

**Mugberia Gangadhar Mahavidyalaya**  
**Bhupatinagar, Purba Medinipur, West Bengal, India**

**CV format for Teachers**

<b>Name</b>	: Dr. Bidhan Chandra Samanta	
<b>Mailing Address</b>	: Department of Chemistry, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, 721425	
<b>E-mail</b>	: bidhansamanta@yahoo.in	
<b>Cell</b>	: 97327 52907	
<b>Academic Qualification</b>	: M.Sc., PhD	
<b>Designation</b>	: Assistant Professor	
<b>Date of Birth</b>	: 06/11/1977	
<b>Date of Joining the college</b>	: 19/12/2006	
<b>Previous Employment, if any</b>	: NIL	
<b>Experience (Teaching/Research/Other)</b>	: UG- 12 yrs PG- Nil Research- 16yrs	
<b>Area of Specialization</b>	: Organic Chemistry	
<b>Title of Ph.D. thesis</b>	: “Study of Mechanical and Thermal Properties of Modified Epoxy Networks and Modified Epoxy Based Composites with Poly (ethylene glycol) Based Toughening Agents”	
<b>Areas of Research Interest</b>	: Polymer Toughening, Polymer Curing, Synthesis of Schiff Base Ligand and Transition Metal complexes, Antibacterial and DNA binding studies	
<b>Research Experience other than M. Phil/Ph.D. (Post-Doc, Sponsored Research Projects etc.)</b>	: 10 years. Completed two UGC sponsored minor research project.	
<b>Involvement in other research activities</b>	: <b>Supervisor</b> - 1 scholar registered in University of Kalyani under supervision <b>Adjudicator</b> – Reviewed several research articles published in international journal	
<b>Publications (Numbers only) (details in the table below)</b>	: Books : 01 Edited Books: 04 Chapters in Books : 05 Journals : 23	
<b>Seminars/workshops attended / Papers presented (Numbers only) (details in the table below)</b>	: State Level : 03 National Level : 12 International Level : 05	
<b>Fellowships / Awards</b>	: Fellowship: 1, institute fellowship, IIT Kharagpur	

<b>availed/received</b>		Awards: Best paper presentation award, Haldia Institute of Technology	
<b>Involvement in Academic/ Professional organizations</b>	:	<ul style="list-style-type: none"> <li>➤ Indian Science Congress Association: Life Member</li> <li>➤ Frontiers in Applied Chemistry :Editorial Board Member</li> <li>➤ The Society for Polymer Science: Life Member</li> <li>➤ Emerald Literati Network*:Professional Member</li> </ul>	
<b>Participation in Administrative activities (with details )</b>	:	<ul style="list-style-type: none"> <li>➤ GB Member from 2010.</li> <li>➤ HOD Chemistry since 2007</li> <li>➤ Convener purchase committee</li> <li>➤ College Nodal Officer for AISHE</li> <li>➤ Convener Research Cell</li> <li>➤ Coordinator of communicative English.</li> <li>➤ Coordinator SC, ST Service Coaching Class</li> <li>➤ Coordinator CPE</li> </ul>	
<b>Any other relevant information</b>	:	Engaged in continuous research, teaching, administrative and extension works	

### Details of Publication-----

#### Published Papers in Journals

Sl. No.	Title with page no.	Journal	ISSN/ISBN No.	Whether peer reviewed. Impact factor, if any	No. of Co-author	Whether you are the main author
1	Amine Terminated Poly (Ethylene Glycol) Benzoate Modified Epoxy Networks, 4-11	Pigment and Resin Technology	0369-9420	0.616	3	Yes
2	Toughened Epoxy with Amine Functional Aniline Formaldehyde Condensate (AFAFC)" 12-21	Pigment and Resin Technology	0369-9420	0.616	3	Corresponding author
3	Synthesis, Characterization and Curing Studies of {2, 6 - Bis - [2 - (bis - oxiranylmethyl - amino) - methylbenzyl] - phenyl} - bis-oxiranylmethylamine (BPBOMA), 3168-3174	<i>Journal of Applied Polymer Science</i>	0021-8995 (print); 1097-4628 (web)	1.600	3	No
4	Amine-terminated Poly (ethylene glycol) benzoate (ATPEGB) Modified Epoxy: Mechanical and Thermal Properties,	Journal of Adhesion Science and Technology	0169-4243 (Print) 1568-5616 (Online)	0.900	3	Yes

	491-502					
5	Mechanical properties of modified epoxy: Effect of chain length, 216-223	Pigment and Resin Technology	0369-9420	0.616	3	Yes
6	Synthesis, Characterization and Curing Studies of BCCOMB, 30-38	Pigment and Resin Technology	0369-9420	0.616	3	Corresponding author
7	Curing Study of Epoxy Resin by New Aromatic Amine Functional Curing Agents along with Mechanical and Thermal Evaluation, 38-46	<i>Materials Science and Engineering A</i>	0921-5093	3.414	3	No
8	Toughening of epoxy resin with amine functional aniline acetaldehyde condensate, 1695-1702	<i>Polymer Engineering and Science</i>	1548-2634	1.551	3	No
9	Toughening of Epoxy Resin with Solid Amine Terminated Poly (ethylene glycol) benzoate and Effect of Red Mud Waste Particles on it, 272-278	<i>Journal of Materials Science and Technology</i>	1005-0302	3.609	3	Yes
10	Influences of Amine Terminated Oligomers on Glass Fiber-Epoxy Composite, 3-8	Pigment and Resin Technology	0369-9420	0.616	3	Yes
11	Amine functional chloroaniline acetaldehyde condensate modified epoxy networks, 3717-3726	<i>Journal of Applied Polymer Science</i>	0021-8995 (print); 1097-4628 (web)	1.600	2	Corresponding author
12	Modification of cured epoxy with amine functional chloroaniline formaldehyde condensate, 143-152	<i>Pigment and Resin Technology</i>	0369-9420	0.616	3	Corresponding author
13	Amine functional aniline furfuraldehyde condensate cured epoxy resin, 285-289	<i>Pigment and Resin Technology</i>	0369-9420	0.616	1	Corresponding author
14	Effect of modifier and filler concentration on properties of epoxy-red mud waste composite, 380-386	<i>Pigment and Resin Technology</i>	0369-9420	0.616	1	Yes
15	Modification of Glass Fiber-Reinforced	<i>Journal of Adhesion</i>	0169-4243 (Print)	0.90	1	Yes

	Epoxy with Amine Functional Aniline Formaldehyde Condensate (AFAFC), 1031-1043	<i>Science and Technology</i>	1568-5616 (Online)			
16	Synthesis, characterisation, curing reaction of aniline acetaldehyde condensate with epoxy resin, 285-291	<i>Pigment and Resin Technology</i>	0369-9420	0.616	1	Corresponding author
17	Effectiveness of amine functional aniline furfuraldehyde condensate as toughening agent for epoxy resin, 344-350	<i>Pigment and Resin Technology</i>	0369-9420	0.616	1	Yes
18	Curing study and evaluation of epoxy resin with amine functional chloroaniline acetaldehyde condensate, 19-25	<i>Pigment and Resin Technology</i>	0369-9420	0.616	1	Corresponding author
19	Effect of Red Mud Waste Filler on Mechanical and Thermal Properties of Amine Functional Aniline Furfuraldehyde Condensate (AFAFFC) Modified Epoxy Composite, 184-190	<i>Pigment and Resin Technology</i>	0369-9420	0.616	1	Corresponding author
20	Octahedral Ni(II) complex with new NNO donor Schiff base ligand: Synthesis, structure and Hirshfeld surface, 844-854	<i>Journal of Molecular Structure</i>	0022-2860	2.011	4	Corresponding author
21	Square pyramidal copper(II) complex with Schiff base ligand: synthesis, crystal structure, antibacterial and DNA interaction studies, 69-78	Transition Metal Chemistry	0340-4285 (Print) 1572-901X (Online)	1.465	7	Corresponding author
22	Synthesis, structure and biological properties of a Co(II) complex with tridentate Schiff base ligand, 1-13	Journal of coordination Chemistry	0095-8972 (Print) 1029-0389 (Online)	1.795	7	Corresponding author
23	Quantifying conventional C-H... $\pi$ (aryl) and unconventional C-H... $\pi$ (chelate) interactions in dinuclear Cu(II) complexes: Experimental	New Journal of Chemistry		3.277	6	Corresponding author

	observations, Hirshfeld surface and theoretical DFT tudy					
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### Articles/ Chapters published in Books

Sl. No.	Title with page no.	Book title, editor & publisher	ISSN/ISBN No.	Whether peer reviewed.	No. of Co-author	Whether you are the main author
1.	Fresh and Unprocessed Foods: Safe for most, Dangerous for some	Safe and Environment friendly Food Additives and Dyes Dr. Tithi Maity & Dr. Bidhan Ch. Samanta Readers Service, Kolkata	978-81-87891-53-6	No	0	Yes
2.	Adverse Health Effects of Chemicals leaching from Plastic Food Containers	Safer Food - Better Health Dr. P. K. Ray Readers Service, Kolkata	978-93-82623-15-1	No	1	Yes
3.	Use of Water as one of the Greener Alternatives in Organocatalysis	Organocatalysis: New Methodologies for Sustainable Chemistry Dr. Bidyut Kumar Senapati Readers Service, Kolkata	978-93-82623-44-1	No	1	Yes
4.	Progress Made in the Development of Biodegradable Polymer Materials	Environment Friendly Biodegradable Polymers Dr. Bidhan Ch. Samanta & Dr. Tithi Maity Mallick Book Centre, Kolkata	978-81-926694-0-3	No	0	Yes
5.	Curing and Toughening study of Epoxy Resin with Amine Functional Polymers	Recent Trends in Research in Chemical Sciences Dr. Kaushik Ghosh Ghatal R. S. Mahavidyalaya, Paschim Medinipur	978-93-5267-187-8	No	2	Corresponding

### Full papers in Conference Proceedings

Sl. No.	Title with page no.	Details of Conference Publication	ISSN/ ISBN No.	No. of Co-author	Whether you are the main author
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1	Toughening of Epoxy Resin Modified with Amine Terminated Poly (Ethylene Glycol) Benzoate (ATPEGB) 664-671	The 2nd International Conference on Structure Processing and Properties of Materials, SPPM2004	---	2	Yes
2.	Mechanical and thermal properties of Cured Epoxy Toughened with Amine Terminated Poly (ethylene Glycol) Benzoate (ATPEGB) 513-520	International Symposium on Advance Materials and Processing, ISAMAP2k4	----	3	Yes
3.	Thermal study of Cure Epoxy by New Aromatic Amine functional Curing Agents 521-527	International Symposium on Advance Materials and Processing, ISAMAP2k4	----	3	No
4.	Mechanical and Thermal Studies of Liquid ATPEGB Modified Epoxy-Red Mud Waste Composites 990-999	2nd International Conference on Recent Advances in Composite Materials, ICRACM-2007	---	3	Yes
5.	Effect of Amine Functional Aniline Formaldehyde Condensate (AFAFC) on Mechanical Properties of Glass Fiber Reinforced Epoxy 226-238	2nd International Conference on Recent Advances in Composite Materials, ICRACM-2007	---	3	No

### Books published as author/editor

Sl. No.	Title with page no.	Type of Book, & authorship	Publisher & ISSN/ISBN No.	Whether peer reviewed.	No. of Co-author	Whether you are the main author
1	"Safe and Environment friendly Food Additives and Dyes"	Edited Book Editor	Readers Service, Kolkata 978-81-87891-53-6	No	1	Yes
2.	"Toughening	Text Book	Scholar's Press,	Yes	1	Yes

	of Epoxy Networks by Some New Synthesized Toughening Agents”	Author	Germany 978-3-639-71147-9			
3	“Environment Friendly Biodegradable Polymers: Present and Future”	Edited Book Editor	Mallick Book Centre, Kolkata 978-81-926694-0-3	No	1	Yes
4	Fluorosis and Arsenicosis: A Global Problem	Edited Book Editor	Nectar Kolkata	No	1	Yes

### Details of Seminar Participation-----

#### Papers presented in Conferences, Seminars, Workshops, Symposia

Sl. No.	Title of the paper presented	Title of Conference/ Seminar With date	Organized by	Level International/ National/State/ Regional/College/ University
1.	Toughening of Epoxy Resin Modified with Amine Terminated Poly (Ethylene Glycol) Benzoate (ATPEGB)”	Structure Processing and Properties of Materials, SPPM2004 25-27, Feb. 2004	Materials and Metallurgical Engineering Department, BUET, Dhaka, Bangladesh	International
2.	Toughening of Epoxy Resin Modified with Amine Terminated Poly (Ethylene Glycol) Benzoate (ATPEGB)	International Symposium on Advance Materials and Processing, ISAMAP2k4 6-8 Dec. 2004	Materials Science Centre, IIT, Kharagpur	International
3.	Mechanical and Thermal Studies of Liquid ATPEGB Modified Epoxy-Red Mud Waste Composites	2nd International Conference on Recent Advances in Composite Materials, ICRACM-2007 Feb. 20-23, 2007	Institute of Technology, Banaras Hindu University, Department of Mechanical Engineering, Baranasi	International
4.	Effects of Climate change on People and Environment caused by Global warming	Global Warming: Causes and Effects Dec. 2, 2011	Department of Zoology, Mugberia Gangadhar Mahavidyalaya Bhupatinagar, Purba Medinipur, West Bengal	State
5	Fresh and Unprocessed Foods: Safe for most, Dangerous for some	Safe and Environment friendly Food Additives and Dyes 2 <sup>nd</sup> & 3 <sup>rd</sup> Feb., 2012	Hijli College, Kharagpur, Paschim Medinipur, West Bengal	National
6.	Recent Developments of Sustainable Strategies in Organocatalysis	Organocatalysis: New Methodologies for Sustainable	P. K. College, Contai, Purba Medinipur, West Bengal	National

		Chemistry March 23 & 24, 2013		
7.	Adverse Health Effects of Chemicals leaching from Plastic Food Containers	Safer Food - Better Health Aug. 7th & 8th ,2013	P. K. College, Contai, Purba Medinipur, West Bengal	National
8.	Chemistry and Its Interactive Role as Creator and Enabler in Materials Science and Biology	Chemistry and Its Interface with other Scientific Disciplines December 12, 2014	Sitananada College, Nandigram, Purba Medinipur, West Bengal	National
9.	Review on Recent Sustainable Strategies in Organocatalysis	Science for Sustainable Development December 16-18, 2014	World Science Congress, 58/24, Prince Anwar Shah Road, Lake Gardens, Kolkata - 700 045, India	International
10.	Safe Innovative Packages for Food	Food Processing, Preservations and Packaging March 17-18, 2015	Department of Chemistry & Chemical Technology, Vidyasagar University, Paschim Medinipur, West Bengal, India	National
11.	Biomass - A Great Promise to Renewable Energy Source	<i>International Conference on Recent Trends in Energy Technologies (ICRTET- 2016)</i> January 21-23, 2016	HRC- IICChE, Haldia Institute of Technology, Haldia, India	<i>International</i>
12.	Curing and Toughening study of Epoxy Resin with Amine Functional Polymers	Recent Trends in Research in Chemical Sciences August 30, 2016	Department of Chemistry, Ghatal R. S. Mahavidyalaya, Ghatal, Paschim Medinipur	National
13.	Use of Fluorescence Spectroscopy in the Interaction Study of DNA with Transition Metal Complexes	The Basics of Fluorescence with its Present-Day application October 4th & 5th 2016	Department of Chemistry & Physics, Bajkul Milani Mahavidyalaya, Bajkul, Purba Medinipur	National