, K. Mitra, V. R. Suresh, P. K. Katiha and N. P. Shrivastava. Inland Fisheries Society of India, Barrackpore, Kolkata, pp. 250-265.
4. N. Adityachaudhury and **R. K. Kole** (1999). “Oil Extraction: Scope for development of suitable small scale agro-based industries in the rural sector of West Bengal for production of some valuable essential oils from selected flowers.” *Hand Book on Entrepreneurial Chemical and Agro Technological Vision*, National Workshop on Entrepreneurship Development Based on Chemical and Agro Technologies, Eastern India Horticulture & Biotechnology Centre, Bahau and Dept. of Chemistry, Jadavpur University, February 23-28, pp. 29-33.

### C. RESEARCH PAPERS (Best 10 out of 85)

1. S Ghosh, D. Rana, P Sarkar, S Roy, A Kumar, J Naskar and **RK Kole** (2022). Ecological safety with multifunctional applications of biogenic mono and bimetallic (Au–Ag) alloy nanoparticles. *Chemosphere*, 288 (2), 132585, <https://doi.org/10.1016/j.chemosphere.2021.132585>. [NAAS: 14.80]
2. A Mukherjee, R Mondal, S Biswas, S Saha, S Ghosh and **RK Kole** (2021). Dissipation behaviour and risk assessment of fipronil and its metabolites in paddy ecosystem using GC-ECD and confirmation by GC-MS/MS. *Heliyon* 7, e06889, <https://doi.org/10.1016/j.heliyon.2021.e06889>. [NAAS: 10.00]
3. S Ghosh, S Roy, J Naskar and **RK Kole** (2020). Process optimization for biosynthesis of mono and bimetallic alloy nanoparticle catalysts for degradation of dyes in individual and ternary mixture. *Scientific Reports*, 10:277, 1-14. [doi.org/10.1038/s41598-019-57097-0](https://doi.org/10.1038/s41598-019-57097-0). [NAAS: 10.60]
4. S. Biswas, R. Mondal, A. Mukherjee, M. Sarkar and **RK Kole** (2019). Simultaneous determination and risk assessment of fipronil and its metabolites in sugarcane, using GC-ECD and confirmation by GC-MS/MS. *Food Chemistry*, 272, 559-567. [NAAS: 14.80]
5. R. Mondal, A. Mukherjee, S. Biswas and **RK Kole** (2018). GC-MS/MS determination and ecological risk assessment of pesticides in aquatic system: A case study in Hooghly River basin in West Bengal, India. *Chemosphere*, 206, 217-230. [NAAS: 14.80]
6. S Saha, A Mukherjee, S Biswas, D Choudhury, J Saha, S Pal, M Sarkar and **RK Kole** (2018). Formulation and chemical characterization of Clerodendrum infortunatum leaf extract in relation to antifungal activity. *Heliyon*, 4, e01047. [doi: 10.1016/j.heliyon.2018.e01047](https://doi.org/10.1016/j.heliyon.2018.e01047). [NAAS: 10.00]
7. D. Sardar and **RK Kole** (2005). "Metabolism of chlorpyrifos in relation to its effect on the availability of some plant nutrients in soil." *Chemosphere*, 61(9), 1273-1280. [NAAS: 14.80]
8. M. A. Sarkar, S. Roy, **RK Kole** and A. Chowdhury (2001). "Persistence and metabolism of imidacloprid in different soils of West Bengal". *Pest Management Science*, 57 (7), 598 – 602. [NAAS: 10.10]
9. S. Samanta, **RK Kole** and A. Chowdhury (1999). "Photodegradation of metsulfuron methyl in aqueous solution". *Chemosphere*, 39 (6), 873-879. [NAAS: 14.80]
10. **RK Kole**, C. Satpathi, A. Chowdhury, M. R. Ghosh and N. Adityachaudhury (1992). Isolation of amorpholone, a potent rotenoid insecticide from *Tephrosia candida*. *Journal of Agricultural and Food Chemistry*, 40 (7), 1208-1210. [NAAS: 12.10]



03.07.2024

Signature with Date