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DEPARTMENT OF CHEMISTRY
SCHOOL OF SCIENCES

DATE OF JOINING: 03-07-2020

ADDRESS: Department of Chemistry,
School of Sciences, Netaji Subhas Open
University, Kalyani Regional Centre,
Kalyani, West Bengal, India

WEBSITE:

<https://www.researchgate.net/profile/Sanjay-Roy-2>

https://scholar.google.co.in/citations?user=QH2UH_oAAAAJ&hl=en

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DR. SANJAY ROY

Head & Associate Professor of Chemistry

ACADEMIC QUALIFICATION

M.Sc., Ph.D.

TEACHING EXPERIENCE

1. **Netaji Subhas Open University, Associate Professor of Chemistry**
03-07-2020–till date
2. **Shibpur Dinobundhoo Institution (College), Assistant Professor of Chemistry**
29-04-2010–02-07-2020
3. **Sahapur High School, Birbhum, Assistant Teacher**
16-05-2005-28-04-2010

AWARDS AND FELLOWSHIPS

OUTSTANDING SCIENTIST AWARD

In International Research Awards on Science, Technology and Management, 14 & 15-May-2022 | Chennai, India.

RESEARCH INTERESTS

Solution Chemistry, Thermodynamics, Amino acids, Cyclic Voltammetry, Square Wave Voltammetry, Electrochemical Simulation studies, UV-Visible Spectroscopy, Mass Spectroscopy, DNA interaction, surfactant micelles, anticancer studies.

ADMINISTRATIVE EXPERIENCE

1. Head of the Department of Chemistry, School of Sciences, NSOU, Kolkata from 2021-till date.
2. NSS Programme officer, Shibpur Dinobundhoo Institution (College) from 2018-2020.

UG & PG TEACHING ASSIGNMENTS

UG teaching assignments performed more than 12 years from 2010 to till date.

PG teaching assignments performed for Vidyasagar University in ODL

mode: 2016-2020.

NO. OF CANDIDATES REGISTERED FOR PH.D-

01

MEMBERSHIP OF DIFFERENT COMMITTEES

1. Admission committee member, NSOU, Kolkata from 2021 to till date.
2. Library Committee member, NSOU, Kolkata from 2021 to till date.
- 3.UG (Chemistry)-BOS member, NSOU
4. PG(Chemistry)-BOS member, NSOU
5. Departmental Research Committee Member (DRC), NSOU

MEMBERSHIP OF PROFESSIONAL BODIES

1. Member of **Royal Society of Chemistry**: Since 2021 to till date
2. Editorial Board Member of **World Journal of Pharmacy and Pharmaceutical Sciences**; ISSN No-2278-4357.
3. Editorial Board Member **Oriental Journal of Physical Sciences**; ISSN No- 2456-799X
4. Editorial Board Member **Asian Journal of Pharmaceutical Research**; ISSN No- 2231-5691 (Online); 2231-5683 (Print)
5. Associate Editor **Asian Journal of Pharmacy and Technology**; 2231-5713 (Online) 2231-5705 (Print).
6. Associate Editor **Asian Journal of Research in Chemistry**; 0974-4150 (Online)
0974-4169 (Print)
7. Editorial Board Member & **The Lead Guest Editor in** Insight Chemistry Series by
https://insight.piscomed.com/public/site/pisco_log.png ; PiscoMed Publishing House.

ELIGIBILITY TEST CLEARED (NET/SET/GATE etc.):

Sl. No.	Details
1.	Graduate Aptitude Test for Engineering, 2005
2.	Council of Scientific and Industrial Research (NET) 2008

RESEARCH PROJECTS:

Sl. No.	Name of the Project	Funding Agency	Period	Grant Mobilized	Outcome
1	Discipline Specific Project on Chemistry: on “Measurement of solubility and solvation thermodynamics of pharmaceutically important biomolecules in mixed solvent systems by experimental and theoretical modeling”	Netaji Subhas Open University	(2021-2022) One Year	Rs. 120000/- (One lakh twenty thousand only)	Published two articles.

DETAILS OF SELECTED PUBLICATIONS (RESEARCH PAPERS/REVIEW):

Sl. No.	Title of the paper vol. No., Issue No., Page No,	Publisher	Year of publication	ISSN/ ISBN
1.	The transfer free energetics of l-cysteine in aqueous sodium chloride solutions, Sanjay Roy, 2022, Vol. 96, No. 13, pp. 79–85.	Russian Journal of Physical Chemistry A	2022	ISSN 0036-0244
2.	Transfer Energies of DL-Phenylalanine in Aqueous N,N-Dimethylformamide, Sanjay Roy, 2022, Vol. 96, No. 9, pp. 1968–1975	Russian Journal of Physical Chemistry A	2022	ISSN 0036-0244
3.	Recently Reported Ru-Metal Organic Coordination Complexes and Their Application (A Review), Partha S. Guin, Sanjay Roy, 2022, Vol. 92, No. 8, pp. 1–16.	Russian Journal of General Chemistry	2022	ISSN 1070-3632
4.	An Editorial: Advance Research on Solubility and Solvation Thermodynamics on Pharmaceutically Important Molecules, Sanjay Roy, Vol.07, No.(1) 2022, Pg 01-03	Oriental Journal of Physical Sciences	2022	ISSN: 2456-799X
5.	A Co(III) Complex of 1-Amino-4-hydroxy-9,10-anthraquinone Exhibits Apoptotic Action against MCF-7 Human Breast Cancer Cells, Somenath Banerjee, Sanjay Roy, Dhanasekaran Dharumadurai, Balaji Perumalsamy, Ramasamy Thirumurugan, Saurabh Das, Asoke Prasun Chattopadhyay,* and Partha Sarathi Guin, Vol. 7, Issue-1, 1428–1436	ACS OMEGA	2021	ISSN: 2470-1343
6.	A Review on Environmental Friendly Gasoline Substituent: Bio-ethanol, Avishek Saha, Kalachand Mahali, Sanjay Roy, 2022; 15(1):97-105.	Asian Journal of Research in Chemistry	2021	ISSN: 0974-4169
7.	A Review on Profit, Probable Hazard, and Ecological Impacts of Commonly used Chewing Gum, Sanjay Roy, 2021; 14(6):459-470.	Asian Journal of Research in Chemistry	2021	ISSN: 0974-4169
8.	Solubility and solvation thermodynamics of glycine, DL-alanine and L-threonine in pure aqueous and aqueous (NH ₄) ₂ SO ₄ solution, Partha Sarathi Guin, Biplab Ghosh, Subhas Chandra Debnath, Sibdas Baskey, Sanjay Roy *, Kalachand Mahali, 788 (2022) 139284.	Chemical Physics Letters	2021	ISSN 0009-2614
9.	Solubilization of sodium 3-amino-2-hydroxyanthraquinone-1-sulphonate in sodium dodecyl sulfate micelles explains its permeation in A549 human lung cancer cell, Somenath Banerjee, Sanjay Roy, Arup Datta, Palash Mondal, Monali Mishra, Balaji Perumalsamy, Ramasamy Thirumurugan, Dhanasekaran Dharumadurai, Saurabh Das, Partha Sarathi Guin, 2020;1–13.	Journal of Chinese Chemical Society	2020	ISSN 2192-6549
10.	Thermodynamics of solute-solvent interactions and solubility of some amino acids in aqueous sodium iodide solutions at T= 298.15 K, Arup Datta, Sanjay Roy, 2021, Vol. 95, Suppl. 1, pp. S63–S71.	Russian Journal of Physical Chemistry A	2020	ISSN 0036-0244
11.	Solid Phase Synthesis of Biologically active Benzimidazole derivatives Catalysed by Methanesulphonic acid-SiO ₂ under Solvent free Condition, Arup Datta, Sanjay Roy: 2020, Vol. 36, No.(3): Pg. 537-543	Oriental Journal of Chemistry	2020	ISSN: 0970-020 X

12.	Solubility Data of Glycine in Water and Justification of literature Results; Arup Datta, Aslam Hossain, Partha Sarathi Guin, Sanjay Roy* Vol. 32, No. 7 (2020), 1525-1533	Asian Journal of Chemistry	2020	ISSN: 0970-7077
13.	Electrolytic effects on solubility and Gibbs free energies of 1,4-dihydroxy-9,10-anthraquinone in aqueous methanol media via UV-Vis spectroscopic and theoretical studies, Partha Sarathi Guin*, Sanjay Roy* Available online 28 February 2020, Vol: 746, Page: 137292	Chemical Physics Letters	2020	ISSN 0009-2614
14.	Solubility and peculiar thermodynamical behaviour of 2-aminobenzoic acid in aqueous binary solvent mixtures at 288.15 to 308.15 K, Sk. Imran, Aslam Hossain, Kalachand Mahali, Partha Sarathi Guin, Arup Datta, Sanjay Roy, *302 (2020) 112566	Journal of Molecular Liquids	2020	ISSN 0167-7322
15.	Recent Progress and Approaches on Carbon-Free Energy from Water Splitting; (Aslam Hossain, K. Sakthipandi, A. K. M. Atique Ullah, Sanjay Roy, 2019:11: 103	Nano-Micro Lett.	2019	ISSN: 2311-6706
16.	Electrolytic effect on the solubility and solvation thermodynamics of L-serine and L-isoleucine in aqueous media: Saroj Chowdhury, Prasenjit Mandal, Aslam Hossain, Partha Sarathi Guin, Sanjay Roy,* and Kalachand Mahali, 64, 10, 4286-4297.	Journal of Chemical & Engineering Data (ACS publication)	2019	ISSN 0021-9568
17.	Solubility analysis of homologous series of amino acids and solvation energetics in aqueous potassium sulfate solution: Heliyon, Aslam Hossain, Kalachand Mahali, Bijoy Krishna Dolui, Partha Sarathi Guin, Sanjay Roy*, Volume 5, Issue 8, August 2019, e02304	Heliyon (Elsevier)	2019	ISSN: 2405-8440
18.	An overview on Monosodium glutamate: its direct and indirect effects: Arup Datta, Aslam Hossain, Sanjay Roy , 12(12): 6187-6192,	Research Journal of Pharmacy and Technology	2019	ISSN: 0974-3618
19.	An overview of La ₂ NiMnO ₆ double perovskites: synthesis, structure, properties and applications; J Sol-Gel Sci Technol, Aslam Hossain, A. K. M. Atique Ullah, Partha Sarathi Guin and Sanjay Roy , (2019). https://doi.org/10.1007/s10971-019-05054-8 , *	Journal of Sol-Gel Science and Technology	2019	ISSN: 0928-0707
20.	The external and internal influences on the tuning of the properties of perovskites: An overview, Aslam Hossain, Sanjay Roy , K. Sakthipandi*, 45(2019) 4152-4166,	Ceramics International	2019	ISSN: 0272-8842
21.	An Overview on Biofuels and Their Advantages and Disadvantages; 2019 / 31(8) / pp 1851-1858, Arup Datta, Aslam Hossain, Sanjay Roy*	Asian J. Chem.	2019	ISSN: 0970-7077
22.	A review on the Comparative Study of Different Biofuels, 6(2019)665-678; Arup Datta, Sanjay Roy	IJRAR	2019	ISSN 2349-5138
23.	Role of Solubility and Solvation Thermodynamics on the Stability of L-phenylalanine in Aqueous Methanol and Ethanol Solutions; 265(2018) 693-700; Sk. Imran, Aslam Hossain, Kalachand Mahali, Amit Saha Roy, Partha Sarathi Guin, Sanjay Roy *	Journal of Molecular Liquids	2018	ISSN 0167-7322
24.	Solubility and Thermodynamics of Solute–Solvent Interactions of Some Amino Acids in Aqueous Sodium Bromide and Potassium Bromide Solutions; 63(2018)534-541 Partha Sarathi Guin, Kalachand Mahali, Bijoy Krishna Dolui, and Sanjay Roy*	Journal of Chemical & Engineering Data (ACS publication)	2018	ISSN 0021-9568
25.	Solubility and transfer solvation thermodynamics of L-isoleucine and L-serine in water to aqueous solution of Na ₂ SO ₄ and K ₂ SO ₄ from 288.15 K to 303.15 K; 706(2018)432-439; S. Chowdhury, P. Mandal, Md. Sarikul Islam, A. Hossain, P.S. Guin, Sanjay Roy*, Kalachand Mahali*	Chemical Physics Letters	2018	ISSN 0009-2614
26.	Effect of Electrolytes on the Solubility and Solution thermodynamics of 1-Amino-4-Hydroxy-9,10-Anthraquinone, an Analogue of Anthracycline Anticancer Drugs, in Aqueous Ethanol Media Using Theoretical and UV-Vis Spectroscopic Study; 252 (2018) 151-157; Sk. Imran, Aslam Hossain Sujay Parui, Partha Sarathi Sengupta, Sanjay Roy *, Partha Sarathi Guin	Journal of Molecular Liquids	2018	ISSN 0167-7322

27.	Correction to "amino acid solubility under the influence of NaCl at 298.15 K"; 252 (2018) 144, Sanjay Roy , Partha Sarathi Guin, Kalachand Mahali, Bijoy Krishna Dolui	Journal of Molecular Liquids	2018	ISSN 0167-7322
28.	Solubility and solute-solvent interactions of DL-alanine and DL-serine in aqueous potassium nitrate solutions; 249 (2018) 1133–1137; Aslam Hossain, Sanjay Roy*	Journal of Molecular Liquids	2018	ISSN 0167-7322
29.	Electrochemical and UV–Vis spectroscopic studies on the interaction of sodium 1,4-dihydroxy-9,10-anthraquinone-2-sulphonate with cetyltrimethylammonium bromide micelles; 694(2018)7-13; Sanjay Roy , Partha Sarathi Sengupta, Partha Sarathi Guin	Chemical Physics Letters	2018	ISSN 0009-2614
30.	Review An overview of double perovskites A ₂ B'B''O ₆ with small ions at A site: Synthesis, structure and magnetic properties; 740(2018) 414-427; Aslam Hossain, Prasanta Bandyopadhyay, Sanjay Roy*	Journal of Alloys and Compounds	2018	ISSN 0925-8388
31.	Evaluation and correlation of solubility and solvation energetics of DL-phenylalanine and DL-serine in water and aqueous ethylene glycol solutions; 249(2018) 659–665; Srabani Ghosh, Samiran Mondal, Sanjay Roy* , Soumen Saha, Dushila Subba, Bijoy Krishna Dolui*	Journal of Molecular Liquids	2018	ISSN 0167-7322
32.	Solvation Thermodynamics of DL-Phenylalanine in Aqueous NaNO ₃ Solution at 298.15 K; 92(2018)734-738; Sanjay Roy , Samiran Mondal, and Bijoy Krishna Dolui	Russian Journal of Physical Chemistry A	2018	ISSN 0036-0244
33.	Evaluation and correlation of Solubility and Solvation Thermodynamics of Glycine, DL-alanine and DL-valine in Aqueous Sodiumsulphate Solutions at two different temperatures; 234(2017)124-128; Sanjay Roy*, Partha Sarathi Guin, Kalachand Mahali, Aslam Hossain, Bijoy Krishna Dolui	Journal of Molecular Liquids	2017	ISSN 0167-7322
34.	Model studies on the interactions of a Cu(II)-quinone complex with surfactant micelles and DNA explore its induction of apoptosis in human MDA-MB-231 breast adenocarcinoma cells; 70(2017)2128-2147; Sanjay Roy, Gayathri Loganathan, Dhanasekaran Dharumadurai, Mohammad A. Akbarsha, Partha Sarathi Guin	Journal of Coordination Chemistry	2017	ISSN 0095-8972
35.	Evaluation and correlation of Solubility and Solvation Thermodynamics of Glycine, DL-alanine and DL-valine in Aqueous Sodiumsulphate Solutions at two different temperatures; 234(2017)124-128; Sanjay Roy*, Partha Sarathi Guin, Kalachand Mahali, Aslam Hossain, Bijoy Krishna Dolui	Journal of Molecular Liquids	2017	ISSN 0167-7322
36.	Recent Developed Different Structural Nanomaterials and Their Performance for Supercapacitor Application; 9 (2017) 300–313, Aslam Hossain, Prasanta Bandyopadhyay, Partha Sarathi Guin, Sanjay Roy*	Applied Material Today	2017	ISSN 2352-9407
37.	Effects of Thermodynamics on the Solvation of Amino Acids in the Pure and Binary Mixtures of Solutions: A Review; 232(2017)332-350; Aslam Hossain, Sanjay Roy, Bijoy Krishna Dolui	Journal of Molecular Liquids	2017	ISSN 0167-7322
38.	A Piece of Writing: Future Prospect of Biofuels; 8(2017) 49-52; Sanjay Roy	Journal of Biofuels [Indianjournals.com]	2017	ISSN 0976-3015
39.	A Soluble Cu(II) Complex of Sodium 1,4-Dihydroxy-9,10-Anthraquinone-2-Sulphonate Electrocatalyzes Water Oxidation with a Large Turn over Frequency; 77(2017)39-60; Sanjay Roy, Partha Sarathi Guin	ECS Transactions The Electrochemical Society	2017	ISSN 1938-6737
40.	Solubility and transfer Gibbs free energetics of glycine, DL-alanine, DL-nor-valine and DL-serine in aqueous sodium fluoride and potassium fluoride solutions at 298.15 K; 56A (2017) 399-406; Sanjay Roy*, Partha Sarathi Guin, Kalachand Mahali & Bijoy Krishna Dolui	Indian Journal of Chemistry	2017	ISSN: 0376-4710
41.	Solubility and solute–solvent interaction phenomenon of succinic acid in aqueous ethanol mixtures; 229(2017)172-177; Kalachand Mahali, Partha Sarathi Guin, Sanjay Roy* & Bijoy Krishna Dolui*	Journal of Molecular Liquids	2017	ISSN 0167-7322

42.	Solvation thermodynamics of L-cystine, L-tyrosine and L-leucine in aqueous-electrolyte; 91(2017)2397–2403; Sanjay Roy*, Partha Sarathi Guin, Kalachand Mahali & Bijoy Krishna Dolui	Russian Journal of Physical Chemistry A	2017	ISSN 0036-0244
43.	The Importance of Advance Biomaterials in Modern Technology: A Review; 10(4)(2017)1-13; Aslam Hossain, Sanjay Roy, Partha Sarathi Guin	Asian J. Research Chem.	2017	ISSN 0974-4169
44.	Comparative Study on Solubility of Glycine, DL-alanine, DL-nor-valine and DL-serine in Aqueous Solutions of NaF and KF at 298.15 K; 219(2016) 815–819; Sanjay Roy, Kalachand Mahali & Bijoy Krishna Dolui	Journal of Molecular Liquids	2016	ISSN 0167-7322
45.	Role of Electrolytes in the Solubility of L-proline and Its Transfer Free Energetics; 223(2017) 927–933; Sanjay Roy*, Partha Sarathi Guin, Kalachand Mahali, Bijoy Krishna Dolui	Journal of Molecular Liquids	2016	ISSN 0167-7322
46.	Solubility of glycine and DL-nor-valine in aqueous solutions of NaNO ₃ and KNO ₃ and measurements of transfer thermodynamics; 222(2016)313-319; Sanjay Roy, Partha Sarathi Guin, Samiran Mondal, Srabani Ghosh, Bijoy Krishna Dolui	Journal of Molecular Liquids	2016	ISSN 0167-7322
47.	Thermodynamics of DL- α -Amino butyric acid Induced Solvation Mechanism in Aqueous KCl Solutions at 288.15-308.15 K; 90(2016) 1798–1805; S. Mondal, S. Ghosh, A. Hossain, K. Mahali, Sanjay Roy*, & B. K. Dolui	Russian Journal of Physical Chemistry A	2016	ISSN 0036-0244
48.	Solubility and Chemical Thermodynamics of DL-Alanine and DL-Serine in Aqueous NaCl and KCl Solutions; 61(2016)132-141; Sanjay Roy, Aslam Hossain, Bijoy Krishna Dolui	Journal of Chemical & Engineering Data (ACS publication)	2016	ISSN 0021-9568
49.	Studies on the interaction of 2-amino-3-hydroxy-anthraquinone with surfactant micelles reveal its nucleation in human MDA-MB-231 breast adenocarcinoma cells; 6(2016) 28200–28212; Amit Das, Sanjay Roy, Palash Mondal, Arup Datta, Kalachand Mahali, Gayathri Loganathan, Dhanasekaran Dharumadurai, Partha Sarathi Sengupta, Mohammad Abdulkadher Akbarsha and Partha Sarathi Guin	RSC Advances	2016	ISSN 2046-2069
50.	Amino acid solubility under the influence of NaCl at 298.15 K; 218(2016)316–318; Sanjay Roy, Partha Sarathi Guin, Kalachand Mahali, Bijoy Krishna Dolui	Journal of Molecular Liquids	2016	ISSN 0167-7322
51.	Spectroscopic, computational and electrochemical studies on 2-(4-nitrophenyl)-1H-benzo[d]imidazole and its interaction with cationic surfactant cetyltrimethylammonium bromide; 219(2016) 1058-1064; Arup Datta, Sanjay Roy, Palash Mondal, Partha Sarathi Guin	Journal of Molecular Liquids	2016	ISSN 0167-7322
52.	Chemical Transfer Energetics of a Series of Homologous α - Amino Acids in Quasi-Aprotic 2-Methoxyethanol-Water Mixtures; 45 (2016) 574-590; Sanjay Roy, Kalachand Mahali, Bijoy K. Dolui	Journal of Solution Chemistry	2016	ISSN 0095-9782
53.	The chemical stability of L-isoleucine, L-threonine and L-serine in aqueous solutions of KCl at 298.15 K; 90(2016) 1175–1180; Sanjay Roy & Bijoy Krishna Dolui	Russian Journal of Physical Chemistry A	2016	ISSN 0036-0244
54.	Preliminary Review on Solvation Chemistry in Aqueous Solvents: Application to Amino Acids. 11(2016)103-122; Sanjay Roy & Bijoy Krishna Dolui	Phys Chem Indian Journal	2016	ISSN 0974-7524
55.	A Co(II) complex of a vitamer of vitamin B6 acts as a sensor for Hg ²⁺ and pH in aqueous media; 40 (2016) 6396—6404; Nilam Sing, Sanjay Roy , Partha Sarathi Guin, Kalachand Mahali, Prakash Majee, Sudip Kumar Mondal, Partha Mahata, Partha Sarathi Sengupta and Palash Mondal	New Journal of Chemistry	2016	ISSN 1144-0546
56.	Study of the Solubility and Transfer Thermodynamics of D,L-Phenylalanine in Aqueous Sodium Chloride and D,L-Serine in Aqueous Sodium Nitrate Solutions; 45(2016) 1755-1772; Samiran Mondal, Sanjay Roy* , Srabani Ghosh, Kalachand Mahali, Bijoy Krishna Dolui	Journal of Solution Chemistry	2016	ISSN 0095-9782
57.	Design of a mononuclear copper(II)-phenanthroline complex: Catechol oxidation, DNA cleavage and antitumor properties; 106(2016) 106-114; Dhananjay Dey, Subrata Das, Hare Ram Yadav, Anandan Ranjani, Loganathan Gyathri, Sanjay Roy, Partha Sarathi Guin, Dharumadurai Dhanasekaran, Angshuman Roy Choudhury, Mohammad Abdulkader	Polyhedron	2016	ISSN 0277-5387

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58.	Chemistry in our daily life: Preliminary information; 2(3) (2016) 361-366; Sanjay Roy	International Journal of Home Science	2016	ISSN: 2395-7476
59.	Design of a mononuclear copper(II)-phenanthroline complex: Catechol oxidation, DNA cleavage and antitumor properties;106(2016) 106-114; Dhananjay Dey, Subrata Das , Hare Ram Yadav, Anandan Ranjani , Loganathan Gyathri , Sanjay Roy , Partha Sarathi Guin , Dharumadurai Dhanasekaran, Angshuman Roy Choudhury , Mohammad Abdulkader Akbarsha , Bhaskar Biswas	Polyhedron	2016	ISSN 0277-5387
60.	Chemistry in our daily life: Preliminary information; 2(3) (2016) 361-366; Sanjay Roy	International Journal of Home Science	2016	ISSN: 2395-7476
61.	Spectroscopic, computational and electrochemical studies on the formation of the copper complex of 1-amino-4-hydroxy-9,10-anthraquinone and effect of it on superoxide formation by NADH; 44(2015) 5428–5440; Sanjay Roy, Palash Mondal, Partha Sarathi Sengupta, Debasis Dhak, Ramesh Chandra Santra, Saurabh Das and Partha Sarathi Guin	Dalton Transaction	2015	ISSN: 1477-9226
62.	Solvation of 1-Amino-4-Hydroxy-9, 10-Anthraquinone Governs Its Electrochemical Behavior in Non-Aqueous and Aqueous Media: A Cyclic Voltammetry Study;162(2015) H124-H131; Sanjay Roy, Partha Sarathi Guin	Journal of The Electrochemical Society	2015	ISSN 0013-4651
63.	Investigation on the interaction of 1-amino-4-hydroxy-9, 10-anthraquinone with calf thymus DNA and CTAB micelles;211(2015) 846-853; Sanjay Roy, Partha Sarathi Guin	Journal of Molecular Liquids	2015	ISSN 0167-7322
64.	1-Amino-4-hydroxy-9,10-anthraquinone–An analogue of anthracycline anticancer drugs, interacts with DNA and induces apoptosis in human MDA-MB-231 breast adenocarcinoma cells:Evaluation of structure–activity relationship using computational, spectroscopic and biochemical studies. ; 4(2015)312-323; Palash Mondal ¹ , Sanjay Roy ¹ , Gayathri Loganathan, Bitapi Mandal, Dhanasekaran Dharumadurai, Mohammad A. Akbarsha, Partha Sarathi Sengupta, Shouvik Chattopadhyay, Partha Sarathi Guin	Biochemistry and Biophysics Reports	2015	ISSN 2405-5808
65.	Physico-Chemical Studies of DL-Alanine in Aqueous Sodium Nitrate Solution; 85(2015) 162-167; Sanjay Roy, K. Mahali, S. Mondal, R. P. Mondal, B. K. Dolui	Russian Journal of General Chemistry	2015	ISSN 1070-3632
66.	Solubility and solvation thermodynamics of DL-nor- valine in aqueous solutions of NaCl and KCl;211(2015) 294-300; Sanjay Roy, Partha Sarathi Guin, Bijoy K. Dolui	Journal of Molecular Liquids	2015	ISSN 0167-7322
67.	Solubility and Solvation thermodynamics of a series of homologous α -amino acids in non-aqueous binary mixtures of Ethylene glycol and Dimethylsulfoxide; 60 (2015) 1233-1241; Kalachand Mahali, Sanjay Roy, Bijoy Krishna Dolui	Journal of Chemical & Engineering Data (ACS publication)	2015	ISSN 0021-9568
68.	Solubility of DL-Serine and DL-Phenylalanine in Aqueous Mixtures of Dimethyl Sulfoxide and Solvation Thermodynamics; 5(2015) 69839–69847; Aslam Hossain, Sanjay Roy, Srabony Ghosh, Samiran Monda, Bijoy Krishna Dolui	RSC Advances	2015	ISSN 2046-2069
69.	Thermodynamics of DL-alanine Solvation in Water-dimethylsulfoxide Mixtures at 298.15 K; 89(2015) 654–662; Sanjay Roy, Kalachand Mahali, Samiran Mondal, Bijoy K. Dolui	Russian Journal of Physical Chemistry A	2015	ISSN 0036-0244
70.	Solubility of α -amino butyric acid in water-NaNO ₃ mixture and analysis of related thermodynamic parameters; 15(2015) 65-73; Sanjay Roy, K. Mahali, S. Pal, S. Mondal, B.K.Dolui	Analytical Chemistry: An Indian Journal	2015	ISSN 0974-7419
71.	Thermodynamics and Mechanisms of Glycine Solvation in Aqueous NaCl and KCl Solutions at 298.15 K; 89(2015) 2111-2119; Sanjay Roy, Aslam Hossain, Kalachand Mahali, and Bijoy K. Dolui	Russian Journal of Physical Chemistry A	2015	ISSN 0036-0244
72.	Thermodynamics of solvation of DL- α -amino butyric acid in aqueous dimethyl sulfoxide at 298.15 K; 9(2015) 273-282; S. Roy, K. Mahali, S. Mondal, B.K. Dolui	Physical Chemistry: An Indian Journal	2015	ISSN 0974-7524
73.	Thermodynamics of solvation of DL- α -amino butyric acid in aqueous dimethyl sulfoxide at 298.15 K; 9(8), (2014)273-282; S. Roy, K. Mahali, S. Mondal, B.K. Dolui	Physical Chemistry: An Indian Journal	2014	ISSN 0974-7524

74.	“Transfer free energies for solvation of amino acid L-Histidine in aqueous mixtures of Protic Glycerol at 298.15 K’. S. Roy, K.Mahali & B. K. Dolui., Vol. 3(2), 2014, [470-476].	Int. J. Chem. Pharm. Res.	2014	ISSN-2319-1716
75.	“Role of Glycine as a ‘3D-structure’ maker in aqueous mixture of protophilic dipolar aprotic Dimethyl Sulphoxide. S. Roy, K. Mahali, S. Mondal, B. K. Dolui, 2014, 6(5):780-790.	Journal of Chemical and Pharmaceutical Research	2014	ISSN-0975-7384
76.	“Thermodynamic Studies Related to the Solvation Chemistry of DL- α -Amino butyric Acid in Aqueous Solution of Sodium chloride’ S. Roy, K. Mahali, M.Murmu & B. K. Dolui2014, 3(4), 29-42.	. Int. J. Chem. Phys. Sci.	2014	ISSN: 2192-6506
77.	‘Solvation Chemistry of DL-Nor-Valine in Aqueous Mixture of Dipolar aprotic N, N- Dimethyl-formamide’ K. Mahali, S. Roy, B. K. Dolui., 2014, 61, 659-664.	Journal of Chinese Chemical Society.	2014	ISSN: 2192-6549
78.	“Solvation mechanism of DL-nor-Valine in aqueous mixtures of protophilic dipolar aprotic Dimethylsulfoxide’ Sanjay Roy, K. Mahali, B. K. Dolui., Vol-5(1), 2014 [11-19].	Int. J. Chem. Pharm. Sci	2014	ISSN-0976-9390
79.	“Comparative chemical transfer Gibbs free energy related to solvation of amino acid, L-Histidine in aqueous mixtures of N, N-Dimethylformamide and Protic Glycerol at 298.15 K. S. Roy, K. Mahali, B. K. Dolui2014, 2(7): 953-960.	Int. J. Chemist. Pharm. Sci.	2014	ISSN-2321-3132
80.	“Thermodynamic Solvation of α -Amino Butyric Acid in Aqueous Mixture of Dipolar Aprotic N, N- Dimethyl formamide; S. Roy, K. Mahali, S. Akhter, & B. K. Dolui., , vol-25, No-12, 2013 [6661-6665]	Asian Journal of Chemistry	2013	ISSN 0975-427X
81.	“Solvation Thermodynamics of a Series of Homologous α - Amino Acids in Non-aqueous Binary Mixtures of Protic Ethylene Glycol and Dipolar Aprotic Acetonitrile ; K. Mahali, S. Roy, B. K. Dolui., Vol-42, No-5, 2013 [1096-1110].	Journal of Solution Chemistry	2013	ISSN 0095-9782
82.	“Thermodynamic interactions due to transfer of amino Acids, glycine and dl-alanine in aqueous mixture of cationophilic dipolar aprotic N, N-dimethyl formamide; S. Roy, K. Mahali, & B. K. Dolui., vol-25, No-12, 2013 [8037-8042]	Asian journal of chemistry	2013	ISSN Online: 0975-427X
83.	“Thermodynamic Solvation of a Series of Homologous α - Amino Acids in Aqueous Mixtures of 1, 2-Dimethoxymethane; S. Roy, K. Mahali, B. K. DoluiVol-42, No-7, 2013 [1472-1487].” 1702- 1710.	Journal of Solution Chemistry	2013	ISSN 0095-9782

DETAILS OF SELECTED PUBLICATIONS (BOOKS):

SL. No.	Title	Author’s Name	Publisher	Year of Publication
1	Solvation of Some α-amino Acids in Aquo organic Binary Solvents ISBN 13: 978-3-659-95921-9; ISBN 10:3659959219; EAN:9783659959219	Sanjay Roy	LAP LAMBERT Academic Publishing, OmniScriptum AraPers GmbH Bahnhofstraße 28, D-66111 Saarbrücken, Germany	2016
2	Chemistry in Everyday’s life ISBN-13:978-3-330-01994-2; ISBN-10:3330019948; EAN: 9783330019942	Sanjay Roy, Partha Sarathi Guin	LAP LAMBERT Academic Publishing, OmniScriptum AraPers GmbH Bahnhofstraße	2016

			28, D-66111 Saarbrücken, Germany	
3	Chemistry of Water: Cradle of Life ISBN-13: 978-3330058293; ISBN-10: 3330058293; EAN: 9783330058293	Dr. Sanjay Roy , Dr. Partha Sarathi Guin and Aslam Hossain	LAP LAMBERT Academic Publishing, OmniScriptum AraPers GmbH Bahnhofstraße 28, D-66111 Saarbrücken, Germany	2017
4	Higher Secondary Chemistry Books Volume I (Class XI)	Dr. Partha Sarathi Guin, Dr. Sanjay Roy , Sandipan Mondal, Md. Jahir Middy, Dr. Koninika Karmakar	Board of Rabindra Mukta Vidhyalaya, Government of West Bengal.	2018
5	Higher Secondary Chemistry Books Volume II (Class XII)	Dr. Partha Sarathi Guin, Dr. Sanjay Roy , Sandipan Mondal, Md. Jahir Middy, Dr. Koninika Karmakar	Board of Rabindra Mukta Vidhyalaya, Government of West Bengal.	2018

SEMINARS, CONFERENCES, WORKSHOPS, ETC (Paper presenter/ invited talk/ Coordinator/chairperson):

Sl. No.	Title of Paper/ Lecture	Organizing Institute	Conference, Seminar, workshop etc.	International (Within Country)/ International (Abroad)/National	Role
1	“Quaternization of poly (4-vinyl pyridine) for pre-concentration and separation of Cr (vi) from environmental samples”	Department of chemistry, S.K.M university, Dumka, India	UGC-sponsored national seminar on ‘Water pollution and its recent challenges’	National	Oral Presentation
2	“Chemical transfer energetics of a series of Homologous α -amino acids in non-aqueous mixture of protic ethylene glycol and dipolar aprotic N,N-dimethylformamide”	Department of Chemistry ,NBU	Chemical Research society of India, Eastern Zonal meeting, 2011 and Celebration of the International year of Chemistry, 2011	National	Poster Presentation
3	“Chemical transfer energetic of a series of homologous α -amino acids in 2-methoxyethanol +water mixtures	Dept. of chemistry Visva-Bharati, Santiniketan.	IXth CRSI (KOLKATA CHAPTER) symposium on Chemical research in the first decade of 21st century(2011)	National	Poster Presentation
4	“Studies of electrochemical behavior of 1-amino-4-hydroxy-9, 10-anthraquinone in non-aqueous and aqueous	Sidho Kanho Birsha University	National Conference on Chemistry for Better tomorrow current Trends and Opportunity” CBT-	National	Poster Presentation

	media: By cyclic voltammetry”		2014		
5	‘Stabilization of α -amino butyric acid in aqueous mixture of dipolar aprotic N,N-dimethyl formamide’, p-15	Department of Chemistry , Jadavpur University.	National Seminar on Social Function of Science and The Celebration of 150th Birth Anniversary of Swami Vivekananda ,2013	National	Poster Presentation

Disclaimer: I assert that the details furnished above are all true to the best of my knowledge.

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25-11-2022