

LIST OF PUBLICATION

2023:

[58] Satyabrata Sahoo, Brajadulal Chattopadhyay and Ria Rakshit; Analysis of codon usage pattern in the genome of a novel bacterial strain isolated from Bakreswar Hot spring: *Industrial Biotechnology*; 2023,19(4),237

2022:

[57] Satyabrata Sahoo and Ria Rakshit; The pattern of coding sequences in the chloroplast genome of *Atropa belladonna* and a comparative analysis with other related genomes in the nightshade family: *Genomics and Informatics*; 2022,20(4),e43

2021:

[56] Satyabrata Sahoo; Analysis of codon usage pattern and gene expression in *Aspergillus fumigatus*; *International Journal of Biosciences*; 2021,13(4),181-194

[55] Satyabrata Sahoo; Analysis of Codon Usage Pattern in 2019-nCoV ; *International Journal of Computational Biology and Drug Design*; 2021,14(4),273-296

[54] Satyabrata Sahoo; Analysis of Codon Usage Pattern and Predicted Gene Expression in *Neurospora Crassa*: A Novel in Silico Approach; *International Journal of Life science and Pharma Research*; 2021,11(5),35-60

[53] Satyabrata Sahoo; Analysis of Codon Usage and Nucleotide Bias in Severe Acute Respiratory Syndrome Coronavirus 2(SARS-CoV-2) Genes ; *International Journal of Biosciences*; 2021,19(1),31-45

2019:

[52] Satyabrata Sahoo and Ria Rakshit; 2019 Novel Human Coronavirus Sars-Cov-2 And Covid-19: A Brief Review ; International Journal of Life science and Pharma Research; 2021,11(1),273-283

[51] Uttam Roy Mandal, Shib Sankar Das, Brajadulal Chatcenteradhyay, Satyabrata Sahoo; Identified Hybrid tRNA Structure Genes in Archaeal Genome; Iranian Journal of Biotechnology; 2019, 17(3),1

[50] Satyabrata Sahoo, Shibsankar Das and Ria Rakshit; Codon usage pattern and predicted gene expression in *Arabidopsis thaliana* ; 2019, Gene X,2,100012

2018:

[49] Uttam Roy Mandal, Shib Sankar Das, Brajadulal Chatcenteradhyay, Satyabrata Sahoo Comprehensive Study of Composite tRNA Genes in Archaeal Genome ; Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences; 2018, 4(5),823

[48] Uttam Roymandal, Shib Sankar Das, Riya Rakshit and Satyabrata Sahoo; Suppressive Variants of Selenocysteine tRNA in the Complete Genome of Methanopyrus kandleri AV19;2018, J. Pharmacogenomics Pharmacoproteomics , 9(2),179.

2017:

[47] Ria rakshit and **Satyabrata Sahoo**; In Silico Prediction of Gene expression Based on Codon Usage : A mini Review ;2017, Journal of Investigative Genomics 4(2),63

[46] Shibsankar Das, Brajadulal Chotcenteradhyay, **Satyabrata Sahoo**; Comparative Analysis of Predicted Gene Expression among Crenarchaeal Genomes;2017, Genomics & Informatics 1591,38.

2014:

[45] **Satyabrata Sahoo** and Shibsankar Das, Analyzing Gene Expression and Codon Usage Bias in Metallosphaera Sedula; 2014, J. Bioinf. Intell. Control 3, 72-80.

[44] **Satyabrata Sahoo** and Shibsankar Das; Analysing gene expression and codon usage bias in diverse genomes using a variety of models; 2014, Current Bioinformatics 9(5), 102-112.

[43] Smarjit Das, Sanga Mitra, **Satyabrata Sahoo** and Jayprokas Chakrabarti; Viral/Plasmid captures in Crenarchaea; 2014, Journal of Biomolecular Structure and Dynamics, 32(4), 546-554.

2012:

[42] Shibsankar Das, Uttam Roymondal, Brajadulal Chotcenteradhyay, **Satyabrata Sahoo**; Gene expression profile of the cyanobacterium synechocystis genome; 2012, Gene 497, 344.

2011:

[41] Sanga Mitra, Smarjit Das, **Satyabrata Sahoo**, Chandana Sinha and Jayprakash Chakrabarti; Phylogeny derived from homodimeric endonuclease correlates with its pre-RNA substrates; 2011, Adv. Biosc. and Biotech. 2, 117

[40] Smarjit Das, Sanga Mitra, **Satyabrata Sahoo**, and Jayprakash Chakrabarti; Novel Hybrid Encodes both Continuous and Split tRNA Genes; 2011, J. Bio. Struc. & Dynm. 28, 1

2009:

[39] Smarjit Das, Ritwik Mukherjee, **Satyabrata Sahoo**, Rachna Thakkar and Jayprakash Chakrabarti; Structural Clones of UAG Decoding RNA; 2009, J. Bio. Struc. & Dynm. 27, 1

[38] **Satyabrata Sahoo** and Y.K.Ho; On the appearance of a Cooper minimum in the photoionization cross sections of the plasma-embedded Li atom; 2010, JQSRT.111,52.

[37] **Satyabrata Sahoo** and Y.K.Ho; Photoionization of the excited He* atom in Debye plasma; 2009, Research letters in Physics. 832413,1.

[36] Partha Sarathi Das and **Satyabrata Sahoo**; Bipolaronic excitations of interacting electron (hole) gas in one dimensional lattice model; 2009, Physica B, 404, 4225.

[35] Shibsankar Das, Uttam Roymondal, and **Satyabrata Sahoo**; Analyzing gene expression from relative codon usage bias in *Yeast* genome : a statistical significance and biological relevance; 2009, Gene 443, 121.

[34] Uttam Roymondal, Shibsankar Das, and **Satyabrata Sahoo**; Predicting Gene Expression Level from Relative Codon Usage Bias : An Application to *Escherichia Coli* Genome; 2009, DNA Research 16, 13.

2008:

[33] **S.Sahoo** and Y.C.Lin and Y.K.Ho; 2008, Quantum confined hydrogenic impurity in a spherical quantum dot under the influence of parallel electric and magnetic field; **Physica E40, 3107.**

2006:

[32] **S.Sahoo** and Y.K.Ho; 2006, Photoionization of Li and Na in Debye plasma environments; **Physics of Plasmas 13, 1, 2006.**

[31] I.Mukhopadhyaya, A.Som, **S.Sahoo**; Word organization in Coding DNA : a mathematical model; 2006, **Theory in Biosciences 125, 1**

[30] J.Chakrabarty, Z. Ghosh, B. Mallick,S. Das, **S. Sahoo** and H. Singh:**2006**, tRNA- isoleucine-tryptophan composite gene: **BBRC 339,37**.

2005:

[29] J.Chakrabarty,B.Mallick,,**S.Sahoo**,Z.Ghosh,S.Das;
2005, Identity elements in Archeal tRNA;**DNA Research 12,235**

[28]**S.Sahoo** and Y.K.Ho;**2005**, Field induced energy shifts and widths of low lying states of Na atom in Parallel Magnetic and Electric Fields. : **Chin J. Phys 43,58**

[27] S. Das, J. Chakrabarti, Z. Ghosh, **S. Sahoo** and B. Mallick ; A new measure to study phylogenetic relations in the brown algal order, Ectocarpales : The Codon Impact Parameter ;**2005**, **Journal of Biosciences**, **30(5) 101-111**.

[26]J.Chakrabarti, **S.Sahoo**, B.Mallick S. Das and Z. Ghosh: 2005, Algorithm for pattern recognition in nano-sized archaea, [*Indian J. Phys.*](#)(2005), 79(6), 559-562.

2004:

[25]**S.Sahoo** and Y.K.Ho;**2004**,Anomalous stark effect in the ground state of the confined hydrogen atom in a spherical quantum dot: **Phy. Rev. B 69, 165323**

2003:

[24] A.Som, **S.Sahoo** and I. Mukhopadhyay and J. Chakrabarti; **2003**,Scaling Violations in coding DNA. ; **European Physical Letters 62,271**.

[23]A.Som,**S.Sahoo**and J.Chakrabarti;**2003**,Coding DNA equences: Statistical Distributions; **Mathematical Biosciences183,49**.

[22]S.Chatcenteradhyay, S.Sahoo, W.A.Kanner and J. Chakrabarti;2003, Pressures in Archeal Protein Coding Genes: A Comparative Study:Comparative and Functional Genomics 4,56.

2002:

[21]S.Sahoo and Y.K.Ho;2002, Resonances of Hydrogen and Lithium Atoms in Parallel Magnetic and Electric Fields : *Phys.Rev. A* 65,15403

2000:

[20]S.Sahoo and Y.K.Ho;2000, Determination of Resonance Energy and Width Using th Method of Complex Absorbing Potential:*Chin. J. Phys.* 38,127.

[19]S.Sahoo and Y.K.Ho;2000, Complex Absorbing Potential Method to Study the Stark Effect in Hydrogen and Lithium :*J.Phys.B.*33,2195.

[18]S.Sahoo and Y.K.Ho;2000, Stark Effect on the Low-lying Excited States of the Hydrogen and the Lithium Atoms: *J.Phys.B.* 33,5151.

[17]S.Chatcenteradhyay,A.Som,S.Sahoo and J.Chakrabarti ;2000,Order and Fluctuation in DNA sequences:*Indian J.Phys.*74B, 1.

1999:

[16] S.Tarafdar, P.Nandy, A.Som, S.Sahooand J.Chakrabarti and N.Nandy;1999, Self-similarity and scaling exponent for DNA walk in two and four dimensions;*Indian J.Phys*73B(2),337.

[15]S.Sahoo,A.Bandyopadhyay,T.K.Mitra and N.C.Sil; 1999, The ground state energy of the Helium isoelectronic series;*Indian J. Phys.*73B(1), 25.

[14]A.Bandyopadhyay,**S.Sahoo** and N.C.Sil;**1999**, The calculation of the ground state energy of the Positronium negative ion Ps; *Indian J.Phys.* **73B(2),337**.

[13]**S.Sahoo;1999**, Formation of the ground and the excited states of the Frohlich bipolaron; *Phy. Rev.* **B60, 10803**.

1998:

[12]**S.Sahoo;1998**,Energy levels of the Frohlich polaron in a spherical quantum dot; *Phys. Lett.* **A238,390**.

[11]**S.Sahoo;1998**,The strong coupling polaron in reduced dimensionality;*J.Phys.***C10,1999**.

1996:

[10]**S.Sahoo;1996**,The ground state description of Frohlich polaron in symmetric quantum dot within the framework of LLP-H approach;*Z.Phys.***B101,97**.

[9]**S.Sahoo,1996**, On the formation and stability of the Frohlich bipolaron in two and three dimensional system;*Nuovo Cimento* **D18,849**.

[8]**S.Sahoo, A.Bandyopadhyay, T.K.Mitra and N.C.Sil ; 1996**,Helium atom revisited;*Indian J.Phys.* **70B, 93**

1995:

[7]**S.Sahoo;1995**, The regular perturbation theory on the stability of the strong coupling bipolaron;*Journal of Phys.* **C7,4457**.

1994:

[6]**S.Sahoo;1994**, A variational calculation on the stability of two centre Frohlich bipolaron; *Phys.Lett.A***195**.

[5]**S.Sahoo and T.K.Mitra;1994**, On the formation of an optical mode induced single centre bipolaron;*Journal of Phys. Soc. of Japan* **63**,4102.

1993:

[4]**S.Sahoo and T.K.Mitra; 1993**, Molecular Orbital approach to the Frohlich bipolaron; *Phys. Rev. B***48**,6019.

[3]**S.Sahoo and T.K.Mitra;1993**, Canonical transformation, perturbation theory and strong coupling Landau-Pekar polaron revisited;*Indian J. Phys.*67A, 303.

[2]**S.Sahoo and T.K.Mitra;1993**, Molecular orbital bipolarons and oxide superconductors, *Indian J. Phys.* 67A, 425.

1992:

[1]**S.Sahoo and T.K.Mitra;1992**,Bipolaron formation in polar solids; *Indian J .physics*, 66A, 277.