

Brief CV of Professor Pranesh Chowdhury



1. Personal Information

- (a) Name: Dr. Pranesh Chowdhury
- (b) Present Designation: Professor
- (c) Date of Birth: 05.09.1965
- (f) Workplace: Department of Chemistry, Visva-Bharati (A central University), Santiniketan-731235
- (g) Email: praneshchem@gmail.com; pranesh.chowdhury@visva-bharati.ac.in
- (e) Contact number: 9434056175

2. Educational Qualification

Madhyamik (1980, First Division, WBBSE)
Higher Secondary (1982, First Division, WBCHSE)
B.Sc. (1986, First Class, Visva-Bharati)
M.Sc. (1988, First Class, Visva-Bharati)
Ph.D. (1994, Indian Institute of Technology, Kharagpur)
Qualified NET (1989) and GATE (1989), awarded JRF and SRF.
Leadership for advancing higher education in India (Harvard, USA & ISSER, Kolkata, 2019)

3. Awards

- (i) National Scholar (WBBSE & WBCHSE)
- (ii) Leader of education in India (MHRD, India)

4. Teaching Experience

- (a) As Lecturer: National Institute of Technology, Durgapur: **5 Years** (B. Tech, M. Tech)
- (b) As Reader: Visva-Bharati, Santiniketan: **10 Years** (UG, PG, and Ph. D.)
- (c) As Professor: Visva-Bharati, Santiniketan: **14 years** (PG, Ph. D.) & **continuing**

5. Research Experience

- (a) As Research Scholar: 5 years (1989-1994, IIT, Kharagpur), Field: Polymer Science and Technology
- (b) As Faculty: 27 years (1995-2022, NIT, Durgapur & Visva-Bharati, Santiniketan)

6. Publications & Ph.D. student produced

- (a) Total Number of National & International publications: 111
- (b) Total Number of Book/Book chapter published: 02
- (c) Number of Ph.D. students produced so far: 17
- (d) Number of PDF worked under the mentorship so far: 02

7. Number of funded Project completed so far

- (a) UGC, New Delhi funded: 05; (b) AICTE, New Delhi: 02
- (c) CSIR, New Delhi: 03; (d) SERB, New Delhi: 02

8. Administrative Activities

- (a) Completed the course- Leadership for advancing higher education in India (MHRD, 2019);
- (b) Served as Head of the Department, Chemistry (3 years); (c) Served as Hostel Warden (years); (d) Acted as co-coordinator of various UGC-SAP; (e) Associated with various committee both our University and Other Universities as BOS member

9. Additional information

<https://pchowdhurypnrl.wixsite.com/my-site-3>

<http://vbchem.ac.in/praneshchowdhury/>

<https://publons.com/researcher/3790029/pranesh-chowdhury>

<https://scholar.google.com/citations?user=gRLqybsAAAAJ&hl=en>

<https://vidwan.inflibnet.ac.in/myprofile>

10. List of publications

Sl. No	Year	Title of the papers	Name of the authors	Name of the Journals with ISBN & Impact factor	Vol .	Page number
1	1992	Use of sulfur bearing rubber accelerators for curing poly acrylic rubber in presence of metal oxides	P.Chowdhury, M.C.Chakravorti, C.K.Das, T.B.Ghosh	Kautschuk Gummi Kunststoffe ISSN: 0948-3276	45	1014 - 1018
2	1993	The effect of metal oxides on blocked diamine curing of poly acrylic rubber	P.Chowdhury, M.C.Chakravorti, C.K.Das	Kautschuk Gummi Kunststoffe ISSN: 0948-3276 https://jglobal.jst.go.jp/en/detail?JGLOBAL_ID=200902195353925501	46 (10)	781- 784
3	1994	The Role of Metal Oxides in Ammonium Benzoate Curing of Polyacrylic Rubber Both in Presence and Absence of Fillers	P.Chowdhury, M.C.Chakravorti, C.K Das	International Journal of Polymeric Materials and Polymeric Biomaterials ISSN: 0091-4037 (Print) 1563-535X (Online) https://doi.org/10.1080/00914039408029329	23 (3-4)	177-188
4	1994	The cross-linking of poly acrylic rubber in presence of group IIB metal oxides	P.Chowdhury, M.C.Chakravorti, C.K.Das	Journal of Applied Polymer Science ISSN: 0021-8995(print); 1097-4628(online); https://doi.org/10.1002/app.1994.070520908	52 (9)	1233- 1240
5	1994	Use of group IV B metal oxides for curing of poly acrylic rubber	P.Chowdhury, M.C.Chakravorti, C.K.Das	International Journal of Polymeric Materials and Polymeric Biomaterials ISSN: 0091-4037(print); 1563-535X(online); https://doi.org/10.1080/00914039408029347	26 (1-2)	25 – 40

6	1994	The role metal oxides in the MBT curing of poly acrylic rubber	P.Chowdhury, M.C.Chakravorti, C.K.Das	Macromolecular Reports ISSN: 1060-278X	31	439-446
7	1994	Effects of group IIB and IVB metal oxides on curing of poly-acrylic rubber	P.Chowdhury, M.C.Chakravorti, C.K.Das	Kautschuk Gummi Kunststoffe ISSN: 0948-3276	47	174-177
8	1995	Effects of fillers on the sulphenamide and thiazole cure of poly acrylic rubber in presence of metal oxides	P.Chowdhury, M.C.Chakravorti, C.K.Das	Journal of Polymer Engineering ISSN: 2191-0340 https://doi.org/10.1515/POLYENG.1994.13.4.315	13 (4)	315-317
9	1995	Role of PbO in Covulcanization of Carboxylated Nitrile-Polyacrylic Rubber Blend in the Presence of Ethylene Thiourea or Mercaptobenzothiazole	P.Chowdhury, M.C.Chakravorti, C.K.Das	Journal of Applied Polymer Science ISSN: 0021-8995(print); 1097-4628(online) https://doi.org/10.1002/app.1995.070550601	55 (6)	841-849
10	1998	Graft polymerization of methyl methacrylate onto poly vinyl alcohol using Ce ⁴⁺ initiator	P.Chowdhury, M.Banerjee	Journal of Applied Polymer Science ISSN: 0021-8995(print); 1097-4628(online) <a href="https://doi.org/10.1002/(SICI)1097-4628(19981017)70:3<523::AID-APP14>3.0.CO;2-1">https://doi.org/10.1002/(SICI)1097-4628(19981017)70:3<523::AID-APP14>3.0.CO;2-1	70 (3)	523-527
11	1998	Graft co-polymerization of ethyl methacrylate onto polyvinyl alcohol using Ce(IV) ion	P.Chowdhury	Indian Journal of Chemical Technology ISSN: 0971-457X (print); 0975-0991(online) http://nopr.niscpr.res.in/handle/123456789/30869	5 (5)	346-350
12	1999	Graft co-polymerization of methyl acrylate onto poly vinyl alcohol using Ce(IV) ion	P.Chowdhury, C.M. Pal	European Polymer Journal ISSN: 0014-3057 https://doi.org/10.1016/S0014-3057(99)00017-8	35 (12))	2207-2213

13	1999	Graft co-polymerization of ethyl acrylate onto polyvinyl alcohol using Ce(IV)-dextrose pair	P.Chowdhury, N.D. Chowdhury	Journal of Polymer Materials Journal ISSN: 9700838 ISSN: 0973-8622(print); 0976-3449 (online)	16 .	321-327
14	2000	Presence of phenol in the ground water of Durgapur region ——— The role industrial discharge in ground water pollution	P.Chowdhury, A.Gagopadhyay, K.Adhikari	Indian Journal of Environmental Protection ISSN: 0253–7141	20	649-657
15	2001	Graft polymerization of methyl methacrylate onto guar gum with ceric ammonium sulphate / dextrose redox pair	P.Chowdhury, T.Kundu., S.Samui, M.M.Nandi	Journal of Applied Polymer Science ISSN: 0021-8995(print); 1097-4628(online) https://doi.org/10.1002/app.2214	82 (14)	3520-3525
16	2002	Effect of chain length of alkyl group of alkyl methacrylate on graft polymerization onto polyvinyl alcohol using ceric ion initiator	P.Chowdhury, T.Kundu, S.Samui, B.Saha	Indian Journal of Chemical Technology ISSN: 0971-457X (print); 0975-0991(online)	9	35 – 40
17	2003	Graft polymerization of ethyl methacrylate onto guar gum with ceric ion / dextrose redox pair	P.Chowdhury, T.Kundu, S.Samui, B.Saha, A.K.Ghosh	Indian Journal of Chemical Technology ISSN: 0971-457X (print); 0975-0991(online) http://nopr.niscpr.res.in/handle/123456789/22696	10 (1)	38 – 43
18	2003	A study on Hall Voltage and electrical resistivity of doped conducting polyaniline	P.Chowdhury, B.Saha, P.Ghosh, A.Sarkar, A.K.Meikap, S.K.Chattopadhyay, S.K.Chatterjee	Czechoslovak Journal of Physics ISSN: 0011-4627 (print); 0572-9486 (online) https://doi.org/10.1023/B:CJOP.0000010586.93433.3a	53 (12)	1219-1227
19	2004	Synthesis and characterization of poly methyl methacrylate grafted acacia gum	P.Chowdhury, T.Kundu, S.Samui	Journal of Chinese Chemical Society ISSN: 0009-4536 (print); 2192-6549 (online)	51 (1)	97 – 101

				https://doi.org/10.1002/jccs.200400016		
20	2005	Role of 1,10-phenanthroline and phosphoric acid on graft polymerization of vinyl monomers from poly (vinyl alcohol) in the presence of Fenton's reagent	P.Chowdhury , Md. A. Ali	Journal of Applied Polymer Science ISSN: 0021-8995(print); 1097-4628(online) https://doi.org/10.1002/app.21460	97 (6)	2335-2339
21	2005	Potassium dichromate initiated polymerization of aniline	P.Chowdhury , B.Saha	Indian Journal of Chemical Technology ISSN: 0971-457X (print); 0975-0991(online);Corpus ID: 56168510 https://nopr.niscpr.res.in/bitstream/123456789/8690/1/IJCT%2012(6)%20671-675.pdf	12	671-675
22	2005	Preparation of Poly(vinyl alcohol) hydro-gel film with acrylic acid for selective absorption of heavy metal ions	P.Chowdhury , Md.A. Ali	Journal of Polymer Materials ISSN: 0973-8622 (print); 0976-3449 (online) https://digitalcommons.memphis.edu/facpubs/14112	22	277-281
23	2007	Potassium iodate initiated polymerization of aniline	P.Chowdhury , B.Saha	Journal of Applied Polymer Science ISSN: 0021-8995(print); 1097-4628(online) https://doi.org/10.1002/app.24609	103 (3)	1626-1631
24	2007	Effect of 1,10-phenanthroline on the graft polymerization of vinyl monomers onto guar gum in presence of Fenton's reagent	P.Chowdhury , Md.A.Ali, T.Kundu, A.Ghosh	Journal of Indian Chemical Society ISSN: 0019-4522 https://doi.org/10.5281/zenodo.5811783	84	88 – 92
25	2007	Synthesis, characterization and kinetic studies of PEMA grafted acacia gum	P.Chowdhury , Md.A.Ali, S.Samui, A.Ghosh	Indian Journal of Chemical Technology ISSN: 0971-457X(print); 0975-0991(online) http://nopr.niscpr.res.in/handle/1	14 (2)	126-133

				23456789/1072		
26	2007	Effect of acrylic acid doping on the properties of chemically synthesized poly aniline	P.Chowdhury , B.Saha, B.Singh, S.Ghosh I.Basumallick	Journal of Indian Chemical Society ISSN: 0019-4522	84 (2)	176- 180
27	2007	Free radical graft polymerization of methyl methacrylate from PVA using FeCl ₃ /K ₂ S ₂ O ₅ redox pair	P.Chowdhury , Md.A.Ali, K.Roy	Indian Journal of Chemistry ISSN: 0376-4710 https://digitalcommons.memphis.edu/facpubs/13820	46 A (9)	1414- 1418
28	2007	Graft polymerization of methyl methacrylate onto guar gum in presence of ammonium vanadate and hydrogen peroxide	P.Chowdhury , K.Roy, Md.A.Ali, T.Kundu, A.Ghosh	Journal of Polymer Materials ISSN: 0973-8622 (print); 0976-3449 (online) https://digitalcommons.memphis.edu/facpubs/13843	24 (3)	263-270
29	2008	Electrical-Transport Properties of Iodine-doped Conducting Polyaniline	A.Sarkar, P.Ghosh, A.K.Meikap, S.K.Chattopadhyay, S.K.Chatterje, P.Chowdhury , K.Roy, B.Saha	Journal of Applied Polymer Science ISSN: 0021-8995(print); 1097-4628(online); https://doi.org/10.1002/app.27615	108 (4)	2312- 2320
30	2008	Vanadium(V) initiated graft copolymerization of vinyl monomers onto polyvinyl alcohol	P.Chowdhury , Md.A.Ali	Journal of Indian Chemical Society ISSN: 0019-4522 https://doi.org/10.5281/zenodo.5816636	85	600-606
31	2008	Preparation and characterization of silanized silica gel supported polyacrylic acid network polymer and study of its analytical application as selective extractor for lead ion	P.Chowdhury , S.K.Pandit, B. Mondal	Journal of Applied Polymer Science ISSN: 0021-8995(print); 1097-4628(online) https://doi.org/10.1002/app.28664	110 (1)	475-480
32	2008	Extraction chromatographic studies of uranium(VI) with crosslinked	B.Mondal, P.Chowdhury S.K.Pandit,	Journal of Indian Chemical Society ISSN: 0019-4522 https://doi.org/10.5281/zenodo.5816636	85	930-935

		poly(acrylic acid) coated on silica gel		20255		
33	2008	Solid phase extraction of cerium(IV) with crosslinked polyacrylic acid coated on silica gel	P.Chowdhury, S.K.Pandit, B.Mondal	Indian Journal of Chemistry ISSN: 0376-4710) Corpus ID: 54882334 https://nopr.niscepr.res.in/bitstream/123456789/2226/1/IJCA%2047A(10)%201528-1532.pdf	47 A	1528-1532
34	2008	HCL doped polyaniline: An adsorbent for the treatment of Cr(VI) contaminated wastewater	P.Chowdhury, K.Roy, P.Mondal	Journal of Polymer Materials ISSN: 0973-8622(print); 0976-3449(online)	25	589-600
35	2008	Extraction chromatographic studies of Fe(III) with crosslinked poly(acrylic acid) coated on silica gel	P.Chowdhury, B.Mondal S.K.Pandit	Chemical and Environmental Research ISSN: 0971-2151	17	209-219
36	2009	Synthesis of graft copolymer of poly (acrylic acid) and poly(vinyl alcohol) in the presence methylene bisacrylamide cross-linker and investigation of its efficiency in removing lead ion from aqueous solution	P.Chowdhury, A.Mikherjee, B.Singha, S.K.Pandit	Journal of Macromolecular Science, Part A: Pure and Applied Chemistry ISSN: 1060-1325 print; 1520-5738 online https://doi.org/10.1080/10601320902797855	46 (5)	547-553
37	2009	Solid phase extraction of Hg(II) ions with cross-linked poly(acrylic acid) coated on silanized silica gel	P.Chowdhury, S.K.Pandit, B.Mondal	Journal of Indian Chemical Society ISSN: 0019-4522	86	377-382
38	2009	Studies on adsorption and desorption of Cr(VI) onto chemically synthesized hydrochloric acid doped	P.Chowdhury, K.Roy, P.Mondal	The Open Macromolecule Journal ISSN: 1874-3471	3	6-12

		polyaniline surface				
39	2009	Synthesis of cross-linked graft co-polymer from acrylic acid, poly(vinyl alcohol) and glutaraldehyde for extraction of lead ion from aqueous solution	P.Chowdhury , A.Mukherjee, B.Singha, S.K.Pandit	Fibers and Polymers ISSN: 1229-9192 https://doi.org/10.1007/s12221-009-0562-2	10 (4)	562-567
40	2009	Studies on adsorption and desorption of Cr(VI) onto Aliquat 336 impregnated silica gel	P.Chowdhury , P.Mondal	International Journal of Wastewater Treatment and Green Chemistry ISSN: 0976-6200	1	23-28
41	2009	Role of polymers in the removal and recovery of chromium from wastewater	P.Chowdhury	Journal of Macromolecular Science, Part A: Pure and Applied Chemistry ISSN: 1060-1325 print; 1520-5738 online DOI:10.1080/10601320903158784 https://www.tandfonline.com/doi/full/10.1080/10601320903158784	46 (10)	1030-1038
42	2009	Synthesis of Pt nano electrocatalyst for methanol oxidation using polymer template	P.Chowdhury , M.Chatterjee, S.Ghosh, I.Basumallick	ECS Transaction ISSN: 1938-5862 DOI: 10.1149/1.3265872 https://iopscience.iop.org/article/10.1149/1.3265872	19	87-95
43	2009	Investigation of Th(IV) separation on silica gel supported cross-linked poly(acrylic acid)	B.Mondal, P.Chowdhury , S.K. Pandit	Chemical Environmental Research <i>0971-2151; 0.5432</i>		
44	2010	Synthesis of cross-linked graft copolymer from [2-(methacryloxy) ethyl] trimethylammonium chloride and poly(vinyl alcohol) for removing chromium(VI) from	P.Chowdhury , K.Roy, P.Mondal	Polymer Bulletin <i>ISSN: 0170-0839</i> https://doi.org/10.1007/s00289-009-0146-8	64	351-362

		aqueous solution				
45	2010	Adsorption and Separation of Mercury: Sorption-Desorption of Hg ²⁺ with Cross-Linked Graft Copolymer of Acrylic Acid and its Application in the Metal Ion Separation Process	P.Chowdhury , A.Mukherjee, B.Singha	Separation Science and Technology ISSN: 0149-6395 print;1520-5754 online https://doi.org/10.1080/01496390903423154	45	256-262
46	2010	Studies on Hg(II) ion retention properties on cross-linked graft copolymer of acrylic acid and its analytical application	P.Chowdhury , A.Mukherjee, B.Singha	Journal of Polymer Research ISSN: 1022-9760 DOI: 10.1007/s10965-009-9377-5 https://link.springer.com/article/10.1007/s10965-009-9377-5	17	853-860
47	2010	Synthesis of cross-linked poly(vinyl alcohol) and investigation of its efficiency in removing lead ion from aqueous solution	B. Singha, A. Mukherjee, P. Chowdhury	Journal of Indian Chemical Society ISSN: 0019-4522	87	1329-1333
48	2011	Synthesis of polyaniline nanoparticles grafted silica gel and study of its Cr(VI) binding property	P.Chowdhury ,P.Mondal, K.Roy	Journal of Applied Polymer Science ISSN: 0021-8995(print); 1097-4628(online); https://doi.org/10.1002/app.32790	119	823-829
49	2011	Synthesis of polypyrrole nanoparticles and its grafting with silica gel for selective binding of Cr(VI)	P. Mondal, K. Roy, S. P. Bayen, P. Chowdhury	Talanta ISSN: 0039-9140 https://doi.org/10.1016/j.talanta.2010.11.037	83	1482-1486
50	2011	Synthesis of cross-linked poly(vinyl alcohol) and studies of its efficiency in up taking zinc ion from aqueous solution	A. Mukherjee, B. Singha, P.Chowdhury	Indian Journal of Chemistry ISSN: 0376-4710 WOS:000292011000007 https://nopr.niscpr.res.in/bitstream	50 A	802-806

				m/123456789/11908/1/IJCA%2050A(6)%20802-806.pdf		
51	2011	Synthesis of cross-linked graft copolymer hydrogel from maleic acid, polyvinyl alcohol and methylene bisacrylamide and studies of its efficiency in up taking zinc from aqueous solution	A. Mukherjee, B. Singha, P.Chowdhury	Journal of Indian Chemical Society ISSN: 0019-4522 https://doi.org/10.5281/zenodo.5790609	88	1517-1554
52	2011	Synthesis and application of cross-linked graft copolymer from polyvinyl alcohol and malic acid	A. Mukherjee, B. Singha, P.Chowdhury	Indian Journal of Chemistry ISSN: 0376-4710 Corpus ID: 37213549 http://nopr.niscpr.res.in/handle/123456789/13109	50 A	1730-1734
53	2012	Selective solid phase extraction of Cr(VI) using silica gel immobilized 4-vinyl pyridine /Cupric ion complex	P. Mondal, K. Roy, S. P. Bayen, S.K.Saha , S. Chatterjee P.Chowdhury	Separation Science and Technology ISSN: 0149-6395 print;1520-5754 online https://doi.org/10.1080/01496395.2012.686422	47	1651-1659
54	2012	Chemical and biochemical activities of sonochemically synthesized poly(N-isopropyl acrylamide)/silica nano composite	P.Chowdhury , S.K.Saha A.Guha, S.K.Saha	Applied Surface Science ISSN: 0169-4332; 2.103 https://doi.org/10.1016/j.apsusc.2012.08.062	261	598-604
55	2012	Sonochemical synthesis of polypyrrole salt and study of its Cr(VI) sorption-desorption properties	P. Mondal, K. Roy S. P. Bayen, P.Chowdhury	Journal of Macromolecular Science-Part A; Pure and Applied Chemistry ISSN: 1060-1325 print; 1520-5738 online https://doi.org/10.1080/10601325.2012.722852	49	931-935
56	2013	Simultaneous polymerization and	P.Mondal, S.K.Saha P.Chowdhury	Journal of Applied Polymer Science	127	5045-5050

		quaternization of 4-vinyl pyridine		ISSN: 0021-8995(print); 1097-4628(online) https://doi.org/10.1002/app.38119		
57	2013	Sonochemical quaternization of poly(4-vinyl pyridine) with iodoethane and study of its sorption of Cr(VI)	P. Mondal, K. Roy, S. P. Bayen, S.K.Saha , P.Chowdhury	Journal of Indian Chemical Society ISSN: 0019-4522 DOI: 10.5281/zenodo.5764096	90	61-67
58	2013	Synthesis of cross-linked graft copolymer from styrene sulfonate monomer and poly(vinyl alcohol) and study of its lead ion binding capacity	A. Mukherjee, B. Singha, P.Chowdhury	Journal of Indian Chemical Society ISSN: 0019-4522 https://zenodo.org/records/5764181	90	93-98
59	2013	Synthesis of quaternized poly(4-Vinyl Pyridine) and the study of its ion exchange property	P.Chowdhury , S.K.Saha, S.P.Bayen	Journal of Macromolecular Science-Part A; Pure and Applied Chemistry ISSN: 1060-1325 print; 1520-5738 online https://doi.org/10.1080/10601325.2013.813824	50	976-982
60	2013	Synthesis of novel aniline immobilized silica gel for the selective extraction of Cr(III)	P.Chowdhury S.P.Bayen	Desalination and Water Treatment ISSN: 1944-3994 print; 1944-3986 online https://doi.org/10.1080/19443994.2013.803652	52	1550-1559
61	2013	Aniline/Cupric Ion Complex on Silica Surface: Synthesis, Characterization and Analytical Application	P.Chowdhury S.P.Bayen	Chemical Science Review Letter ISSN: 2278-6783 https://chesci.com/wp-content/uploads/2016/12/V2i5_11_CS032043092.pdf	2 (5)	332-341
62	2013	Synthesis of poly[2-(methacryloyloxy)-ethyl trimethyl ammonium chloride]/Silicon dioxide	P.Chowdhury , S.P.Bayen, P. Mondal, S.K.Saha	Journal of Polymeric Materials ISSN: 0973-8622(print);0976-3449(online) https://www.proquest.com/docvie	30 (3)	239-248

		nanopowder composite: Study of its anion Selectivity, Biocompatibility and Antibacterial activity		w/1514161172?sourcetype=Scholarly%20Journals		
63	2014	Ultrasound assisted green synthesis of poly(vinyl alcohol) capped silver nanoparticles for the study of its antifilarial efficacy	S.K.Saha, P.Chowdhury , P.Saini, S.P.Sinha Babu	Applied Surface Science ISSN: 0169-4332 https://doi.org/10.1016/j.apsusc.2013.10.085	288	625-632
64	2014	Biocompatibility of a sonochemically synthesized poly(N- isopropyl acrylamide)/silica nanoparticles	S.K.Saha; S.Das; P.Chowdhury ; S.K.Saha	R.Sc. Advance ISSN: 2046-02069 https://doi.org/10.1039/C3RA46301J	4	14457- 14467
65	2014	Selective extraction of Cr(III) by aniline immobilized silica gel	S.P.Bayen P.Chowdhury	Journal of Indian Chemical Society ISSN: 0019-4522	91	1227- 1235
66	2014	Design and green synthesis of polymer inspired nanoparticles for the evaluation of their antimicrobial and antifilarial efficiency	B.P.Roy, S.Mukherjee, N.Mukherjee, P.Chowdhury , S.P.Sinha Babu	R.Sc. Advance ISSN: 2046-02069 https://doi.org/10.1039/C4RA03732D	4	34487- 34493
67	2015	Synthesis of chromatographic material by immobilization of thioacetamide onto silica gel	S.P.Bayen P.Chowdhury	J. Environ. Chem. Eng. ISSN: 2213-3437 https://doi.org/10.1016/j.jece.2014.11.010	3	70-78
68	2016	Carbohydrate polymer inspired silver nanoparticles for filaricidal and mosquitocidal activities: A comprehensive view	S.K.Saha, P.Roy, P.Saini, M.K.Mandal, P.Chowdhury , S.P.Sinha Babu	Carbohydrate Polymer ISSN: 0144-8617 https://doi.org/10.1016/j.carbpol.2015.11.007	137	390-401

69	2016	Evidence of reactive oxygen species (ROS) mediated apoptosis in <i>Setaria Cervi</i> induced by green silver nanoparticles from <i>acacia auriculiformis</i> at a very low dose	P.Saini, S.K.Saha, P.Roy, P.Chowdhury , S.P.Sinha Babu	Experimental Parasitology ISSN: 0014-4894 https://doi.org/10.1016/j.exppara.2015.11.004	160	39-48
70	2016	Design and sonochemical synthesis of water-soluble fluorescent silver nanocluster for Hg ²⁺ sensing	S.P.Bayen, M.K.Mondal, S.Naaz, S.K.Mondal, P.Chowdhury	J. Environ. Chem. Eng. ISSN: 2213-3437 https://doi.org/10.1016/j.jece.2016.01.014	4	1110-1116
71	2016	Selective reductive technique (SRT): A robust method to synthesize bioactive Ag/Au doped grapheme oxide	M.K.Mondal, P.P.Banerjee, S.K.Saha, P.Chowdhury , A.Sengupta, A.Bandyopadhyay, S. Bhattacharya, A.Chattopadhyay	Materials & Design ISSN: 0264-1275 https://doi.org/10.1016/j.matdes.2016.04.017	102	186-195
72	2017	Development of chitosan based gold nanomaterials as an efficient antifilarial agent: A mechanistic approach	Swadhin K. Saha, Priya Roy, Malay K Mondal, Debiprosad Roy, Prajna Gayen, Pranesh Chowdhury , Santi P. Sinha Babu	Carbohydrate Polymer ISSN: 0144-8617 https://doi.org/10.1016/j.carbpol.2016.11.047	157	1666-1676
73	2017	Sunlight and ultrasound assisted synthesis of photoluminescent silver nanocluster: a unique 'knock out' sensor for thiophilic metal ions.	S.Naaz, P.Chowdhury	Sensor and Actuator B ISSN: 0925-4005 http://dx.doi.org/10.1016/j.snb.2016.10.116	241	840-848
74	2017	Cytotoxic and mutagenic effects of <i>Thuja occidentalis</i> mediated silvernanoparticles on human peripheral blood lymphocytes	A. Bandyopadhyay, P. P. Banerjee, P. Shaw, M. K. Mondal, V. Das, P.Chowdhury , N. Karak, S.Bhattacharya, A.	Materials Focus (MAT) ISSN: 2169-429X (Print) EISSN: 2169-4303 (Online) https://doi.org/10.1166/mat.2017.1405	6	290-296

			Chattopadhyay			
75	2017	Design and synthesis of reduced graphene oxide based supramolecular scaffold: A benign microbial resistant network for enzyme immobilization and cell growth.	M.K.Mondal, S. Mukherjee, S. K. Saha, P.Chowdhury , Santi P. Sinha Babu	Materials Science & Engineering C ISSN: 0928-4931 https://doi.org/10.1016/j.msec.2017.02.136	75	1168-1177
76	2017	Synthesis and characterization of polyaniline based materials: their biological relevance	S. Mandal S.K.Saha P.Chowdhury	International Journal of Current Microbiology and Applied Sciences ISSN:2319-7692(Print), ISSN:2319-7706 (Online) DOI: 10.20546/ijcmas.2017.605.258 https://www.ijcmas.com/abstractview.php?ID=2498&vol=6-5-2017&SNo=258	6	2309-2321
77	2018	Tenfold enhancement of fluorescence quantum yield of water soluble silver nanoclusters by incorporation of 3-aminophenyl boronic acid: utilized for nanomolar level glucose sensing and precise determination of blood glucose level	S.P.Bayen, M.K.Mondal, S.Naaz, S.K.Mondal, S. Poddar, S.K.Saha, P.Chowdhury	Sensor and Actuator B ISSN: 0925-4005 https://doi.org/10.1016/j.snb.2017.07.143	255	332-340
78	2018	Exploration of antifilarial activity of gold nanoparticle against human and bovine filarial parasites: A nanomedicinal mechanistic approach	Priya Roy, Swadhin K. Saha, Prajna Gayen, Pranesh Chowdhury, Santi P. Sinha Babu	Colloids and Surfaces B: Biointerfaces ISSN: 0927-7765 https://doi.org/10.1016/j.colsurfb.2017.10.057	161	236-243
79	2018	Chitosan biopolymer functionalized gold nanoparticles with controlled cytotoxicity	P. Chowdhury, B. Roy, N. Mukherjee, S. Mukherjee, N. Joardar, M. K.	Advanced Composites and Hybrid Materials ISSN: 2522-0128 (print) 2522-	1 (3)	577-590

		and improved antifilarial activity	Mondal, D. Roy, S. P. Sinha Babu	0136 (electronic) https://doi.org/10.1007/s42114-018-0040-7		
80	2018	Silicon Quantum Dot-Based Fluorescent probe: Synthesis, Characterization and recognition of thiocyanate in Human Blood	D.Roy, K. Majhi, M.K. Mondal, S. K. Saha, S. Sinha P.Chowdhury	ACS OMEGA ISSN: 2470-1343 https://doi.org/10.1021/acsomega.8b00844	3	7613-7620
81	2018	Free and Bound water in Lactose Mixed with Ultra High Dilution of Sulfur, Sodium Chloride and Ethanol as revealed by Thermo-gravimetry	A. Konar, T. Sarkar, N. C. Sukul, P. Chowdhury , S.P.Bayen and A. Sukul	Environmental and Ecology ISSN: 0970-0420 http://www.environmentandecology.com	36 (3)	897-900
82	2018	Designed functionalization of reduced graphene oxide for sorption of Cr(VI) over a wide pH range: a theoretical and experimental perspective	M. K. Mondal, D. Roy, P. Chowdhury *	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) https://doi.org/10.1039/C8NJ03794A	42	16960 — 16971
83	2019	Synthesis of water-soluble conjugated polymer, poly(N-3-sulfopropylaniline) and the study of its glucose sensing property	Sumana Pal & Debiprasad Roy & Maloy Kr. Mondal and Pranesh Chowdhury*	Journal of Polymer Research ISSN: 1022-9760 ISSN(Online): 1572-8935 https://doi.org/10.1007/s10965-018-1691-3	26	31-40
84	2019	Terephthalaldehyde conjugated chitosan hydrogel: Synthesis and characterization for biomedical application	Sumana Pal, Debiprasad Roy and Pranesh Chowdhury	Proceedings of the International conference on Emerging Technologies for Sustainable Development (ICETSD '19), Organized by GCELT, Kolkata	ICE TS D '19	44-47
85	2019	Facile synthesis of polyacrylate directed silver nanoparticles for pH sensing through	P.Chowdhury , A. Hazra, M. K. Mondal, B. Roy, D.Roy, S. P. Bayen,	Journal of Macromolecular Science, Part A. Pure and Applied Chemistry	56	773-780

		naked eye	S. Pal	ISSN: 1060-1325 https://doi.org/10.1080/10601325.2019.1607376		
86	2019	Designed Synthesis of Dual Emitting Silicon Quantum Dots for Cell Imaging: Direct Labeling of Alpha 2-HS- Glycoprotein	D.Roy, C. Fouzder, A.Mukhuty, S. Pal, M. K. Mondal, R.Kundu, P.Chowdhury	Bioconjugate Chemistry ISSN:1043-1802 https://doi.org/10.1021/acs.biocnchem.9b00279	30	1575-1583
87	2019	Cytotoxic effect of graphene oxide-functionalized gold nanoparticles in human breast cancer cell lines	P. P. Banerjee, A.Bandyopadhyay, P. Mondal, M. K. Mondal, P. Chowdhury , A.Chakraborty, M.Sudarshan, S. Bhattacharya, A. Chattopadhyay	Nucleus ISSN: 0976-7975 https://doi.org/10.1007/s13237-019-00284-1	62	243-250 Springer
88	2019	Synthesis of smart graphene quantum dots: A benign biomaterial for prominent intracellular imaging and improvement of drug efficacy	M. K. Mondal, S. Mukherjee, N.Joardar, D.Roy, P.Chowdhury	Applied Surface Science ISSN : 0169-4332 https://doi.org/10.1016/j.apsusc.2019.143562	495	143562-143577
89	2020	Cytotoxic effect of green synthesized silver nanoparticles in MCF7 and MDA-MB-231 human breast cancer cells in vitro	A.Bandyopadhyay, B. Roy, P. Shaw, P. Mondal, M. K. Mondal, P. Chowdhury , S.Bhattacharya, A. Chattopadhyay	Nucleus ISSN: 0976-7975 https://doi.org/10.1007/s13237-019-00305-z	63	191-202
90	2021	Polymer Anchored Gold Nanoparticles: Synthesis, Characterization and Antimicrobial Activities	P.Chowdhury* , B. Roy, S.Mukherjee, N. Mukherjee, N.Joardar, D.Roy, S. Chowdhury, S. P. Sinha Babu	Nanoscience & Nanotechnology-Asia ISSN: 2210-6812 (Print) ISSN: 2210-6820 (online) https://doi.org/10.2174/2210681210666200128155244	11	119-131
91	2020	Polyaniline as an On-Off- On bright green	S. Pal , D. Roy , N. Bar , S.Chowdhury ,	Polymer	191	122292

		fluorescent probe: Solvent directed synthesis, characterization and recognition of chromium through the inner filter effect	P.Chowdhur*	ISSN: 0032-3861 https://doi.org/10.1016/j.polymer.2020.122292		
92	2021	Multi-emissive biocompatible silicon quantum dots: Synthesis, characterization, intercellular imaging and improvement of two fold drug efficacy	D.Roy, A.Mukhuty, C.Fouzder, N.Bar S.Chowdhury , R.Kundu, P. Chowdhury*	Dyes and Pigments ISSN: 0143-7208 https://doi.org/10.1016/j.dyepig.2020.109004	186	109004
93	2021	Hydrogels of Acryloyl guar gam-g-(acrylic acid-co-3 sulfopropylacrylate) for high-performance adsorption and release of gentamicin sulphate	R. Bhattachryya P.Chowdhur*	Journal of Polymer Research ISSN: 1022-9760 ISSN(Online): 1572-8935 https://doi.org/10.1007/s10965-021-02633-8	28	286-304
94	2021	Photochromism of dye containing Schiff base-metal complex: A revisit through spectro-kinetics, thermodynamic and theoretical analyses for the design of a molecular logic gate	N. Bar, P. Chowdhury* , D. Roy, S. Adhikari, S. Mondal, G. k. Das, S. K. Chandra	Journal of Photochemistry & Photobiology, A: Chemistry ISSN: 18732666, 10106030 https://doi.org/10.1016/j.iphotochem.2021.113505	420	113505-113516
95	2022	Polymer based ON-OFF-ON fluorescent logic gate: Synthesis, characterization and understanding	D. Biswas, N. Bar, S. Pal, S.Mazumder, A. Ray, S.Chowdhury, G.K. Das, P.Chowdhur*	Journal of Molecular Structure ISSN: 0022-2860 https://doi.org/10.1016/j.molstruc.2021.132166	125 2	132166
96	2022	Synthesis of novel water-soluble chitosan-based “off-on” fluorescent probes for successive recognitions of Fe ³⁺ and F ⁻ ions	S.K.Mazumder, D. Roy, S. Pal, N. Bar, A. Ray, D.Biswas, S.Chowdhury, P.Chowdhur*	Iranian Polymer Journal Electronic ISSN: 1735-5265 Print ISSN: 1026-1265 https://doi.org/10.1007/s13726-	31	425-439

				021-01013-9		
97	2022	Synthesis of an advanced metal-guided photochromic system for molecular keypad lock: detailed experimental findings and theoretical understanding	N.Bar, P.Chowdhury* , D. Biswas, A. Ray, G. K.Das	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) https://doi.org/10.1039/D1NJ06158E	46	8284-8302
98	2022	Multi-emissive silicon quantum dots: synthesis, characteristics and their biological & analytical relevance	Pranesh Chowdhury*, Debiprasad Roy	Bulletin of Materials Science ISSN: 0250-4707 (print); 0973-7669 (web) https://doi.org/10.1007/s12034-022-02706-4	45	143
99	2022	A brief review on advances in rhodamine B based chromic materials and their prospects	N. Bar, P. Chowdhury*	ACS Applied Electronic Materials ISSN: 2637-6113 https://doi.org/10.1021/acsaelm.2c00107	4 (8)	3749–3771
100	2022	Metal-guided photochromism: Progress and Prospects	Pranesh Chowdhury*, Nandagopal Bar	Advances in Materials Science Research Nova Science Publishers ISSN: 2159-1997 .	53	229
101	2009	Frequency-Dependent Resistivity and Magnetoresistivity of Iodine Doped Conducting Polyaniline	G. Chakraborty, A. Sarkar, P. Ghosh, A.K. Meikap, P. Chowdhury	Polymer Engineering and Science ISSN: 15482634, 00323888 https://doi.org/10.1002/pen.21332	49	910-915
102	2023	Improved version of oligo(2,4-diaminotoluene): synthesis, characterization, understanding, and application	S. Pal, P. Chowdhury* , N. Bar, A. Ray, D. Biswas & G. K. Das	Journal of Macromolecular Science, Part A: Pure And Applied Chemistry ISSN: (Print) (Online) 1060-1325 https://doi.org/10.1080/10601325.2023.2230271	60	568-579
103	2023	Revaluation of copper(II)-Schiff base complex for sensing of D-penicillamine and	A. Ray , N.Bar , P. Chowdhury* , D. Biswas , K. Ghosh , A. Mandi , G. K.	Polyhedron https://doi.org/10.1016/j.poly.2023.116563	243	116563

		development of a molecular logic gate: A combined approach	Das			
104	2023	Revisit of dye-anchored poly(vinyl alcohol) through strong experimental evidence and theoretical understanding for the development of a polymeric IMPLICATION logic gate	D. Biswas , P.Chowdhury* , N. Bar , A. Ray , G. K. Das	Dyes and Pigments https://doi.org/10.1016/j.dyepig.2023.111559	219	111559
105	2024	The photodynamic approach to the molecular-level origin of metal-guided photochromism and ultrafast absorption spectroscopy	N. Bar , P. Chowdhury* , G. K. Das	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy https://doi.org/10.1016/j.saa.2024.124031	312	124031
106	2024	Schiff base ligand of p-Toluidine and Salicylaldehyde: Synthesis, characterization and metal ion sensing	P. Tudu, S. Dan and P.Chowdhury	Journal of Research in Chemistry https://doi.org/10.22271/reschem.2024.v5.i1a.116	5	36-39
107	2024	Rhodamine 6G salicylaldehyde hydrazone-Zn complex: Synthesis, characterization, photochromism, understanding, and application	A. Mandi, N.Bar, D.Biswas, A. Ray, K.Ghosh, D.Mondal, G. K. Das, P. Chowdhury	Journal of Luminescence https://doi.org/10.1016/j.jlumin.2024.120611	271	120611
108	2021	Chitosan gold nanoparticles trigger apoptosis in human breast cancer cells in vitro	A.Bandyopadhyay, B. Roy, P. Shaw, P. Mondal, M. K. Mondal, P. Chowdhury , S Bhattacharya, A.Chattopadhyay	Nucleus https://doi.org/10.1007/s13237-020-00328-x	64	79-92
109	2024	Synthesis of a new Schiff base probe:	Keya Ghosh, Pranesh	Journal of Chemical Sciences	In pre	In press

		crystal structure, spectral properties, understanding and prospect	Chowdhury		ss	
110	2024	Experimental and theoretical studies of the optical properties of a pyrene dye-attached polymer for the development of thermal and chemical sensors	Debrupa Biswas, Pranesh Chowdhury	Polymer Engineering & Science	In press	In press
111	2024	Henry Moseley: Exploration of the legacy and impact on Periodic Table	Nandagopal Bar, Pranesh Chowdhury	Resonance	In press	In press

11. List of Book chapters / Books written

Sl. Number	Title	Name of the Book	Editor/Writer	Publisher
1	Role of polymers in the removal and recovery of Cr(VI)	Chromium (VI) Handbook ISBN: 0203487966, 9780203487969 Chapter: 5	Pranesh Chowdhury	CRC Press Editors : Jacques Guertin James A. Jacobs Cynthia p. Avakian 28 Dec 2004
2	Metal-Guided Photochromism: Progress and Prospects	Advances in Materials Science Research Volume 53 ISBN: 979-8-88697-080-7 Chapter: 8	Pranesh Chowdhury & Nandagopal Bar	Nova Science Publishers Editor: Maryann C. Wythers August 2022 Newyork, 11788, USA

12. List of Publications in Conference Proceedings

- 1 "Use of sulphur bearing rubber accelerators for curing polyacrylic rubber in presence of metal oxides". P. Chowdhury and M. Chakravorti, Annual Convention of Chemists, Kolkata, F 10, December, 1999.
- 2 "Effect of chain length of the alkyl group of alkyl methacrylate on graft polymerization onto polyvinyl alcohol using ceric ion". P.Chowdhury, National Seminar on Polymer Research in Academy, Industry and R & D Organization, Kolkata, p.53, June, 2000.
- 3 "Synthesis and characterization of methyl methacrylate grafted from acacia gum". P.Chowdhury, National Conference on High Performance Polymer and its application. 7th December, 2002, Kolkata.
- 4 "Free radical graft polymerization of methyl methacrylate from polyvinyl alcohol". P.Chowdhury and Md. A. Ali, E8, 42nd Annual Convention of Chemist, February 9, 2006, Visva-Bharati, Santiniketan.
- 5 "Potassium iodate initiated polymerization of aniline" P.Chowdhury and B.Saha, E8, 42nd Annual Convention of Chemist, February 9, 2006. Visva-Bharati, Santiniketan.
- 6 "Synthesis and Characterization of Bio-degradable Polymers" P. Chowdhury, National Seminar on Polymer Waste Management, January 14-15, 2007, Department of Chemistry, Visva-Bharati, Santiniketan.
- 7 "Role of polymers for the selective extraction and separation of metal ions". P.Chowdhury, P.Mondal and K.Roy, Recent Trends in Polymer Science and Technology (Poly-2008), October 06, 2008, Gowahati, Asam.
- 8 "Synthesis of polyaniline nanoparticles grafted silica gel and its Cr(VI) extraction behavior". P.Chowdhury, P.Mondal and K.Roy, National Seminar on Emerging Trends in Polymer Science and Technology (POLY-2009), October 8-10, 2009, Saurashtra University, Gujarat.
- 9 "Synthesis and characterization of polymer nano particles", P. Chowdhury, Current Trends in Chemistry-1, March 6-7, 2010, Department of Chemistry, Visva-Bharati, Santiniketan.
- 10 "Role of polymers on global climate change". P.Chowdhury, P.Mondal and K.Roy, International Conference on Global Climate Change, February 19-21, 2010, p. 62, CES and ISERC, Visva-Bharati, Santiniketan.
- 11 "Role of polymers: Selective extraction and separation of chromium". P.Chowdhury, P.Mondal and K.Roy, National Seminar on "Chemistry Today", March 18-20, 2010, Department of Chemistry, University of Burdwan, Burdwan.
- 12 "The problem of Cr(VI) contamination and its remedial measures". P. Chowdhury, National Seminar on "The problem of fluoride, arsenic and heavy metals contamination in drinking water in the Ganga Plan", September 21-22, 2010, Department of Chemistry, T. M. Bhagalpur University, Bhagalpur.
- 13 "Modern Concept of Oxidation Number". P. Chowdhury, In-service Course for Post Graduate Teachers in Chemistry", Kendriya Vidyalaya, December 29, 2010, Fort William, Kolkata
- 14 "Synthesis, Characterization and application of polymer nanoparticle grafted silica gel". P. Chowdhury, P. Mondal and K. Roy, National Seminar on "Current Trends in Polymer Science and Technology-Poly-2011", January 28-29, 2011, Department of Chemistry, Jadavpur University, Kolkata-700032.

- 15 "Polymer Science and Nature". P. Chowdhury, National Seminar on Science and Nature: Tagores's vision and its relevance, 12-13 March, 2011, Siksha-Bhavana, Visva-Bharati
- 16 "Impact of Chemistry on our Lives", P. Chowdhury, One-day Seminar on International Year of Chemistry-2011, March 25, 2011, Department of Chemistry, Visva-Bharati, Santiniketan.
- 17 "Quaternization of poly(4-vinyl pyridine) for pre-concentration and separation of Cr(VI) from environmental samples", National Seminar on Water Pollution & its Recent Challenges (NSWPRC 2011), Department of Chemistry, S.K.M. University, Dumka, April 29-30, 2011.
- 18 "Synthesis of polymer transition metal complexes for solid phase extraction of Cr(VI)", National Seminar on Inorganic Chemistry-2011 (NSIC-2011), Department of chemistry, Jadavpur University, July 8-9, 2011.
- 19 "Quantitative immobilization of thioacetamide onto inorganic polymers for simultaneous detection and separation of mercuric ions", National Seminar on Recent Advances in Polymer Science and Technology, Department of Chemistry, North Bengal University & Siliguri Institute of Technology, November 2-4, 2012, p.33.
- 20 "Design and synthesis of bioactive poly(vinyl alcohol) capped silver nanoparticles", National Seminar on Recent Advances in Polymer Science and Technology, Department of Chemistry, North Bengal University & Siliguri Institute of Technology, November 2-4, 2012, p.50.
- 21 "Sonochemical synthesis of biocompatible poly(N-isopropyl acrylamide)/silica nanocomposite", National Seminar on Recent Advances in Polymer Science and Technology, Department of Chemistry, North Bengal University & Siliguri Institute of Technology, November 2-4, 2012, p.52.
- 22 "Recent progress in polymer nanoparticles and nanocomposites", National Seminar on Recent Advances in Polymer Science and Technology, Department of Chemistry, North Bengal University & Siliguri Institute of Technology, November 2-4, 2012, p.12.
- 23 "Aniline/cupric ion complex on silica surface: synthesis, characterization and analytical application", S.P.Bayen and P. Chowdhury, National conference on Fundamental Applied Chemistry (NACFAC-2013), Department of Chemistry, Dhirajlal Gandhi College of Technology, Salem-636 309, 4th October, 2013.
- 24 "Sonochemical synthesis of poly(vinyl alcohol) capped silver nanoparticles and evaluation of its anti-filarial activity", S.K.Saha and P.Chowdhury, 5th youth Congress, December 6-9, 2013, Santiniketan, W.B.
- 25 "Tyrosine controlled green synthesis of bioactive nano particles in presence of water soluble biocompatible polymers", B.Roy, S.Mukherjee, N.Mukherjee, P.Chowdhury, S.P.Sinha Babu, 5th youth Congress, December 6-9, 2013, Santiniketan, W.B.
- 26 "Synthesis and characterization of polymer inspired grapheme", M.K.Mondal and P.Chowdhury, 5th youth Congress, December 6-9, 2013, Santiniketan, W.B.
- 27 "Adsorption behavior and recycling of Cr(III) by the synthesized aniline/silica composite", S.P.Bayen and P.Chowdhury, 5th youth Congress, December 6-9, 2013, Santiniketan, W.B.
- 28 "Sonochemical Synthesis of water-soluble fluorescent silver nanocluster and Hg²⁺ sensing", S.P.Bayen and P. Chowdhury; National Conference on recent trends in Chemical Sciences, Raipur-492010, 2014, Chattisgarh

- 29 “Studies on fluorescence properties of polymer inspired grapheme oxide nanoparticles”, Malay Kumar Mondal and Pranesh Chowdhury; P-CN-06, International Conference on Functional Materials, Materials Science Centre, IIT, Kgaragpur, February 5-7, P.236, 2014.
- 30 “Quantitative immobilization of thioacetamide onto silica gel for easy detection and separation of mercuric ion”, O-SA-05, S.P.Bayen and P. Chowdhury; International Conference on Functional Materials, Materials Science Centre, IIT, Kgaragpur, February 5-7, P.183, 2014.
- 31 “Polymer inspired silver nanoparticles: A potential antifilarial agent”, O-BIO-08, Swadhin Kr. Saha, Prasanta Saini, Santi P. Sinha Babu and Pranesh Chowdhury, International Conference on Functional Materials, Materials Science Centre, IIT, Kgaragpur, February 5-7, P.59, 2014.
- 32 “Synthesis of poly(N-isopropyl acrylamide)/Mesoporous silica nanocomposite”, S.K.Saha, M.K.Mondal and P. Chowdhury, National seminar on Recent Advances in Chemistry, p-13, March 9, 2014, Santiniketan.
- 33 “Synthesis of PMETAC/SDNP composite: Study of its anion selectivity”, S.P.Bayen, M.K.Mondal, S.K.Saha and P.Chowdhury, National Seminar on Recent Advances in Chemistry, p-14, March 9, 2014, Santiniketan.
- 34 “Polymer inspired Nanoparticles and their Biological Relevance”, P. Chowdhury, National Seminar on Recent Advances in Chemistry, P.10, 25-26 February, 2016, T.M. Bhagalpur University, Bhagalpur.
- 35 “Synthesis of polymer inspired metal nano particles for the study of their biological relevance”, P. Chowdhury, International Conference on Nanocomputing & Nanobiotechnology, P.31, 3-5 October, 2016, Kolkata.
- 36 “Water-soluble conjugated polymer-Poly(N-sulfopropylaniline); Synthesis, characterization and its application”, Sumana Pal, Maloy K. Mondal, Debiprasad Roy, Pranesh Chowdhury; National Symposium on Recent Advances in Chemistry Research (RARC-2018), P.88, 11 March, 2018, Santiniketan.
- 37 “Synthesis of water soluble highly fluorescent silver nanoclusters: An approach towards nanomolar level glucose sensing”, Shyama Prasad Bayen and Pranesh Chowdhury, National Symposium on Recent Advances in Chemistry Research (RARC-2018), P.75, 11 March, 2018, Santiniketan.
- 38 “Silicon quantum dot based fluorescent probe: Synthesis, characterization and application”, Debiprasad Roy, Kousik Majhi, Maloy K. Mondal, Subrata Sinha, Pranesh Chowdhury, National Symposium on Recent Advances in Chemistry Research (RARC-2018), P.29, 11 March, 2018, Santiniketan.
- 39 “Problems and prospects of plastic waste: Polymerization of methyl methacrylate”, Pranesh Chowdhury, Maloy K. Mondal, Debiprosad Roy, Tripti Rani Talukdar; National seminar on waste management of local self government, P.21, 16-17 March 2018, Sriniketan.
- 40 “Photochromism of dye containing Schiff base-metal complex: Spectro-kinetic, thermodynamic and theoretical analyses for the design of a molecular logic gate”, P.7, 28 February - 01 March, 2022, T.M. Bhagalpur University, Bhagalpur.
- 41 “Photochromism of dye containing Schiff base-metal complex: Recent advancements”, Faculty Development Program, Vellore Institute of Technology, March 30th – April 5th, 2022.
- 42 “Metal-guided photochromic system for molecular keypad lock: Experimental findings and theoretical understanding”, International Seminar on Chemistry of the environment and Salvation of Human Civilization; Indian Chemical Society & T.M.B.U., Bhagalpur, Bihar, 3rd-4th February, 2023.

- 43 “Metal-Photoswitch Friendship: Experiments, Understanding and Applications”, International Seminar on Recent Trends in Chemistry for Sustainable Future; Indian Chemical Society & T.M.B.U., Bhagalpur, Bihar, 9th-10th February, 2024.

13. Invited Lectures and Chairmanships at national or international conference / seminar

S. No	Title of Lecture / Academic Session	Title of Conference / Seminar etc	Organized by	Whether international / national
1	Polymer waste and their remedial measures	National Seminar on Polymer Waste Management	Department of Chemistry, Visva-Bharati, Santiniketan January, 14-15, 2007	National Seminar
2	Current Trends in Organo Metallic Chemistry	Current Trends in Chemistry – 1	Visva-Bharati, Santiniketan March 6-7, 2010	National Seminar
3	The problem of chromium contamination in drinking water in the Ganga Plan and its remedial measures	The problem of fluoride, arsenic and heavy metals contamination in drinking water in the Ganga Plan	Department of Chemistry, T. M. Bhagalpur University, Bhagalpur. September 21-22, 2010	National Seminar
4	Modern Concepts of Oxidation Number	Training programme for post graduate teachers in Chemistry	Kendriya Vidyalaya Fort William, Kolkata-21, December 29-30, 2010	National
5	Modern trends in assigning and understanding oxidation number	UGC sponsored refresher course	Department of Chemistry, Visva-Bharati, Santiniketan,	National
6	Recent progress in polymer nanoparticles and nanocomposites	National Seminar on Recent Advances in Polymer Science and Technology,	Department of Chemistry, North Bengal University & Siliguri Institute of Technology, November 2-4, 2012.	National
7	Organic Polymers: Recent advances and its impact on environment	24 th RC in Environmental Science	Department of Environmental Science, Burdwan University January 13, 2016	National
8	Synthesis of polymer inspired metal nano	1 st International Conference on Nanocomputing &	Maulana Abul Kalam Azad University of Technology,	International

	particles for the study of their biological relevance	Nanobiotechnology	formerly west Bengal university of technology, 3 rd -5 rd October, 2016	
9	Chairman of the session	1 st International Conference on Nanocomputing & Nanobiotechnology	Maulana Abul Kalam Azad University of Technology, formerly west Bengal university of technology, 3 rd -5 rd October, 2016	International
10	Synthesis of polymer inspired metal nano particles for the study of their biological relevance	National Seminar on Recent Advances in Chemistry	P.G. Department of Chemistry, T.M. Bhagalpur University, Bhagalpur, 25-26 February, 2016	National
11	Recent advances in polymer science and their impact on society	Departmental Seminar	Department of Chemistry and IQAC, K.C. College, Hetampur, 6 th September, 2017	National
12	“Fundamentals of Research Methodology and Polymer Chemistry”,	State Level Webinar	Department of Chemistry, Durgapur Government College, 31.08.2021	National
13	“Photochromism of dye containing Schiff base-metal complex: Spectro-kinetic, thermodynamic and theoretical analyses”	National Seminar	University Department of Chemistry, T.M.B.U., Bhagalpur, Bihar, 28 February-01 March, 2022	National
14	“Photochromism of dye containing Schiff base-metal complex: Recent advancements”	Faculty Development Program	Vellore Institute of Technology, March 30 th – April 5 th 2022	National
15	“Fluorescent polymers: Synthesis, characterization, understanding and applications”	National Symposium on Smart Polymer Materials	Maulana Abul Kalam Azad University of Technology, West Bengal, 18.11.2022-19.11.2022	National
16	Metal-guided photochromism: spectrokinetic, thermodynamic and theoretical analysis	5 th Regional Science & Technology Congress, 2022-23	The University of Burdwan and Department of science & Technology and Biotechnology, Government of West Bengal, 6-7 January, 2023	National
17	Metal-guided photochromic system for molecular keypad lock: Experimental	International Seminar on Chemistry of the environment and Salvation	Indian Chemical Society & T.M.B.U., Bhagalpur, Bihar	International

	findings and theoretical understanding	of Human Civilization	3 rd -4 th February, 2023	
18	Excited state intra-molecular proton transfer in Schiff base metal complexes: Mechanistic aspects & Future prospects	Seminar cum Workshop	Durgapur Government College; March 27, 2023	National
19	Fluorescent Polymers	Symposium on Polymer science 2023	IISER Kolkata & The Society for polymer Science, India, November 17-18, 2023	National
20	Metal-guided photoswitching: Experiments, Understanding and Prospects	6 th Regional Science and Technology Congress (Region Three), 2023-24	Durgapur Government College & Department of Science & Technology and Biotechnology, 9 th -10 th January, 2024.	Regional
21	Metal-Photoswitch Friendship: Experiments, Understanding and Applications	International Seminar on Recent Trends in Chemistry for Sustainable Future	Indian Chemical Society & T.M.B.U., Bhagalpur, Bihar, 9 th -10 th February, 2024.	International
22	Dye-anchored polymers: synthesis, characterization, understanding and the development of molecular machines	National Conference on Innovative Polymeric Materials and Different Polymeric Products	Jointly organized by Prof. Sukumar Maiti Polymer Award Foundation, Kolkata & Indian Institute of Packaging, Kolkata Venue: Indian Institute of Packaging, Kolkata, December 6-7, 2024.	National
23	Session Judge	7 th Regional Science and Technology Congress (Region Three), 2024-25	Jointly organized by Rampurhat College and Department of Science & Technology and Biotechnology, 10 th -11 th January, 2025	Regional

14. Research Project Completed / on going

S.	Title	Agency	Project memo number	Period	Grant / Amount (Rs.)
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No					Lakh)
1	Studies on removal and recovery of Cr(VI) from aqueous solutions	Visva-Bharati University	G/R-6.12 / 1504	2007-2008	0.01560
2	Studies on solid phase extraction of metal ions and their separation	Visva-Bharati University	G/R-6.12 / 1107	2009-2010	0.01480
3	Development of high performance ion-exchange sorbents based on quaternized polyaniline for selective extraction and recovery of chromium(VI) for selective extraction of Cr(VI)	UGC, New Delhi	F.No.32-305/2006 (SR)	2007-2009	0.65
4	Synthesis of high performance polymer nano particles and composites for selective and effective adsorption-desorption of chromium (VI)	UGC, New Delhi	F. No. 37-569/2009 (SR)	2010-2011	02.00
5	Development of high performance ion exchange resin based on quaternized polymers for selective extraction and recovery of chromium from industrial wastewater	CSIR, New Delhi	No.01(2392)/10/EMR-II	2010-2013	15.10
6	Development of new biocompatible hybrid materials based on grafting organic polymers onto inorganic nano particles	CSIR, New Delhi	No.01(2444)/10/EMR-II	2010-2013	16.30
7	Design, synthesis and characterization of new biocompatible hybrid materials based on grafting organic polymers onto inorganic nano particles	DST, New Delhi	No.SR/S3/ME/0018/2010-(G)	2012-2016	35.20
8	Design and synthesis of water soluble conjugate polymer for colorimetric, fluorescent and photochemical probes	CSIR, New Delhi	No.02(0331)/17/EMR-II	2017-2020	26.3
9	Designed synthesis of ultra-bright water-soluble conjugate polymers to explore its colorimetric, fluorescent and photothermal sensing property	SERB, DST, New Delhi	No.EMR/2017/000963	2018-2021	39.5

10	Natural polymer-g-co/ter-polymer interpenetrating polymer network hydrogels for drug delivery applications: synthesis and characterization	UGC, New Delhi	F.4.2/2006/BSR/EN/17-18/0031	2018-2021	18.62
11	Water-soluble fluorescent polymer: Synthesis, characterization and bio-analytical application	SERB, New Delhi	SERB/F/11707/2018-2019	2018-2020	19.2
12	Dye-conjugated colour-tunable fluorescent polymers: Designed synthesis and understanding for optical sensors, molecular logic gates and light-emitting devices	CSIR, New Delhi	No.22/0873/23/EMR-II	2023-2026	20.0

15. List of Ph. D. students

S. No	Name of the student (Registration Number)	Title of the thesis	Year of admission/award	Present Status
1	Dr. Kalyan Adhikari	Studies on groundwater of the areas in and around Durgapur with special emphasis on the role of industrial discharges on groundwater pollution	1999; Awarded Ph.D. Degree on 29.4.2003; Memo No. R.Ph.D./Award/ (A) / 19 / 1 (55) 9.6.2003	Professor NIT, Durgapur
2	Dr. Bipasa Saha	Studies on electrically conducting polyaniline doped with different acids	2003; Awarded Ph. D. degree on 12.5.2009	
3	Dr. Tarakeswar Kundu (NIT/PhD_Chem 4/00012)	Studies on graft polymerization of vinyl monomers onto guar gum in presence of metal ions	2004; Awarded Ph. D. degree on 17.1.2008	Chemist DVC, Durgapur
4	Dr. Sudipta Samui (NIT/PhD_Chem 4/00012)	Studies on ceric ion initiated graft polymerization of vinyl monomers onto natural polymers	2004; Awarded Ph. D. degree on 17.1.2008 Memo No. G / R.6.7/ 690/2003-2004, dated 2.5.2003	Chemist, DVC, Durgapur
5	Dr. Md. Ansar Ali	Studies on graft polymerization of vinyl monomers onto polyvinyl alcohol in presence of transition	2005; Awarded Ph. D. degree on 26.2.2010	Associate Professor Durgapur

		metal ions	Memo No. G / R.6.7/ 282/2004-2005; 6.4.2004	Government College
6	Dr. Susanta Pandit (VB-1115 of 2007-08) adrijapandit@gmail.com	Extraction chromatographic of heavy and toxic metal ions with cross-linked poly acrylic acid	2007; Awarded Ph. D. degree on 20.2.2011; Memo No. Exam. Ph.D./2010-2011; 18.3.2011 Memo No. 6/G--6.7/616/2006-2007; 5.3.2007	School Teacher
7	Dr. Kousik Roy	Physico-chemical studies on adsorption-desorption behavior of chromium(VI) onto some polymer surfaces	2007; Awarded Ph.D. degree on 31.01.2013	School Teacher
8	Dr. Abhijit Mikherjee	Studies on metal ion retention properties of poy (vinyl alcohol) based graft copolymer hydrogels	2008; Awarded Ph.D. degree on 18.04.2013; Memo No. Exam. Ph.D./2012-2013; 30.4.2013 Memo No. G / R.6.7/74//2006-2007; 3.8.2007	School Teacher
9	Dr. Biswajit Singha	Studies on metal ion retention and recovery behavior of chemically synthesized polyvinyl alcohol based graft copolymers	2008; Awarded Ph.D. degree on 2013 Memo No. G / R.6.7/1371//2007-2008	School Teacher
10	Dr. Palash Mandal	Studies on metal ion retention properties of some chemically synthesized polymers and composites	2009; Awarded Ph.D. degree on 2013	Associate Professor Vivekananda College, Bardhaman
11	Dr. Shyama Prasad Bayen	Studies on Solid Phase Extraction of Metal Ions and their Separation with Chemically Synthesized Hybrid Materials	2010; Awarded Ph.D. degree on 2015 ; Memo No. Exam. Ph.D./2015-16; 04.12.2015	School Teacher
12	Dr. Swadhin Kumar Saha	Synthesis of organic-inorganic nanocomposites and their biological relevance	2011; Awarded Ph.D. degree on 2016 Memo No. Exam. Ph.D./2016-17; 21.11.2016	Assistant Professor, Kazi Nazrul University
13	Dr. Sudarshan Debnath (VB-1849 of 2013-	Synthesis and mechanistic aspects of various heterocycles of biological significance	2013; Awarded Ph.D. degree on 2017 Memo No. Exam. Ph.D./2019-	

	14)		20; 14.10.2019	
14	Dr. Suniti Malakar (VB-2015 of 2014-15)	Synthesis of sulfonamides and their biological significance	2014; Awarded Ph.D. degree on 2018	
15	Bisnu pada Roy (VB-335 of 2004-05)	Design, synthesis and characterization of new biocompatible hybrid materials based on grafting organic polymers onto inorganic nano particles	2012 Reregistered on 2018	Associate Professor Bishnupur Engineering College
16	Dr. Malay Mondal (VB-1856 of 2013-14)	Graphene Oxide based hybrid materials: Synthesis, characterization and its chemical & biological relevance	2013; Awarded Ph.D. degree on 2019 Exam. Ph.D. /2758	School Teacher
17	Dr. Debiprasad Roy (VB-1579 of 2015-16)	SILICON BASED QUANTUM DOTS: SYNTHESIS, CHARACTERIZATION AND THE STUDY OF THEIR OPTICAL RELEVANCE	2015; Awarded Ph.D. degree on 2022 (Memo No. Exam. Ph.D./2021; 02.02.2022)	
18	Sumana Pal (VB-702 of 2006-07)	WATER-SOLUBLE CONJUGATED POLYMERS: SYNTHESIS, CHARACTERIZATION, AND STUDIES OF THEIR SENSING PROPERTIES	2017; Awarded Ph.D. degree on 29.04.2024 (Ref. No. Exam. Ph.D/00667; Dated 30.10.2023)	School Teacher
19	Nandagopal Bar (VB-1720 of 2018-19)	SYNTHESIS OF METAL-GIUEDD PHOTOCHROMIC MATERIALS: SPECTRO-KINETIC, THERMODYNAMIC AND PHOTODYNAMIC STUDIES AND THEIT PROSPECTS	2018	Pre-Ph.D. lecture delivered on 16.2.2024
20	Debrupa Biswas (VB-2156 of 2019-20)	SYNTHESIS, CHARACTERIZATION AND APPLICATIONS OF POLYMER-FUNCTIONALIZED FLUORESCENT PROBES	31.08.2019	Continuing
21	Arindam Roy (VB-1300 of 2017-18)	RHODAMINE B DYE CONTAINING SCHIFF BASES: SYNTHESIS, OPTICAL PROPERTIES, UNDERSTANDING	31.08.2019	Continuing

		AND APPLICATIONS		
22	KEYA Ghosh (VB-2237 of 2017-18)	SCHIFF BASE CHEMOSENSORS: SYNTHESIS, CHARACTERIZATION, UNDERSTANDING, AND ANALYTICAL RELEVANCE	2021	Continuing
23	Ashok Mandi (VB-2006 of 2021-22)	PHOTOCHROMIC SCHIFF BASE METAL COMPLEXES: SYNTHESIS, CHARACTERIZATION, UNDERSTANDING, AND APPLICATIONS	2021	Continuing
24	Masuma Khatun	Carrying out Course work	2023	Continuing
25	Swarnali Chakraborty	Carrying out Course work	2023	Continuing

16. List of PDF students

S. No	Name of the PDF students	Title	Agency	Project memo number	Period	Grant / Amount Mobilized (Rs. Lakh)
1	Dr. Ruma Bhattacharya Dr.D.S.Kothari Postdoctoral Fellow	Natural polymer-g-co/ter-polymer interpenetrating polymer network hydrogels for drug delivery applications: synthesis and characterization	UGC, New Delhi	F.4.2/2006/BSR/EN/17-18/0031	2018-2021	18.62
2	Dr. Sangita Adhikari National Post-Doctoral Fellow	Water-soluble fluorescent polymer: Synthesis, characterization and bio-analytical application	SERB, New Delhi	SERB/F/11707/2018-2019	2018-2020	19.2

17. List of M.Sc. student completed project

Sl. Number	Year	Name of the student (Registration Number)	Title of the thesis	University
1	2012-2013	Debiswar Murmu	Chemical synthesis and characterization of polyaniline	Visva-Bharati
2	2012-2013	Soumen Saha	Organic-inorganic hybrid (Nano) material: Synthesis and characterization	Visva-Bharati
3	2013-2014	Suman Kumar Mondal	Preparation and characterization of Graphene oxide (GO)	Visva-Bharati
4	2013-2014	Sumana Pal	Preparation and characterization of reduced Graphene Oxide (rGO)	Visva-Bharati
5	2014-2015	Ananya Mukherjee	Silver nanoparticles: Synthesis, characterization and study of its antimicrobial activity	Visva-Bharati
6	2014-2015	Sunandana Mandal	Silver nanoparticles: Synthesis, characterization and study of its antifilarial activity	Visva-Bharati
7	2015-2016	Abhijit Hazra	Chemical synthesis of polyacrylic acid and the study of its properties	Visva-Bharati
8	2015-2016	Ajanta Subba	Synthesis and characterization of poly(ethyl methacrylate)	Visva-Bharati
9	2015-2016	Poulami Saha	Synthesis and characterization of poly(methyl methacrylate)	Visva-Bharati
10	2016-2017	Santanu Majumdar	Water soluble fluorescent Polymers: Its biological and analytical Relevance	Visva-Bharati
11	2016-2017	Sujit Kamilya	Lipoic Acid: A promising materials for the synthesis of fluorescent metal nanoparticles	Visva-Bharati
12	2016-2017	Chirasmitha Medda,	Synthesis and characterization of poly(methyl methacrylate)	Amety University
13	2016-2017	Nandita Banerjee	Chitosan: A promising biopolymer for the synthesis of nanocomposites	Visva-Bharati
14	2017-2018	Sourav Mondal	Water soluble sulfonated polyaniline with strong photoluminescence property in physiological pH environment	Visva-Bharati
15	2017-2018	Subhadip Pramanik	Water soluble fluorescent polymers: synthesis and characterization	Visva-Bharati

16	2017-2018	Triptirani Talukdar	Synthesis and characterization of poly(methyl methacrylate)	Visva-Bharati
17	2017-2018	Rimil Murmu	Fine Tuning of sunlight and ultrasound for the green synthesis of photoluminescent silver nanoclusters	Kalyani University
18	2018-2019	Arindam Ray (VB-1300 of 2017-18)	Synthesis & characterization of Poly (methyl methacrylate)	Visva-Bharati
19	2018-2019	Keya Ghosh (VB-2237 of 2017-2018)	Biopolymer Stabilized Silver Nanoparticles: Synthesis and Characterisation	Visva-Bharati
20	2018-2019	Sumana Roy (VB 1945 Of 2014-15)	"Synthesis and characterization of poly(vinyl alcohol) capped silver nanoparticles"	Visva-Bharati
21	2019-2020	Indranil Maity	Fluorescent polyaniline: synthesize and characterization	Visva-Bharati
22	2019-2020	Prantik Mahata	Copper nano particles: a review	Visva-Bharati
23	2019-2020	Prasenjit Mandal	Thermal analysis of polymers: a review	Visva-Bharati
24	2020-2021	Arnab Roy (VB-1867 of 2019-20)	Fluorescent Schiff Base Metal Complexes : a review	Visva-Bharati
25	2020-2021	Papiya Pal	Synthesis of Water-Soluble Conjugated Polymer & Their Properties	Visva-Bharati
26	2020-2021	Ruma Roy	Solvent Directed synthesis of Polyaniline and its properties	Visva-Bharati
24	2021-2022	Angan Mondal	Agar agar based fluorescent logic gate: Synthesis, characterization, understanding and applications	Visva-Bharati
27	2021-2022	Preyoshi Basu	Polyvinyl alcohol based fluorescent logic gate: Synthesis, characterization, understanding and applications	Visva-Bharati
28	2021-2022	Tapaja Chakraborty	Chitosan based fluorescent logic gate: Synthesis, characterization, understanding and applications	Visva-Bharati
29	2022-2023	Soudip Das	Schiff base ligand of meta-nitroaniline and salicylaldehyde: synthesis, characterization and metal sensing	Visva-Bharati
30	2022-2023	Priyajit Tudu	Schiff base ligand of p-Toluidine and salicylaldehyde:	Visva-Bharati

			synthesis, characterization and metal sensing	
31	2022-2023	Souvik Dan (VB-1242 of 2018-19)	Schiff base ligand from 2-hydroxybenzaldehyde and benzene-1,3-diamine: Synthesis, characterization and metal sensing	Visva-Bharati
32	2023-2024	BITHIKA ROY (VB-O511 OF 2022-23)	Synthesis and Characterization of a Dye Containing Schiff Base Metal System: Recognition of D-Penicillamine	Visva-Bharati
33	2023-2024	SHREYASI ACHARYA (VB-2188 OF 2016-17)	FLUORESCENT POLYMER: SYNTHESIS, CHARACTERIZATION AND DEVELOPMENT OF A LOGIC GATE	Visva-Bharati
34	2023-2024	Shweta Dutta (VB-1507 of 2019-2020)	POLYVINYL ALCOHOL BASED FLUORESCENT POLYMER: SYNTHESIS, CHARACTERIZATION AND APPLICATION	Visva-Bharati