



KAZI NAZRUL UNIVERSITY
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Data Obtained From Faculty-members for 12B (Academic Performance)

1. Name (Block Letter): DR. ARABINDA MALLICK
2. Department: Chemistry
3. Current Designation: Assistant Professor
4. Address for Communication (Present): Vill & Post –Sutra, Purba Bardhaman ,
W.B. 713513
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6. Contact Number: 9475123105
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8. Research Degree:

Degree	Name of the University	Date of Award
Ph. D.	Jadavpur University	05.06.2006

9. Published Papers in Journals:

Sl. No.	Article Title	Journal with page no	ISSN/IS BN No. ISSN:	Referr ed/No n Referr ed	No. of Co autho rs	Wheat her you are the main author	Date of Public ation
51	A Newly Developed Highly Selective Zn ²⁺ –AcO [–] ion-pair Sensor Through Partner Preference: Equal Efficiency under Solitary and Colonial Situation	Dalton Transiction 47, 7059-7069	Elsevier 1477-9226	Ref	03	YES (Corres pondin g Author)	2018
50	Multifunctional Logic Applications of a Single Molecule: A Molecular Photo-Switch Performing as Simple and Complex Gates, Memory Element, and a Molecular Keypad Lock	Chemistry Select 3, 5277-5282	Wiley 2365-6549	Ref	03	YES (Corres pondin g Author)	2018
49	Shipment of a Photodynamic Therapy Agent in model membrane: A Photophysical Approach	Chem. Phys. Lipids 210, 122-128	Elsevier 0009-3084	Ref	03	YES (Corres pondin g Author)	2018
48	Theory after Experiment on the sensing mechanism of a newly developed sensor molecule: Converging or diverging?	Chem. Phys. Lett. 689, 199-205	Elsevier 0009-2614	Ref	04	YES (Corres pondin g Author)	2017

47	A Strategic Design Strategy of an Opto-Chemical Security Device with Resettable and Reconfigurable Password Based Upon Dual Channel Two-in-One Chemosensor Molecule, 2017 , 7, 42811	Scientific Reports 7, 42811-42817	Nature	Ref	02	YES (Corresponding Author)	2017
46	Interaction Behavior Between Active Hydrogen Bond Donor- Acceptors as a Binding Motif for Anion Recognition: Spectroscopic Studies and Theoretical Validation	Chemistry Select 2, 2815-2821	Wiley 2365-6549	Ref	03	YES (Corresponding Author)	2017
45	A Molecular Lock with Hydrogen Sulphate as Key and Fluoride as hand: Computing Based Insights on the Functioning Mechanism	Chemistry Select 1,5547-5553	Wiley 2365-6549	Ref	04	YES (Corresponding Author)	2016
44.	Computational Study on the Ion Interaction of Ellipticine: A theoretical Approach Towards Selecting Appropriate Anions	Chem. Phys. Lett. 634, 29 – 36.	Elsevier 0009-2614	Ref	01	YES (Corresponding Author)	2015
43	Effect of Surfactant Chain Length on Photoinduced Electron Transfer on Surfactant Bilayer Protected Carbon Nanoparticles	Mat. Lett. 141, 252-254.	Elsevier 0167-577X	Ref	03	No	2015
42	Binding interaction of	RSc. Adv.	RSC	Ref	03	YES	2014

	a newly developed bisindole drug molecule with alpha cyclodextrin: face to face shielding of indole hoop	4,38206-38212				(Corresponding author)	
41	Photophysical, NMR and Density Functional Studies on the Ion Interaction of Norharmane: Proton transfer Vs Hydrogen bonding	RSc. Adv. 4, 16274 - 16280	RSC	Ref	03	YES (Corresponding author)	2014
40	pH triggered reversible photoinduced electron transfer to and from carbon nanoparticles	Chem. Comm. 50, 6890-6892	RSC 1359-7345	Ref	02	No	2014
39	Formation of extended probe-cyclodextrin nanotubular supra structures: Endogenous Surfactants Triggered on-Demand release	Chem. Phys. Lett. 580,82-87	Elsevier 0009-2614	Ref	02	YES (Corresponding author)	2013
38	FRET-based characterization of surfactant bilayer protected core-shell carbon nanoparticles: Advancement toward carbon nanotechnology	Chem. Comm. 49, 7648-7650.	RSC 1359-7345	Ref	03	No	2013
37	Photophysical and Photodynamical Study of Fluoroquinolone Drug Molecule in Bile Salt Aggregates	Photochem. Photobiol. 88,1248-1255	APS 1751-1097	Ref	02	No	2012

36	A Newly Developed Highly Selective Ratiometric Fluoride ion Sensor: Photophysical, NMR and Density Functional Studies	Analyst 137, 1247-1251	RSC 0003-2654	Ref	03	YES (Corresponding author)	2011
35	Norharmane: Old Yet Highly Selective Dual Channel Ratiometric Fluoride and Hydrogen Sulfate Ion Sensor	Analyst 136, 275-277	RSC 0003-2654	Ref	04	YES (Corresponding author)	2011
34	Fluorescence photoswitching of a diarylethene perylenebisimide dyad based on intramolecular electron transfer	Photochem. Photobiol. Sci. 9, 181-190	RSC 1474-905X	Ref	06	No	2010
33	Ratiometric spectroscopic response of pH sensitive probes: A new strategy for multidimensional sensing of inorganic anions	Chem. Phys. Lett., 484, 168-172	Elsevier 0009-2614	Ref	02	YES (Corresponding author)	2010
32	Photophysics of Norharmane in solution phase: From homogeneous to microheterogeneous environments	J. Photochem. Photobiol. C. Photochem. Rev., 11, 47-57.	Elsevier 1389-5567	Ref	02	YES	2010
31	Rotational relaxation dynamics of a betacarboline analogue in cyclodextrin nanocavity: How does the cavity size	J. Mol. Struct. 934, 91-95.	Elsevier 0022-2313	Ref	Single	YES	2009

	barricade the molecular rotation?						
30	Probe-induced self aggregation of γ cyclodextrins: Formation of elongated nanotubular suprastructures	J. Phys. Chem. C 112, 9600-9603.	ACS 1932- 7445	Ref	02	No	2008
29	Effect of surfactant chanlength on the binding interaction of a biological photosensitizer with cationic micelles	J. Phys. Chem. B 112, 3684-3692.	ACS 1520- 5207	Ref	02	No	2008
28	Supramolecular inclusion in cyclodextrins: A pictorial spectroscopic demonstration	J. Chem. Edu. 89, 429-432	ACS 1938- 1728	Ref	01	No	2008
27	Application of anionic micelles for dramatic enhancement in quenching based fluorosensing efficiency	J. Colloid Interface Sci. 320, 9-14.	Elsevier 0021- 9797	Ref	02	No	2008
26	Photophysics of a cationic biological photosensitizer in anionic micellar environments: Combined effect of polarity and regidity	J. Phys. Chem. B 111, 11169-11176	ACS 1520- 5207	Ref	02	No	2007
25	Effect of cyclodextrin nanocavity confinement on the photophysics of a β - carboline analogue: A spectroscopic study	J. Phys. Chem. B 111, 7401-7408.	ACS 1520- 5207	Ref	03	No	2007

24	Surfactant chainlength dependent modulation of prototropic transformation of a biological photosensitizer: Norharmane in anionic Micelles	Langmuir 23, 4842-4848.	ACS 1520-5827	Ref	04	No	2007
23	Fluorescence resonance energy transfer from tryptophan to 3-acetyl-4-oxo-6,7-dihydro-12H indolo-[2,3-a]quinolozine in human serum albumin	J. Chem. Sci. 119, 1-6.	IAS 0973-7103	Ref	02	YES (Corresponding Author)	2007
22	Binding interaction of a biological photosensitizer with serum albumins: A biophysical study	Biomacromolecules 8, 920-927.	ACS 1526-4602	Ref	02	No	2007
21	Fluorescence resonance energy transfer from TX-100 to 3-acetyl-4-oxo-6,7-dihydro-12H indolo-[2,3-a]quinolozine in pre-micellar and micellar environments	J. Mol. Liq. 130, 48-51.	Elsevier 0167-7322	Ref	04	YES (Corresponding Author)	2007
20	Photoprocesses of electronically excited molecules in confined liquid environments: An overview	J. Photochem. Photobiol. C. Photochem. Rev., 8, 109-127.	Elsevier 1389-5567	Ref	02	YES	2007
19	Effect of nanocavity confinement on the rotational relaxation dynamics: 3-acetyl-4-oxo-6,7-dihydro-12H indolo-[2,3-a]	J. Chem. Phys. 125, 044516.	AIP 0021-9606	Ref	04	YES (Corresponding Author)	2006

	quinolizine in micelles						
18	Fluorometric and isothermal titration calorimetric studies on binding interaction of a telechelic polymer with sodium alkyl sulfates of varying chain length	Langmuir 22, 3514-3520	ACS 1520-5827	Ref	04	No	2006
17	Synthesis, Structural and fluorescence characterisation of three new Nickel, Zinc and Cadmium complexes with the N, N, O – Tridentate Schiff base N-2-pyridylmethylidene-2-hydroxy-phenylamine;	Polyhedron 25, 1753-1762.	Elsevier 0277-5387	Ref	03	No	2006
16	Surfactant induced modulation of fluorosensor activity: A simple way to maximize the sensor efficiency	J. Am. Chem. Soc. 128, 3126-3127	ACS 1520-5207	Ref	05	YES	2006
15	7-Hydroxy-4-methyl-8-(4'-methyl-piperazine-1'-yl) methyl coumarin: an efficient probe for fluorescence resonance energy transfer to a bioactive indoloquinolizine system	J. Lumines. 118, 165-172.	Elsevier 0022-2313	Ref	03	YES	2006
14	Photophysical studies of 7-hydroxy-4-methyl-8-(4'-methylpiperazine-1'-yl)methylcoumarin: a new fluorescent	J. Photochem. Photobiol. A: Chem 177, 55-60.	Elsevier 1010-6030	Ref	01	No	2006

	chemosensor for zinc and nickel ions in water						
13	Spectroscopic investigation on the interaction of ICT probe 3-acetyl-4-oxo-6,7-dihydro-12H indolo-[2,3-a]quinolizine with serum albumins	J. Phys. Chem. B 109, 14683-14690.	ACS 1520-5207	Ref	02	YES	2005
12	Photophysical study of 3-acetyl-4-oxo-6,7-dihydro-12H indolo-[2,3-a] quinolizine in biomimetic reverse micellar nanocavities: a spectroscopic approach	J. Phys. Chem. B 109, 14675-14682	ACS 1520-5207	Ref	04	YES	2005
11	Interaction of pyrene-end-capped poly(ethyleneoxide) with Bovine Serum Albumin and Human Serum Albumin in aqueous buffer medium: A fluorometric study	J. Photochem. Photobiol. B: Biol. 80, 217-224.	Elsevier 1011-1344	Ref	01	No	2005
10	Photophysics in motionally constrained bioenvironment: Interaction of norharmane with bovine serum albumin	Photochem. Photobiol. 81, 419-424.	APS 1751-1097	Ref	01	YES	2005
9	Photophysical studies on multichromophoric cyclotriphosphazene. Trinuclear excimer formation in hexakis(2-	Tet. Lett. 46, 3089-3092.	Elsevier 0040-4039	Ref	02	No	2005

	naphthyloxy)cyclotriphosphazene						
8	Encapsulation of norharmane in cyclodextrin: Formation of 1:1 and 1:2 complexes	J. Photochem. Photobiol. B: Biol., 78, 215-221.	Elsevier 1011-1344	Ref	02	YES	2005
7	Differential encapsulation of pyrene-end-capped poly(ethylene oxide) by cyclodextrins in aqueous solutions. A fluorometric study;	Ind. J. Chem. A 43, 2265-2273	Other 0975-0975	Ref	01	No	2004
6	Photophysics of pyrene-end-capped poly(ethyleneoxide) in aqueous micellar environments	J. Mol. Liq. 115, 113-120	Elsevier 0167-7322	Ref	01	No	2004
5	Intramolecular charge transfer in organized assemblies: Fluorescence of 3-acetyl-4-oxo-6,7-dihydro-12H indolo-[2,3-a] quimolizine in reverse micelles	J. Surface Sci. Technol. 20, 255-265	ISSST 0976-9420	Ref	01	YES	2004
4	Constrained photophysics of 3-acetyl-4-oxo-6,7-dihydro-12H indolo-[2,3-a] quinolizine in micellar environments: A spectrofluorometric study	J. Colloid. Interface Sci. 278, 215-223	Elsevier 0021-9797	Ref	02	YES	2004
3	Fluorometric investigation of interaction of 3-acetyl-4-oxo-6,7-dihydro-12H indolo-	Biophys. Chem. 112, 9-14.	Elsevier 0301-4622	Ref	03	YES	2004

	[2,3-a] quinolizine with bovine serum albumin						
2	Photophysics of norharmane in micellar environments: A fluorometric study	Biophys. Chem. 109, 261-270.	Elsevier 0301-4622	Ref	01	YES	2004
1	Photophysics of 3-acetyl-4-oxo-6,7-dihydro-12H indolo-[2,3-a] quinolizine : Emission from two states	Chem. Phys. Lett 371, 688 - 693.	Elsevier 0009-2614	Ref	03	YES	2003

No of Publication: 51; Total Citation: 2261; Average Citation: 44.33, h-index: 26, i-10 index; 38

10. Articles/Chapters Published in Edited Volume:

Sl. No	Name of Article/chapter	Name of Edited Volume, Editor and Publisher	ISBN No	No of Co-author	Whether you are the main author	Date of Publication
1	Fluorosensors for Detection of Analytes: From Synthesis to Application”, 245-260	Photo/Electrochemistry & Photobiology in the Environment, Energy and Fuel (PEPEEF '2007), Research Signpost, India, Chapter 7, Editor: Satoshi Kaneco, Japan	978-81-308-0159-9	02	YES	2007
2	Probe cyclodextrin interaction: Simple complexation to nanotube formation, 237-251.	Treatise on Photophysiology, Imagination Printers; India Editors: C. Haldar and P. Basu,	ISBN 978-81-921414-1-1	03	NO	2011
3	A Constant	A Tribute to Peoples	978-81-	01	YES	2015

	Source Which Truly Inspire 15-16	Man : A.P.J Abdul Kalam Who served our Nation Through his life & Works Publisher: Raghunathpur College Ed. Dr. Bhaskar. Biswas	929996-9-2			
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11. Full Papers in Conference Proceedings: NIL

Sl. No	Title with Page No	Details of Conference Publication	ISSN/ISBN No	No of Co-author	Whether you are the main author	Date of Publication

12. Published Books or Edited Volume: NIL

Sl. No.	Title	Book or Edited Volume	Publisher & ISBN No. (I. International II. National III. Regional)	Whether Peer Reviewed	No of Co-author/s	Whether you are the main author	Date of Publication

13. Papers Presented in Conferences/Seminars/Workshops/ Symposia:

Sl. No	Title of the Paper Presented	Title of the Conference/Seminar /Symposia	Organising Authority	Whether International/ National/ State/Regional/University /	Date of presenting the Paper
1	A newly Developed optochemical Molecular Lock with resettable and reconfigurable password: A rational design Strategy	24 th State Science Congress	WBDST	State	Feb, 28, 2017
2	A newly Developed optochemical Molecular Lock with	1 st Regional Science Congress	WBDST	Regional	Nov, 7-8, 2016

	resettable and reconfigurable password: A rational design Strategy				
3	Encapsulation of norharmane in cyclodextrin: Formation of 1:1 and 1:2 complexes	<i>Recent Advances in Photosciences</i>	Indian Photobiology Society	National	Aug, 09, 2008
4	Photophysical study on the interaction of a biological photosensitizer with transport proteins	<i>Structure and Dynamics: From Micro to Macro</i>	University of Calcutta	International	Dec, 14-16, 2006
5	Photophysical study of a biological photosensitizer in micellar environments	<i>Surfactants, Emulsion and Biocolloids (NATCOSEB XII-2005)</i>	ISSST and Manipur University	National	Nov, 9-11, 2005
6	Photohysics of Norharmane in micellar environments	<i>Photosciences for the Millennium (NASPHOM- 2005)</i>	Sambalpur University	National	Feb, 19-21, 2005
7	Surfactant chain length dependent prototropic transformation of a biological photosensitizer	<i>Soft Matter (ICSM-2004)</i>	ISSST and Jadavpur University	International	Nov, 18-20, 2004
8	Interaction of a beta carboline analogue with proteins	<i>Recent Trends in Research on Photosciences</i>	Jadavpur University	National	Jan, 30, 2004
9	Fluorescence resonance energy transfer from tx-100 to beta carboline analogue	<i>Surfactants, Emulsion and Biocolloids (NATCOSEB XI-2003)</i>	ISSST and UICT, Mumbai	National	Dec 11-13, 2003

14. Organising Seminar/Conference/Symposia:

Sl. No	Whether you are Convenor/C	Theme of the Conference/Seminar /Symposia	Whether International/National/Regional/State	Funding Authority	Date of the Conference/Seminar/Symposia
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	o-convenor		te/University Level		
1.	YES	A Tribute to A.P.J. Abdul Kalam	State Level	Institution	Sep, 11, 2015
2	YES	Recent Advances in Chemistry for better Tomorrow	National Level	UGC	24-25 Nov, 2016
3.	YES	Science at Popular Level	State Level	Institution	Dec, 13, 2017
4	YES	Recent Trends in Chemistry	National Level	Joint Council of Science Education Panel	26-27 Aug, 2018

15. Invited Lectures/Chairing the Session or Presentation for Conferences/Seminar/Symposia etc:

Sl. No	Title of the Lecture/Academic Session	Title of the Conference/Seminar	Organizing Authority	Whether International/National/State/Regional/University/College Level	Date of Conference/Seminar/Symposia
1	Surfactant Induced Modulation of Fluorosensor Activity: An Alternative Strategy	Current Trends in Chemistry	Deshbandhu Mahavidyalaya Chittaranjan, WB, India,	National Level	Nov, 25-26, 2011
2	Resource Person for the Poster Session	National conference on Photosciences: Contemporary Challenges and future Perspectives	Indian Photobiology Society & Department of Chemistry, J.U.	National Level	Dec, 12-14, 2013
3	Fluorosensor Research: Our Efforts both in strategy and searching utility molecules	Recent Progresses in Chemistry	Chemical Research Society of India (Kolkata Chapter) & S.K.B. University,	National Level	Aug, 13, 2014

			Purulia		
4	Chairperson in a Scientific Session	Recent Advances in Chemistry	Indian Academy of Science & Raghunathpur College	National Level	Aug, 21-22, 2014
5	Journey of Science in the periphery of dreams of Dr. A. P. J. Abdul Kalam	A Peoples Man :A.P.J Abdul Kalam	Raghunathpur College, Purulia	State Level	Oct, 15, 2015
6.	Chemical input based molecular Lock	Chemistry on its own way: its impact on the environment	Saldiha College, Bankura	National Level	Aug, 31, 2017
7.	Optochemical Devices: A new Avenue	NATCOSEB 2017	Sambalpur University	National Level	Nov, 1—12, 2017

16. Ongoing Projects/Consultancies: Nil

Sl. No	Title	Agency	Period	Grant/Amount Mobilized (Rs..)

17. Completed Projects/Consultancies:

Sl. No	Title	Agency	Period	Grant/Amount Mobilized (Rs.)
1	Indole Based Receptor for Ion and Molecule Recognition: Spectroscopic and Computational Studies	UGC	2.0 Years	4,45,000.00
2	Photophysical Study of Biologically Relevant Molecules in Confined Environments	UGC	1.5 Yrs	1,76,500.00
3	Spectroscopic Studies of Ratiometric Fluorogenic Probes for the Selective Detection of Biological Relevant Species	Osaka University, Japan	Bilateral Programme (3.0 Yrs)	1500000.00 Yen

18. Received Research Fellowship/ Awards:

Sl. No	Title	Funding Authority	Period	Grant/Amount Mobilized (Rs..)
1	Junior Research Fellowship	DST, Govt. of India	2002-2004	..
2	Best Poster Presentation Award	Indian Photobiology Society	2005	...
3	Senior Research Fellowship	CSIR, Govt. of India	2004-2005	...
4	Post-Doctoral Research Fellowship	Florida State University, USA	2006	
4	JSPS Post-Doctoral Research Fellowship	JSPS, Govt. Japan	2007-2008	
5	Invited Visiting Researcher	Osaka University, Japan	2014	
6	Outstanding Paper Presentation Award	1 st Regional Science Congress (WBSSCT)	2016	
7	Best Presentation Award in Chemistry	25 th State Science Congress (WBSSCT)	2017	

19. Academic Staff College Organised Orientation/ Refresher Courses Attended:

Name of the Courses	Place	Duration From	Sponsoring Authority
Orientation Programme	ASC, The University of BURdwan	Jan, 11- Feb 7, 2011	UGC
Summer School	ASC, The University of BURdwan	Sep, 05-25, 2013	UGC
Winter School	UGC-HRDC, University of Calcutta	Feb, 02 -22, 2017	UGC

20. Training Courses, Teaching-Learning-Evaluation Technology Programmes, Faculty Development Programme:

Sl. No	Programme/Course	Duration	Organising Authority	Period
1				

21. Research Guidance:

Sl. No	Name of the Research Student	Title of the Thesis/Dissertation	Date of Thesis Submission	Date of Degree Awarded
1	Dr. Soumen Mandal	Fluorescent Carbon Nanoparticles:	20.01.2017	13.04.2017

		Prospect in excited State Dynamics		
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22. Any other Information: Nil