

Personal Profile

Name (in full) SURAJIT GUIN

Father's Name RUPLAL GUIN

Address VILL.+P.O.-TALIBPUR,
P.S.-SALAR
DIST.-MURSHIDABAD,
PIN-742402
STATE -WEST BENGAL

Date of Birth 30th August, 1990

Sex MALE

Marital Status UNMARRIED

Caste OBC-B

Nationality INDIAN

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Academic Profile

Name of Examination	Year of Passing	Board/University
Ph.D (Theoretical Physics)	Not awarded	Calcutta University
B.Ed.(Physical Science & Mathematics)	2015	West Bengal State University (Adyapeath Annada B.Ed College)
M.Sc. (Physics)	2013	West Bengal State University (A.P.C. College)
B.Sc. (Physics Hons.)	2011	West Bengal State University (Dumdum Motijheel College)
Higher Secondary(XII)	2008	W.B.C.H.S.E (Katwa Bharatibhaban HS)

		School)
Madhyamik(IX-X)	2006	W.B.B.S.E (Talibpur High School)

Achievements

Name of Examination	Year of Passing	Organizing Body	Rank
Research Eligibility Test (RET)	2018	Calcutta University	-----
National Eligibility Test (NET)	2018	CSIR-UGC	AIR-170 (JRF)
Graduate Apptitude Test in Engineering(GATE)	2017	IIT-ROORKEE	AIR-1667
WB-TET	2011 & 2015	WBCSSC	-----
Bose test	2013	SN BOSE NCBS	-----

Research Profile

PUBLICATIONS				
Title of Published Paper	Name of the Journal	Volume/ Number	Year of publication	DOI
Effect of alkali atom doping on the electronic structure	Journal of Molecular Modelling	27/235	2021	10.1007/s00894-021-04845-7

and aromatic character of planar and quasi-planar Al_{13}^+ clusters				
Planarity does not always mean higher aromaticity - Intriguing metalloaromaticity of three Al_{13}^+ isomers.	Journal of Molecular Graphics and Modelling	97/ 107544	2020	10.1016/j.jmglm.2020.107544
Metal-ligand ring aromaticity in a 2D coordination polymer used as a photosensitive electronic device	New Journal of Chemistry	43 6 th issue 2415-2830	2019	10.1039/c8nj05526b
First report of a planar and a quasi-planar Al_{13}^+ cluster having localized antiaromatic deltas within an aromatic sea: NICS, ELF, AIM, and AdNDP bonding analysis	Journal of Molecular Modelling	24/344	2018	10.13140/RG.2.2.10798.36165

ORAL PRESENTATION

TITLE	SEMINARS/ WORK SHOPS/ CONFERENCES	SPONSORED	ORGANIZING BODY	DATE & YEAR
Quantum Chemical Structure plasmonic	One-day conference on	Departmental	Department of Physics	22 nd February

properties of a series of Planar and quasi planar Al_3^+ clusters	Condensed Matter Physics		Ramakrishna Mission Vidyamandira Belur Math Howrah	2019
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Books/Reports/Chapters/General articles etc.

TITLE	SEMINARS/ WORK SHOPS/ CONFERENCES	SPONSORED	ORGANIZING BODY	DATE & YEAR
Quantum Chemical Structure & Plasmonic properties of a series of Planar and quasi planar Al_3^+ clusters	One-day conference on Condensed Matter Physics	Departmental	Department of Physics Ramakrishna Mission Vidyamandira Belur Math Howrah	22 nd February 2019

POSTER PRESENTATIONS

TITLE	SEMINARS/ WORK SHOPS/ CONFERENCES	SPONSORED	ORGANIZING BODY	DATE & YEAR
Transition structure with connecting planar Al_3^+ cluster to the corresponding quasi planar minimum	Energy Frontiers in Material Science (EFMS)	UGC (National)	Department of Physics Behala College	17 th and 18 th February 2019

energy structure				
Al doped nanoscale Wankel Motor A Computational Analysis	Recent Trends in Functional materials in relation to Nano-materials and Nano-technology (RTFMNN)	UGC (National)	Department of Chemistry St. Paul's Cathedrals Mission College	4 th and 5 th February 2016

PARICIPATION OF SEMINARS/WORK SHOPS /CONFERENCES

SEMINARS/ WORK SHOPS/ CONFERENCES	SPONSORED	ORGANIZING BODY	DATE & YEAR
String Theory: the present and the future	UGC (NATIONAL)	Department of Physics Ramkrishna Mission Vidyamadira- Belur	16 th and 17 th September 2016
The biggest Challenge of Green Chemistry: To use its rule in practice	UGC (NATIONAL)	Department of Chemistry AKPC Mahavidyalaya	8 th and 9 th October 2015
Contemporary Issues In Education	NATIONAL	Adyapeath Annada B.Ed College	1 st May 2015
Glimpse of Advanced Physics	DEPARTMENTAL	Department of Physics Bhairab Ganguly College	18 th September 2012
The recent advancement in Nanotechnology and its	UGC (NATIONAL)	Department of Physics	10 th December

applications in daily life		DumDum Motijheel College	2011
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AWARDS			
TYPE	AUTHORITY	SPONSORED	DATE DECLARATION
JRF- JUNIOR RESEARCH FELLOWSHIP	CSIR-UGC	Govt. Of India- MHRD	2 nd April 2019

Teaching Profile

Teaching in general degree College			
Name of the post	Name of the Institution	Nature of the post	Duration
State Aided College Teacher-I	AKPC MAHAVIDYALAYA (Under the University of Burdwan)	Permanent	01/01/2020 To Till now
Guest Teacher	AKPC MAHAVIDYALAYA (Under the University of Burdwan)	Temporary	12/08/2013 To 31/12/2019
Teacher at Practice teaching in B.Ed.	Baranagar Vidyamandir	Temporary	12/01/2015 To 09/02/2015

Computer Knowledge & Computational Skill

- Six months' certificate course in Information Technology (CITA) from National Youth computer training centre.
- **Operating Systems:** Working experience in Windows and Linux environments.
- **Software tools:** Working experience with MS Office, Paints, Gnuplot, GAMESS, Molekel, Gaussian, Chemissian , Quantum espresso, ORTEP and Matlab
- **Programming Language:** Working experience in programming with C-language

I hereby state and acknowledge that the information provided is true and complete to the best of my knowledge.

Surajit Guin

Chapters in Books

Topic	Details of Publication
Quantum Chemical Structure & Plasmonic properties of a series of Planar and quasi planar Al_{13}^+ clusters	Published by Swami Shastrajnananda Principal Ramakrishna Mission Vidyamandira Belur Math, Howrah, 711202 Phone: (033) 2654-9181 Email: vidyamandira@gmail.com ISBN : 978-81-940096-3-4

Papers in Journals

Sl. No.	Title with page No.	Journal	ISSN	No. of co-author	DOI
1.	First report of a planar and a quasi-planar Al_{13}^+ cluster having localized antiaromatic deltas within an aromatic sea: NICS, ELF, AIM, and AdNDP bonding analysis 2018/ Volume 24/Article No-1-14	Journal of Molecular Modeling	ISSN NO: 0948-5023	Two	https://doi.org/10.1007/s00894-018-3875-5
2	Metal-ligand ring aromaticity in a 2D polymer used as a photosensitive electronic device 2019/ Vol-43, No-2710-2717	New Journal of Chemistry	ISSN NO: 1369-9261	Eight	https://doi.org/10.1039/c8nj05526b
3.	Planarity does not always mean	Journal of Molecular Graphics	ISSN NO:		https://doi.org/10.1016/j.jmgm.2020.107544

	higher aromaticity -intriguing metalloaromaticity of three Al_{13}^+ isomers <i>in</i> J. Mol. Graph. Model 2020/ Vol-97, No- 107544	and Modelling	1093- 3263	Two	
4.	Effect of alkali atom doping on the electronic structure and aromatic character of planar and quasi-planar Al_{13}^+ clusters 2021/ Vol-97, No- 107544	Journal of Molecular Modeling	ISSN NO: 0948- 5023	One	https://doi.org/10.1007/s00894-021-04845-7
5.	Electric field- driven up-and- down motion of the flexible tail of Al_{13}^+ cluster system—a nano- scale flipper 2023/ Vol-29, No- 383	Journal of Molecular Modeling	ISSN NO: 0948- 5023	Three	https://doi.org/10.1007/s00894-023-05781-4
6.	Quantifying plasmonic characteristics of pure and alkali doped aluminum clusters 2024/ Vol-127, No-108690	Journal of Molecular Graphics and Modelling	ISSN NO: 1093- 3263	Two	https://doi.org/10.1016/j.jmgm.2023.108690