

(I) a) Name of the faculty: Prof. Dr. Aparna De (Principal)



b) Academic qualifications: M.Sc., Ph.D

c) Area of Specialization: Inorganic Chemistry

d) Research interest:

- i) Green Chemistry
- ii) Microwave Chemistry

e) Total no. of publications:

- i) National – 10
- ii) International – 12

f) Total no. of conferences/workshops attended:

- i) National – 15
- ii) International – 3

### Publications of Professor Dr. Aparna De, Principal

Sl. No.	Title with page no.	Journal	ISSN No.
1	Synthesis, Structure and Metal Redox of New VO <sup>3+</sup> and VO <sup>2+</sup> Complexes incorporating Mixed Tridentate – Bidentate Binding, 1994, p 557	<i>J. Chem. Soc. Dalton Trans.</i>	1477-9226
2	Regeneration of Ketones from Oximes in Solid State on Wet Silica Supported Sodium Bismuthate under microwave Irradiation, 1998, p 1345	<i>Synlett</i>	0936-5214
3	Palladium- catalysed Synthesis of 3-substituted Coumarins, 1998, p 766	<i>J. Chem. Res(S)</i>	0308-2342
4	Carbon-13 nmr Chemical Shifts of some Dicoumarols and Benzopyranno dicoumarins, 1998, <b>75</b> , p 526	<i>J. Ind. Chem. Soc.</i>	0019-4522
5	Synthesis of Coumarins in Search of	<i>J. Ind. Chem. Soc.</i>	0019-4522

	Better Nonpeptidic HIV-Protease Inhibitors, 1998, <b>75</b> , p 666		
6	Microwave Enhanced Synthesis of Oximes from Ketones, 1999, <b>76</b> , p 218	<i>J. Ind. Chem. Soc.</i>	0019-4522
7	Microwave Enhanced Synthesis of 1,2-Diketones, 1999, p 246	<i>J. Chem. Res(S)</i>	0308-2342
8	Regeneration of Ketones from Semicarbazones in Solid State on Wet Silica Supported Sodium bismuthate under Microwave Irradiation, 1999, p 320	<i>J. Chem. Res(S)</i>	0308-2342
9	Regeneration of Aldehydes from Bisulphite Addition Products in Solid State using Montmorillonite KSF Clay under Microwave Irradiation , 1999, p 560	<i>J. Chem. Res(S)</i>	0308-2342
10	Application of Microwave Irradiation Techniques for the Syntheses of Cinnamic Acids by Doebner Condensation, 1999, <b>29</b> , p 573	<i>Synth. Commun.</i>	0039-7911
11	Solvent-free Microwave Enhanced Knoevenagel Condensation of Ethyl Cyanoacetate with Aldehydes, 1999, <b>29</b> , 2731	<i>Synth. Commun.</i>	0039-7911
12	Microwave enhanced Esterification of $\alpha,\beta$ -unsaturated Acids, 2000, <b>39B</b> , p 311	<i>Ind. J. Chem.B</i>	0975-0983 0376-4699
13	Microwave enhanced Synthesis of Aromatic Methyl Ethers , 2000, <b>39B</b> , p 387	<i>Ind. J. Chem.B</i>	0975-0983 0376-4699
14	Solid State Regeneration of Ketones from Semicarbazones using Antimony Trichloride under Microwave Irradiation, 2000, <b>30</b> , p 1651	<i>Synth. Commun.</i>	0039-7911
15	Solid State Regeneration of Ketones from Phenylhydrazones using Wet Silica Supported Sodium Bismuthate under Microwave Irradiation, 2001, <b>78</b> , p 721	<i>J. Ind. Chem. Soc.</i>	0019-4522
16	Microwave-Assisted condensation Reactions Exploiting Hexamethylenetetramine as Catalyst under Solvent-free Conditions, 2002, p 180	<i>J. Chem. Res(S)</i>	0308-2342
17	Deoxygenation and Dehydrazonation of Ketoximes and Ketophenylhydrazones by Wet HMT in Solid State under Microwave Conditions, 2003, <b>42B</b> , p 1537	<i>Ind. J. Chem.B</i>	0975-0983 0376-4699
18	Regiospecific Conversion of	<i>J. Ind. Chem. Soc.</i>	0019-4522

	Substituted Cinnamic Acids to Cinnamyl Alcohols, 2003, <b>80</b> , p 923		
19	Cu (II)-mediated Regeneration of Carbonyls from Oximes and Semicarbazones under Solvent-free Microwave Irradiated Conditions, 2004, <b>81</b> , p 79	<i>J. Ind. Chem. Soc.</i>	0019-4522
20	An Eco-friendly Regeneration of Aldehydes exploiting Ammonium Acetate under Microwave Irradiation, 2004, p 237	<i>J. Chem. Res(S)</i>	0308-2342
21	Unusual Regioselectivity in Nucleophilic Addition to $\eta^3$ - $\pi$ -allylpalladium Complexes, 2003, p 96	<i>ARKIVOC</i>	1551-7012 1551-7004
22	Solvent- free Knoevenagel Condensation reactions under Microwave Irradiation Exploiting a New Reagent : Antimony Trichloride, 2005, <b>82</b> , p 81	<i>J. Ind. Chem. Soc.</i>	0019-4522
23	A Greener Approach to Doebner Condensation, 2013, p 27	<i>BRSN VISION</i>	2348-7631
24	'Green Nano' Vision : A Chemical Roadmap of Sustainable Development, 2014, p 61	<i>Academia :GMGC</i>	2348-7054
25	Solid State Regeneration of Aldehydes from Bisulphite Addition Products using Antimony Trichloride, under Microwave Irradiation ,2015, p 16	<i>Academia :GMGC</i>	2348-7054

**Some of the research papers of Dr. Aparna De have been referred in the following books :**

- Microwave Syntheses, Brittany L. Hayes, CEM publishing, USA, 2002.
- Microwave in Organic Syntheses, Andre Loupy, Wiley-VCH, Federal Republic of Germany, 2002,
- Solvent-free Organic Syntheses, K. Tanaka, Wiley-VCH, Federal Republic of Germany, 2002.
- The research work published in *J. Chem. Res. (S)*, 1999, 560 has been included in the **curriculum** of the **Under Graduate Chemistry Experiments ( Greener Approaches)** by the **American Chemical Society**.