



# Dr Naba Kumar Mondal

*Professor & Head*

*Department of Environmental Science*

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<b>Academic qualifications</b>	M. Sc, M. Ed, Ph. D
<b>Date of Birth</b>	28.01.1974
<b>Teaching Experience</b>	24 years
<b>Research Experience</b>	20 years
<b>Ph.D. awarded</b>	2008 from University of Burdwan

**Ph. D. Topic** “Development of agrotechnology in old alluvial soil zone of Burdwan District, West Bengal for sustainable soil health and crop yield of Mungbean (*Vigna radiate* (L) Wilczek)”

**Research area** Water pollution and remediation  
Nano synthesis and application  
Indoor air pollution

## List of Journals where acts as reviewer

1. Chemosphere (Elsevier)
2. African journal of biotechnology
3. African Journal of Agricultural Research
4. Chemical Engineering Journal (Elsevier)
5. Research journal of chemistry and Environment
6. International Journal of Agricultural Sciences
7. Journal of Agricultural and Biological Science
8. Journal of hazardous materials (Elsevier)
9. Science of the Total Environment (Elsevier)
10. Ecological Indicators (Elsevier)
11. Journal of Applied water Science (Springer)
12. Journal of Water Process Engineering (Elsevier)
13. Journal of Environmental Monitoring and Assessment (Springer)
14. Journal of Rice Science (Elsevier)
15. Environmental Earth Science (Springer)

## Present research scholars

### 1. Amita Hajra

M.Sc, Zoology (The university of Burdwan)  
Ph.D student (Science 2013)  
Research area: Nanotechnology  
E-mail: [amitahajrasinha@gmail.com](mailto:amitahajrasinha@gmail.com)  
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### 2. Kamalesh Sen

M.Sc, Environmental Science (The University of Burdwan)  
Ph.D student (Science 2015)  
Research area: Adsorption Chemistry  
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### 3. Arghadip Mondal

M.Sc, Zoology (Sidho Kanho Birsha University)  
Ph.D student (Science 2017)  
Research area: Nanotechnology & Vector control  
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### 4. Priyanka Debnath

M.Sc, Environmental Science (The University of Burdwan)  
Ph.D student (science 2017)  
Research area: Nanotechnology  
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### 5. Debojyoti Mishra

M.Sc, Environmental Science (The University of Burdwan)  
DAE-BRNS Project fellow  
Area of Project: Uranium analysis from water sample  
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Mob: 8001801081

## Research projects

<b>Title</b>	<b>Agency (Funding, Commissioning and/or Collaborating)</b>	<b>Period</b>	<b>Grant(s)/ Amount mobilized (so far) in Rs. (Lakhs)</b>	<b>Whether Principal Investigator/ Co-investigator or Consultant/Quality evaluator</b>
Interference of vehicle noise in teaching-learning process and development of strategies for abatement of classroom noise	Indian Council of Social Science Research (ICSSR)	2019-2021	9,00,000	Principal Investigator
Spatial distribution of uranium in the ground water of four districts of West Bengal	Board of Research in Nuclear Sciences (BRNS)	2017-2019	27,51,800	Principal Investigator
Green synthesis of heavy metal nanoparticles and its effective utilization towards eradication of mosquito	Department of Science and Technology, West Bengal	2017-2020	12,20,200/-	Principal Investigator
Indoor air pollution and associated disease from unprocessed biofuels and possible remedial measures in rural villages of West Bengal, India	University Grant Commission	2013-2016	11,90,800/-	Principal Investigator
Development of a model for effective integration of environmental education in technical and general education	ICSSR	2012-2014	7 Lakhs	Principal Investigator
Isolation, Identification and characterization of arsenic resistant bacteria and their vertical distribution in soil: Possible role in bioremediation	DST-Inspire project	2012-2017	12 Lakhs	Principal Investigator
Municipal waste management through vermicomposting and its impact on growth, physiology, yield, soil health, soil biodiversity and carbon conservation under paddy and mustard cultivation in old alluvial soil zone of Burdwan district, West Bengal.	University Grant Commission	2011-2014	9 Lakhs	Co-Investigator
Evaluation of fluoride toxicity in agro ecosystem of Birbhum district, West Bengal	DST-Inspire project	2011-2017	12 Lakhs	Co-Investigator
Development and application of innovative Technology towards environmental education for backward students (Rural and Urban) in upper primary classes of West Bengal.	University Grant Commission	2009 -2011	5.5 Lakh	Principal Investigator
Development of agrotechnology in old alluvial soil zone of Burdwan, West Bengal	University Grant Commission	2006-2008	85,000/-	Principal Investigator

**Ph.D awarded (up to 2018):**

<b>Sl. No.</b>	<b>Name of the research scholar</b>	<b>Title of the thesis</b>	<b>Awarded/Submitted/Registered/On going</b>
1.	Dr Moumita Sinha	“Impact of effluents of Durgapur thermal power station Burdwan on adjacent Agroecosystem”	<b>Awarded 2013</b>
2.	Dr Ria Bhaumik	“Development of low cost technology for the removal of fluoride from drinking water”	<b>Awarded 2014</b>
3.	Dr Biswajit Das	“comparative studies on removal efficiency of heavy metal (chromium, lead and copper) from aqueous solution through naturally available adsorbents”	<b>Awarded 2014</b>
4.	Dr Kartick Chandra Pal	“Fluoride contamination in soil and vegetation in Birbhum district, West Bengal, India”	<b>Awarded 2014</b>
5.	Dr Palas Roy	“Removal of arsenic (III) and arsenic (V) on chemically modified low-cost adsorbent: batch and column operations”	<b>Awarded 2015</b>
6.	Dr Anindita Maitra	“Assesment of fluoride toxicity through field and laboratory studies vis- a -vis its impact on growth, metabolism and yield on two different crop species (Brassica sp.; Oryza sativa MTU)”	<b>Awarded 2015</b>
7.	Dr Anjan Dutta	“Sustainable potato cultivation by utilizing rice mill by products”	<b>Awarded 2016</b>
8.	Dr Soumya Chatteraj	“In sight in to adsorption equilibrium, kinetics and thermodynamics of carbaryl insecticide from aqueous solution by naturally available adsorbetsns”	<b>Awarded 2016</b>
9.	Dr Bikash Sadhukhan	“Biosorptive removal of methylene blue from aqueous solution using naturally available low cost adsorbent by using suitable models ”	<b>Awarded 2017</b>
10.	Dr Uttiya Dey	“An innovative approach towards bioremediation with isolation and molecular characterization of arsenic resistant bacteria from arsenic contaminated areas of Purbasthali, Burdwan, West Bengal”	<b>Awarded 2017</b>
11.	Dr Chittaranjan Das	“Nutrient dynamics study of few selected tree species of Ramna Forest Burdwan West Bengal”	<b>Awarded 2018</b>
12.	Dr Tapas Kumar Roy	“Decolourisation of congored dye by low cost adsorbents”	<b>Awarded 2018</b>
13.	Dr Deep Chakraborty	“Indoor air pollution and associated health effects from unprocessed biomass fuels used in rural West Bengal”	<b>Awarded 2018</b>

### Supervised thirty (35) M. Sc. dissertation up to 2019

1.	Sanhita Ghosh	2010-12	Study of soil enzyme during pre- monsoon and post-monsoon period in arsenic affected areas of Burdwan district, West Bengal
2.	Aniruddha Banerjee	2011-13	Heavy metals (arsenic, cadmium and lead) phytoremediation by aquatic floating macrophytes: growth physiology, biochemistry, kinetics and isotherm study
3.	Rupa Paul	2011-13	Assessment of poultry litter and its contamination pattern in chicken, field soil and plants
4.	Sanjukta Ghosh	2011-13	Modeling of photo-fenton degradation of methylene blue and congo red by response surface methodology
5.	Sapinaj Khatun	2011-13	Fluoride phytoremediation by floating macrophytes: growth, biochemical, kinetics and isotherm study
6.	Snehali Dutta	2011-13	Noble and simple approach for synthesis of heavy metal nano particle and their application in different fields
7.	Soumi Roy	2011-13	Potentiality of gastropod shell dust for removal of phenol
8.	Sumona Kar	2011-13	Removal of Congo red dye by easily available low cost adsorbents: equilibrium, kinetic and thermodynamic studies
9.	Jinat Aktar	2012-14	Synthesis of nano zero valent iron (nZVI) from potato-based starch and borohydrate and its application in different field
10.	Wasim Akram Shaikh	2012-14	Experimental and Kinetic modeling of As (III) and As (V) adsorption on treated pond sediment using synthetic water
11.	Soumya Bikas Ghosh	2012-14	Effect of Arsenic and Manganese Exposure on Intellectual Function of Children in Arsenic Stress Area of Purbasthali, Burdwan, West Bengal
12.	Piya Nayek	2012-14	Chromium Bioaccumulation: Comparison of the capacity of two floating aquatic macrophytes
13.	Deblina Chakraborty	2013-15	Contamination of arsenic in vegetables and its influence on soil enzyme in arsenic affected area, Purbasthali, Burdwan, West bengal
14.	Moumita Bairagi	2013-15	Compartmentalization pattern of arsenic in rice plant and its influence on soil enzyme in arsenic affected area, Purbasthali, burdwan, West Bengal
15.	Priyanka Debnath	2014-16	Biogenic approach for the synthesis and characterization of zinc oxide nanoparticles and its effective utilization towards removal of dyes from aqueous solution
16.	Samarpita Chakraborty	2014-16	Synthesis and characterization of grapheme oxide nano-sheets and its application for the removal of

			Cr(VI) from aqueous solution and compare the adsorption capacity with egg shell and fish scale dust
17.	Jesmin sultana	2014-16	Biosorptions of anionic dye (methyl orange) from aqueous solution using three different form of rice husk
18.	Suparna De	2014-16	Green synthesis of cadmium and copper nanoparticles and their role towards antimicrobial enhancers
19.	Debojyoti Misra	2015-17	Effect of wireless network radiation on environment with special emphasis on human plants and birds health in few selected areas of Burdwan and Hooghly districts
20.	Ranu Barik	2015-17	Flower mediated zinc oxide nanoparticle synthesis and its efficacy towards degradation of insecticide (carbaryl)
21.	Manjira Pal	2015-17	Optimization of hexavalent chromium phytoremediation by the three aquatic macrophytes; a modelling approach
22.	Soumita Parikhal	2015-17	Effect of nanosilver on seed germination, seedling growth and biochemical attributes of wildy cultivated crops ( <i>Brassica</i> sp. and <i>Vigna mungo</i> ) and vegetables ( <i>Pissumsativam</i> and <i>Abelmoschuseulentus</i> )
23.	Kumari Guddi	2015-17	Phytotoxicity of silver nanoparticles to the three aquatic floating macrophyte ( <i>Lemna minor</i> , <i>Eichhornia</i> sp. and <i>Pistia</i> sp.)
24.	Puja Sain	2015-17	Phytotoxicity of gold nanoparticle on rice ( <i>Oryza sativa</i> L) seedling with special emphasis on morphological and biochemical analysis
25.	Richa Das	2015-17	Biosynthesis of silver nanoparticles by fungi isolated from soil and its antifungal activity against some selected plants fungi
26.	Pratiti Roy	2016-18	Efficacy of egg shell(poultry, domestic hen and duck) and sea shell dust towards removal of fluoride from both synthetic and field sample
27.	Subhadeep Mitra	2016-18	Synthesis and characterization of silica nanoparticles from rice husk ash and its application towards germination, morphophysiological, biochemical and anatomical studies of rice ( <i>Oryza sativa</i> l.) and ladies finger ( <i>abelmoschusesculentus</i> )”
28.	Animesh Mondal	2016-18	Indoor air pollution generated from unprocessed solid biomass fuel and health status among the rural women of few selected villages of Hooghly and PaschimMedinipur districts of West Bengal
29.	Bilkish Sultana	2016-18	Influence of synthetic dye at albino rat and their subsequent removal by specific adsorbent from aqueous solution

30.	Soma Chowdhury	2016-18	Single pot synthesis of Silver and Gold nanoparticles using different parts (Leaf, Flower and Bark) of <i>Moringaoleifera</i> and their efficacy as anti-fungal effect against <i>Aspergillus</i> sp.
31.	Priyasmita Bhattacharjee	2017-19	Efficacy of homeopathic medicine (argentum metallicum), silver salt and silver nonaoparticles on seed germination, growth attributes, biochemical analysis and anatomical studies of rice ( <i>Oryza sativa</i> l.), mungbean ( <i>Vigna mungo</i> l.) and cowpea ( <i>Vigna unguiculata</i> l.).
32.	Sudipta Palui	2017-19	Potentiality of keratinous substances (animal hair) and synthetic wool towards removal of hexavalent chromium from aqueous solution.
33.	Supriya Paul	2017-19	Synthesis of graphene oxide from graphite, waste dry cell and composite of graphene oxide with silver nanoparticles and their effective utilization towards removal of phenol from aqueous solution.
34.	Nilufar karim	2017-19	Synthesis of copper nanoparticles from waste electric wire and check the toxicity of copper nanoparticles with two varieties of rice ( <i>Oryza sativa</i> L.) with reference to growth physiology, biochemicals and anatomical attributes in laboratory condition
35.	Saptarshi Ghosh	2017-19	Efficacy of silver nanoparticles, nano-titanium oxide and their composite under UV-B exposure towards removal of azo and non-azo dye from aqueous solution and to evaluate the suitability of spent dye solution with respect to growth and development of peas ( <i>Pisum sativum</i> L.)

**Publications: (185) [All publications are available at Google scholar]**

**Selected publications:**

1. SB Ghosh, **NK Mondal** (2019) Application of Taguchi method for optimizing the process parameters for the removal of fluoride by Al-impregnated Eucalyptus bark ash; *Environmental Nanotechnology, Monitoring & Management* 11, 100206

2. **NK Mondal**, S Basu, B Das (2019) Decontamination and optimization study of hexavalent chromium on modified chicken feather using response surface methodology; *Applied Water Science*; 9 (3), 50

3. **NK Mondal**, S Basu (2019) Potentiality of waste human hair towards removal of chromium (VI) from solution: kinetic and equilibrium studies; *Applied Water Science*; 9 (3), 49

4. **NK Mondal**, P Ghosh, K Sen, A Mondal, P Debnath (2019) Efficacy of onion peel towards removal of nitrate from aqueous solution and field samples. *Environmental Nanotechnology, Monitoring & Management*, 100222
5. P Debnath, A Mondal, A Hajra, C Das, **NK Mondal** (2018) Cytogenetic effects of silver and gold nanoparticles on *Allium cepa* roots, *Journal of Genetic Engineering and Biotechnology* 16 (2), 519-526
6. D Chakraborty, **NK Mondal** (2018) Hypertensive and toxicological health risk among women exposed to biomass smoke: A rural Indian scenario; *Ecotoxicology and Environmental Safety*;161, 706-714
7. **NK Mondal**, S Kar (2018) Potentiality of banana peel for removal of Congo red dye from aqueous solution: isotherm, kinetics and thermodynamics studies, *Applied Water Science*, 8 (6), 157
8. S Chatteraj, **NK Mondal**, K Sen (2018) Removal of carbaryl insecticide from aqueous solution using eggshell powder: a modeling study; *Applied Water Science*, 8 (6), 163
9. **NK Mondal**, A Samanta, S Chakraborty, WA Shaikh (2018) Enhanced chromium (VI) removal using banana peel dust: isotherms, kinetics and thermodynamics study; *Sustainable Water Resources Management*, 4 (3), 489-497
10. **NK Mondal**, A Roy(2018) Potentiality of a fruit peel (banana peel) toward abatement of fluoride from synthetic and underground water samples collected from fluoride affected villages of Birbhum district; *Applied Water Science*, 8 (3), 90
11. D Chakraborty, **NK Mondal** (2018) Assessment of health risk of children from traditional biomass burning in rural households; *Exposure and Health*, 10 (1), 15-26
12. **NK Mondal** (2017) Effect of fluoride on photosynthesis, growth and accumulation of four widely cultivated rice (*Oryza sativa* L.) varieties in India; *Ecotoxicology and environmental safety*; 144, 36-44
13. S Medda, **NK Mondal** (2017) Chromium toxicity and ultrastructural deformation of *Cicer arietinum* with special reference of root elongation and coleoptile growth; *Annals of Agrarian Science*; 15 (3), 396-401
14. R Bhaumik, **NK Mondal**, S Chatteraj. (2017). An optimization study for defluoridation from synthetic fluoride solution using scale of Indian major carp *Catla* (*Catlacatla*): An Unconventional Biosorbent; *Journal of Fluorine Chemistry*;195, 57-69
15. D Chakraborty, **NK Mondal** (2017). Assessment of Health Risk of Children from Traditional Biomass Burning in Rural Households; *Exposure and Health*; 1-12
16. K Sen, **NK Mondal**, S Chatteraj, JK Datta. (2017). Statistical optimization study of adsorption parameters for the removal of glyphosate on forest soil using the response surface methodology; *Environmental Earth Sciences*; 76 (1), 22
17. **NK Mondal**. (2017). Effect of fluoride on photosynthesis, growth and accumulation of four widely cultivated rice (*Oryza sativa* L.) varieties in India. *Ecotoxicology and environmental safety*, 144, 36-44.



18. Shreya Medda, **NK Mondal**. (2017). Chromium toxicity and ultrastructural deformation of *Cicerarietinum* with special reference of root elongation and coleoptile growth. *Annals of Agrarian Science*, 15 (3), 396-401
19. A Hajra, **NK Mondal**. (2017). Effects of ZnO and TiO<sub>2</sub> nanoparticles on germination, biochemical and morphoanatomical attributes of *Cicer arietinum* L. *Energy, Ecology and Environment*. 2(4), 277-288
20. TK Roy, **NK Mondal**. (2017). Biosorption of Congo Red from aqueous solution onto burned root of *Eichhornia crassipes* biomass. *Applied Water Science*. 7(4),1841-1854
21. **NK Mondal**, A Samanta, S Dutta, S Chatteraj (2017). Optimization of Cr (VI) biosorption onto *Aspergillusniger* using 3-level Box-Behnken design: Equilibrium, kinetic, thermodynamic and regeneration studies. *Journal of Genetic Engineering and Biotechnology*. 15(1),151-160
22. P Roy, U Dey, S Chatteraj, D Mukhopadhyay, **NK Mondal**. (2017). Modeling of the adsorptive removal of arsenic (III) using plant biomass: a bioremedial approach. *Applied Water Science*. 7(3),1307-1321
23. T Mondal, JK Datta, **NK Mondal**. (2017). Chemical fertilizer in conjunction with biofertilizer and vermicompost induced changes in morpho-physiological and bio-chemical traits of mustard crop, *Journal of the Saudi Society of Agricultural Sciences*. 16(2),135-144
24. U Dey, S Chatterjee, **NK Mondal**. (2017) Investigation of Bioremediation of Arsenic by Bacteria Isolated from an Arsenic Contaminated Area. *Environmental Processes*, 4(1),183-199
25. **NK Mondal**. (2017). Natural Banana (*Musa acuminata*) Peel: an Unconventional Adsorbent for Removal of Fluoride from Aqueous Solution through Batch Study. *Water Conservation Science and Engineering*. 1(4), 223-232
26. K Das, U Dey, **NK Monda** (2016). Deleneation of groundwater quality in the presence of fluoride in selected villages of Simlapal block, Bankura district, West Bengal, India. 2016. *Sustainable Water Resources Management*, 2 (4), 439-451
27. C Das, **NK Mondal**. Litterfall, (2016) Decomposition and nutrient release of *Shorea robusta* and *Tectona grandis* in a sub-tropical forest of West Bengal, Eastern India. *Journal of Forestry Research*, 27(5), (1055-1065).
28. B Sadhukhan, **NK Mondal**, S Chatteraj. (2016). Optimisation using central composite design (CCD) and the desirability function for sorption of methylene blue from aqueous solution onto *Lemna major*. *Karbala International Journal of Modern Science*, 2 (3), 145-155
29. S Chatteraj, **NK Mondal**, B Sadhukhan, P Roy, TK Roy. (2016). Optimization of adsorption parameters for removal of carbaryl insecticide using neem bark dust by response surface methodology. *Water Conservation Science and Engineering*, 1 (2), 127-141
30. R Bhaumik, **NK Mondal** (2016). Optimizing adsorption of fluoride from water by modified banana peel dust using response surface modelling approach. *Applied Water Science*, 6 (2), 115-135

31. K Das, **NK Mondal**. (2016). Dental fluorosis and urinary fluoride concentration as a reflection of fluoride exposure and its impact on IQ level and BMI of children of Laxmisagar, Simlapal Block of Bankura District, WB, India. *Environmental Monitoring and Assessment*. 188(4): 1-14
32. SB Ghosh, D Chakraborty, **NK Mondal**. (2016). Effect of Arsenic and Manganese Exposure on Intellectual Function of Children in Arsenic Stress Area of Purbasthali, Burdwan, West Bengal. *Exposure and Health*, (9-1), 1–11.
33. **NK Mondal**, R Bhaumik, JK Datta. (2016). Fluoride Adsorption by Calcium Carbonate, Activated Alumina and Activated Sugarcane Ash. *Environmental Processes*, 3(1): 195-216
34. K Das, **NK Mondal**, U Dey, P Roy, KC Pal. (2016). Statistical appraisal of fluoride enrichment in areas of Malda AND South Dinajpur District, West Bengal, India; *Journal of Urban and Environmental Engineering*. 9(2): 119-126
35. **NK Mondal**, M Kundu (2016) Biosorption of Fluoride from Aqueous Solution Using Lichen and Its Ca-Pre-treated Biomass. *Water Conservation Science and Engineering*. 1(3), 143-160
36. A Hajra, **NK Mondal** (2016). Phyto fabrication of silver nanoparticles using *Elephantopus scaber* and *Azadirachta indica* leaf extract and its effect on larval and pupal mortality of *Culex quinquefasciatus*. *Asian Pacific Journal of Tropical Disease*. 6(12). 979-986
37. U Dey, **NK Mondal** (2016) Ultrastructural deformation of plant cell under heavy metal stress in Gram seedlings, 2(1) Cogent Environmental Science
38. A Hajra, S Dutta and **NK Mondal** (2016). Mosquito larvicidal activity of cadmium nanoparticles synthesized from petal extracts of marigold (*Tagetes sp.*) and rose (*Rosa sp.*) flower. *Journal of Parasitic Diseases*. 40(4). 1519-1527
39. C Das, **NK Mondal** (2016). Litterfall, decomposition and nutrient release of *Shorea robusta* and *Tectona grandis* in a sub-tropical forest of West Bengal, Eastern India. *Journal of Forestry research*. 27(5), (1055-1065)
40. K Das, U Dey, **NK Mondal** (2016). Delineation of groundwater quality in the presence of fluoride in selected villages of Simlapal block, Bankura district, West Bengal, India. *Sustainable Water Resources Management*. 2(4), 439-451
41. **NK Mondal**, Soumi Roy. (2016) Optimization study of adsorption parameters for removal of phenol on gastropod shell dust using response surface methodology. *Clean Technologies and Environmental Policy*. 18 (2), 429-447
42. **NK Mondal** (2016) Effect of sodium fluoride and sodium nitroprusside on *Cicer arietinum* and *Pisum sativum*. *Communications in Plant Sciences*. 6(1-6)
43. **NK Mondal**; K Sen; A Banerjee; JK Datta (2016) Toxicity of As(III) and As(V) on morphological traits and pigments of Gram Seed (*Cicer arietinum*) during germination and early seedling growth. *Communications in Plant Sciences*. 6(1-2), 1-6(6)

44. AmitaHajra, **Naba Kumar Mondal** (2016) Synthesis of copper nanoparticles (CuNPs) from petal extracts of marigold (*Tagetes* sp.) and sunflower (*Helianthus* sp.) and their effective use as a control tool against mosquito vectors. *Journal of Mosquito Research* 6(19)
46. Uttiya Dey, Soumendranath Chatterjee, **NK Mondal**. (2016). Isolation and characterization of arsenic-resistant bacteria and possible application in bioremediation. *Biotechnology Reports*. 10:1-7
47. S Bhattacharyya, **NK Mondal**, R Bhaumik, B Das, P Roy, JK Datta (2015) Neural network model and isotherm study for removal of phenol from aqueous solution by orange peel ash, *Applied Water Science* 5 (3), 271-282
48. JK Datta, NK Mondal, CR Das, U Dey, D Chakraborty (2015) Fluoride toxicity effects in potato plant (*solanum tuberosum* l.) grown in contaminated soils, *Octa Journal of Environmental Research* 3 (2), 136-143
- 49. NK Mondal**, C Das, JK Datta (2017) Effect of mercury on seedling growth, nodulation and ultrastructural deformation of *Vigna radiata* (L) Wilczek, *Environmental monitoring and assessment* 187 (5), 241
50. NK Mondal, U Dey, S Ghosh, JK Datta (2014) Soil enzyme activity under arsenic-stressed area of Purbasthali, West Bengal, India, *Archives of Agronomy and Soil Science* 61 (1), 73-87
51. T Mondal, JK Datta, **NK Mondal** (2014) An alternative eco-friendly approach for sustainable crop production with the use of indigenous inputs under old alluvial soil zone of Burdwan, West Bengal, India, *Archives of Agronomy and Soil Science* 61 (1), 55-72
- 52. NK Mondal**, S Roy(2014) Optimization study of adsorption parameters for removal of phenol on gastropod shell dust using response surface methodology; *Clean Techn Environ Policy*, DOI 10.1007/s10098-015-1026-6
- 53. NK Mondal**, A Roy (2014) Novel use of rice husk Carbon (A Natural Silica-Carbon Matrix) For Fluoride Removal From Aqueous Solution, *Moroccan Journal of Chemistry* 3 (1), 3-1 (2015) 8-18
54. C Das, P Aditya, JK Datta, **NK Mondal** (2014) Soil enzyme activities in dependence on tree litter and season of a social forest, Burdwan, India, *Archives of Agronomy and Soil Science* 60 (3), 405-422
55. P Roy, **NK Mondal**, K Das (2014) Modeling of the adsorptive removal of arsenic: a statistical approach; *Journal of Environmental Chemical Engineering* 2 (1), 585-597
56. KC Pal, **NK Mondal**, S Chatterjee, TS Ghosh, JK Datta (2014) Characterization of fluoride-tolerant halophilic *Bacillus flexus* NM25 (HQ875778) isolated from fluoride-affected soil in Birbhum District, West Bengal, India, *Environmental monitoring and assessment* 186 (2), 699-709
57. TK Garai, JK Datta, **NK Mondal** (2014) Evaluation of integrated nutrient management on boro rice in alluvial soil and its impacts upon growth, yield attributes, yield and soil nutrient status, *Archives of Agronomy and Soil Science* 60 (1), 1-14

58. **NK Mondal** Siddhartha Bhattacharyya ,Siddhartha Bhattacharjee (2015) A quantum backpropagation multilayer perceptron (QBMLP) for predicting iron adsorption capacity of calcareous soil from aqueous solution;, *Applied Soft Computing* 27, 299-312

59. Shreya Medda, Amita Hajra, Uttiya Dey, Paulomi Bose, **Naba Kumar Mondal**(2015) Biosynthesis of silver nanoparticles from Aloe vera leaf extract and antifungal activity against *Rhizopus* sp. and *Aspergillus* sp. *Applied Nano Science*, 5(7) , pp 875–880

60. JK Datta **NK Mondal**, D Chakraborty, P Roy, TK Roy (2015) Correlation between arsenic intoxication and cognitive ability of primary school children of West Bengal, *Asian Pacific Journal of Tropical Disease* 4 (Suppl 2), S850

61. S. Chattoraj, B Sadhukhan, **N.K. Mondal**, B. Das, P. Roy (2014) Carbaryl removal from aqueous solution by *Lemna* major biomass using response surface methodology and artificial neural network, *Journal of Environmental Chemical Engineering* 2, 1920-1928

62. CR Das, **N. K. Mondal**, U. Dey, S. Khatun, K. Das (2014) Toxic Effect of Cigarette Origin Tobacco Leaf (*Nicotiana tabacum* L.) and Cigarette Smoke Extract on Germination and Bio-Chemical Changes of Bengal Gram (*Cicer arietinum* L.), *Journal of Stress Physiology & Biochemistry* 10 (1), 135-144

63. **NK Mondal**, R Bhaumik, CR Das, P Aditya, JK Datta, A Banerjee, K Das; Assessment of indoor pollutants generated from bio and synthetic fuels in selected villages of Burdwan, West Bengal ,*Journal of Environmental Biology* 34 (5), 963

64. P Roy, **NK Mondal**, S Bhattacharya, B Das, K Das(2015) Removal of arsenic (III) and arsenic (V) on chemically modified low-cost adsorbent: batch and column operations, *Applied Water Science* 3 (1), 293-309

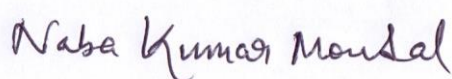
65. **NK Mondal**, K Das, U Dey, P Roy, KC Pal (2015) Dental fluorosis among children in laxmisagar village, bankura district, west bengal, india, *Fluoride* 46 (4), 230-233

66. JK Datta, **NK Mondal**, KC Pal, S Ghosh, C Das, M Dey (2015) Seasonal variation of soil enzymes in areas of fluoride stress in Birbhum District, West Bengal, India; *Taibah University*

#### Book Chapter:

1. Siddhartha Bhattacharjee, Siddhartha Bhattacharjee, **Naba Kumar Mondal**. Quantum Backpropagation Neural Network Approach for Modeling of phenol adsorption from aqueous solution by Orange peel Ash. Chapter 25.

2. Soumendranath Chatterjee and **Naba Kumar Mondal** Uttiya Dey. Effective Microbial Detoxification of Arsenic: Green Bioremediation. Nova Science Publishers, Inc. 400 Oser Avenue, Suite 1600, Hauppauge, NY 11788 USA. Nova Science Publishers, ISBN:978-1-53614-528-1 .



Date:-24/08/2019

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