

PROFILE OF THE TEACHERS

1. Name: Dr. Ambrish Kumar Srivastava
2. Father's Name: Mr. Durga Prasad Srivastava
3. Mother's Name: Mrs. Subhadra Srivastava
4. Department: Physics
5. Date of Joining the University: 02/07/2018

6. Total Teaching Experience: UG- 3 years 2 months PG- 4 years 8 months
7. Total Research Experience: 3 years 4 months
8. Area of Specialization: Computational Material Science
 Atomic & Superatomic Clusters
 Nanostructures & Cluster Assembled Materials
 Biophysics
9. Academic Qualifications:



UG	B. Sc. (PSM) -2008, From University of Lucknow with 66.22%
PG	M. Sc. (PHYSICS) -2010, From University of Lucknow with 73.75%
Ph.D.	Ph. D. (PHYSICS)- 2017, From University of Lucknow
PDF	DDU Gorakhpur University, Gorakhpur
Any Other	<ul style="list-style-type: none">• CSIR-NET (JRF)- All India Rank 18 held in June 2011• GATE-2011: All India Rank 134 organized by Ministry of Human Resource and Development, Government of India in Feb. 2011• JEST-2011: All India Rank 138 organized by Department of Atomic Energy, Government of India in Feb. 2011

10. International/National fellowship/financial support for advance studies/research

S. No.	Name of fellowship/financial support	Year of Award	National/International	Awarding Agency
1.	National Postdoctoral Fellowship (N-PDF)	2011	National	CSIR

11. International/National award/recognition for academics

S. No.	Name of award/recognition	Year of Award	Title of the innovation	National/International	Awarding Agency

12. Extension activity participation

S.No.	Name of activity	Year

If any award received-

S. No.	Name of activity	Name of award/recognition	Year of Award	National/International	Awarding Agency

13. Ph.D. supervised

S. No.	Name of the Ph.D. scholar	Title of the Thesis	Year of registration of the scholar	Year of award of Ph.D.

14. Research/Review Papers published

S. No	Title of paper	Name of the author/s	Name of Journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
						Link to website of journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
1.	Superhalogens as building blocks of a new series of superacids	Amrish Kumar Srivastava, Abhishek Kumar, Neeraj Misra	New Journal of Chemistry	2017	1144-0546	https://pubs.rsc.org/en/journals/journal/nj	https://pubs.rsc.org/en/content/articlelanding/2017/nj/c7nj00129k/unauth	Yes
2	Application of superhalogens in the design of organic superconductors	AK Srivastava, A Kumar, SN Tiwari, N Misra	New Journal of Chemistry	2017	1144-0546	https://pubs.rsc.org/en/journals/journal/nj	https://pubs.rsc.org/en/content/articlelanding/2017/nj/c7nj02868g/unauth	Yes

3.	Competition between alkalide characteristics and nonlinear optical properties in $OLi_3 \square M \square Li_3O$ (M= Li, Na, and K) complexes	AK Srivastava, N Misra	International Journal of Quantum Chemistry	2017	0020-7608	https://onlinelibrary.wiley.com/journal/1097461x	https://onlinelibrary.wiley.com/doi/abs/10.1002/qua.25313	Yes
4.	Functionalization of benzene by superhalogens	AK Srivastava, A Kumar, N Misra	Chemical Physics Letters	2017	0009-2614	https://www.sciencedirect.com/journal/chemical-physics-letters	https://www.sciencedirect.com/science/article/abs/pii/S0009261417300283	Yes
5.	A path to design stronger superacids by using superhalogens	Ambrish Kumar Srivastava, Abhishek Kumar, Neeraj Misra	Journal of Fluorine Chemistry	2017	0022-1139	https://www.sciencedirect.com/journal/journal-of-fluorine-chemistry	https://www.sciencedirect.com/science/article/abs/pii/S0022113917300179	Yes
6.	Superalkali@ C60–superhalogen: Structure and nonlinear optical properties of a new class of endofullerene complexes	AK Srivastava, A Kumar, N Misra	Chemical Physics Letters	2017	0009-2614	https://www.sciencedirect.com/journal/chemical-physics-letters	https://www.sciencedirect.com/science/article/abs/pii/S0009261417305262	Yes
7.	Structure, electronic properties and electronic excitation analyses of Si_60Si_60 dimer and Si_59AlSi_59P	Ambrish Kumar Srivastava, Sarvesh Kumar Pandey, Neeraj	Current Applied Physics	2017	15671739	https://www.journals.elsevier.com/current-applied-physics	https://www.sciencedirect.com/science/article/abs/pii/S1567173917302122	Yes

	complex	Misra						
8.	A computational study on semiconducting Si60, Si59Al and Si59P nanocages	AK Srivastava, SK Pandey, N Misra	Chemical Physics Letters	2018	0009-2614	https://www.journals.elsevier.com/chemical-physics-letters	https://www.sciencedirect.com/science/article/abs/pii/S0009261417310187	Yes
9.	Reduction of nitrogen oxides (NOx) by superalkalis	Amrish KumarSrivastava	Chemical Physics Letters	2018	0009-2614	https://www.journals.elsevier.com/chemical-physics-letters	https://www.sciencedirect.com/science/article/abs/pii/S0009261418301143	Yes
10.	Alkalized borazine: A simple recipe to design closed-shell superalkalis	Amrish Kumar Srivastava, Sugriva Nath Tiwari, Neeraj Misra	International Journal of Quantum Chemistry	2018	0020-7608	https://onlinelibrary.wiley.com/journal/1097461x	https://onlinelibrary.wiley.com/doi/abs/10.1002/qua.25507	Yes
11.	Organic superalkalis with closed-shell structure and aromaticity	Amrish Kumar Srivastava	Molecular Physics	2018	0026-8976	https://www.tandfonline.com/journals/tmph20	https://www.tandfonline.com/doi/abs/10.1080/00268976.2018.1438678	Yes
12.	Single- and double-electron reductions of CO2 by using superalkalis: An ab initio study	Amrish kumar Srivastava	International Journal of Quantum Chemistry	2018	0020-7608	https://onlinelibrary.wiley.com/journal/1097461x	https://onlinelibrary.wiley.com/doi/abs/10.1002/qua.25598	Yes

13.	C60 as Electron Acceptor and Donor: A Comparative DFT Study of Li@ C60 and F@ C60	Amrish Kumar Srivastava, Sarvesh Kumar Pandey, Anoop Kumar Pandey, Neeraj Misra	Australian Journal of Chemistry	2018	0004-9425	https://www.publish.csiro.au/CH	https://www.publish.csiro.au/ch/ch18391	Yes
14.	DFT Study on Planar (CaO) n Rings (n= 1–5) and Their Hydrogen Storage Behavior: Ca–O Versus Mg–O Clusters	Amrish Kumar Srivastava, Neeraj Misra, Sarvesh Kumar Pandey	Journal of Cluster Science	2018	1040-7278	https://www.springer.com/journal/10876	https://link.springer.com/article/10.1007/s10876-017-1306-x	Yes
15.	CO2-activation and enhanced capture by C6Li6: A density functional approach	Amrish Kumar Srivastava	International Journal of Quantum Chemistry	2019	0020-7608	https://onlinelibrary.wiley.com/journal/1097461x	https://onlinelibrary.wiley.com/doi/abs/10.1002/qua.25904	Yes
16.	BHx+ (x= 1–6) clusters: In the quest for superalkali cation with B-core and H-ligands	Amrish Kumar Srivastava	Chemical Physics	2019	0301-0104	https://www.sciencedirect.com/journal/chemical-physics	https://www.sciencedirect.com/science/article/abs/pii/S0301010419303234	Yes

17.	O _x H _{2x+1} ⁺ clusters: A new series of non-metallic superalkali cations by trapping H ₃ O ⁺ into water	Amrish Kumar Srivastava	Journal of Molecular Graphics and Modelling	2019	1093326 3, 1873424 3	https://www.sciencedirect.com/journal/journal-of-molecular-graphics-and-modelling	https://www.sciencedirect.com/science/article/abs/pii/S1093326319300245	Yes
18.	Ab initio investigations on non-metallic chain-shaped FnHn ⁺ 1+ series of superalkali cations	Amrish Kumar Srivastava	Chemical Physics Letters	2019	0009- 2614	https://www.sciencedirect.com/journal/chemical-physics-letters	https://www.sciencedirect.com/science/article/abs/pii/S0009261419301319	Yes
19.	Design of the NnH _{3n+1} ⁺ series of “non-metallic” superalkali cations	Amrish Kumar Srivastava	New Journal of Chemistry	2019	1144- 0546	https://pubs.rsc.org/en/journals/journal/nj	https://pubs.rsc.org/en/content/articlelanding/2019/nj/c8nj06126b/unauth	Yes
20.	Ab initio investigations on bimetallic mononuclear superalkali clusters	Amrish Kumar Srivastava	Chemical Physics Letters	2020	0009- 2614	https://www.journals.elsevier.com/chemical-physics-letters	https://www.sciencedirect.com/science/article/abs/pii/S0009261420309647	Yes
21.	MC ₆ Li ₆ (M = Li, Na and K): a new series of aromatic superalkalis	Amrish Kumar Srivastava	Molecular Physics	2020	0026- 8976	https://web.physics.udel.edu/research/molecular-physics	https://www.tandfonline.com/doi/abs/10.1080/00268976.2020.1730991	Yes
22.	(x = 1–5): a unique series of organic	Amrish Kumar Srivastava	Molecular Physics	2020	0026- 8976	https://web.physics.udel.edu/research/molecular-physics	https://www.tandfonline.com/doi/abs/10.1080/00268976.2020.1730991	Yes

	superalkali cations					physics	6.2019.1615648	
23.	Superalkali behavior of ammonium (NH ₄ ⁺) and hydronium (OH ₃ ⁺) cations: a computational analysis	Amrish Kumar Srivastava, Neeraj Misra, SN Tiwari	SN Applied Sciences	2020	2523-3971	https://www.springer.com/journal/42452	https://link.springer.com/article/10.1007/s42452-020-2080-1	Yes
24.	Enormously high second-order nonlinear optical response of single alkali atom decorated hexalithiobenzene	Amrish Kumar Srivastava	Journal of Molecular Liquids	2020	0167-7322	https://www.journals.elsevier.com/journal-of-molecular-liquids	https://www.sciencedirect.com/science/article/abs/pii/S0167732219354960	Yes
25.	Ionization of NO by superhalogens: DFT and QTAIM approaches	Amrish Kumar Srivastava	Main Group Chemistry	2021	17451167, 10241221	https://www.iospress.com/catalog/journals/main-group-chemistry	https://content.iospress.com/articles/main-group-chemistry/mgc210004	Yes
26.	DFT and QTAIM studies on the reduction of carbon monoxide by superalkalis	Amrish Kumar Srivastava	Journal of Molecular Graphics and Modelling	2021	1093-3263	https://www.sciencedirect.com/journal/journal-of-molecular-graphics-and-modelling	https://www.sciencedirect.com/science/article/abs/pii/S1093326320305544	Yes

27.	Atomic Clusters: Theory & Experiments	Amrish Kumar Srivastava, Iwona Anusiewicz, Suzana Velickovic, Wei- Ming Sun, Neeraj Misra	Frontiers in Chemistry	2021	2296- 2646	https://www.frontiersin.org/journals/chemistry	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8592303/	Yes
28.	External electric field modulated second-order nonlinear optical response and visible transparency in hexalithiobenzene	Amrish Kumar Srivastava	Journal of Molecular Modeling	2021	0948- 5023, 1610- 2940	https://www.sciencedirect.com/journal/journal-of-molecular-graphics-and-modelling	https://link.springer.com/article/10.1007/s00894-020-04626-8	yes
29.	Lithiated Graphene Quantum Dot and its Nonlinear Optical Properties Modulated by a Single Alkali Atom: A Theoretical Perspective	Authors Amrish Kumar Srivastava	Inorganic chemistry	2021	0020- 1669	https://pubs.acs.org/journal/inocaj	https://pubs.acs.org/doi/abs/10.1021/acs.inorgchem.0c03453	Yes
30.	Superhalogens as Building Blocks of Ionic Liquids	AK Srivastava, A Kumar, N Misra	The Journal of Physical Chemistry A	2021	1089- 5639	https://pubs.acs.org/journal/jpcafh	https://pubs.acs.org/doi/abs/10.1021/acs.jpca.1c00599	Yes

31.	1-Alkyl-3-methylimidazolium belong to superalkalis	AK Srivastava	Chemical Physics Letters	2021	0009-2614	https://www.sciencedirect.com/journal/chemical-physics-letters	https://www.sciencedirect.com/science/article/abs/pii/S000926142100453X	Yes
32.	M(BO) _{k+1} – Anions: Novel Superhalogens Based on Boronyl Ligands	Ambrish Kumar Srivastava	The Journal of Physical Chemistry A	2022	1089-5639	https://pubs.acs.org/journal/jpcafh	https://pubs.acs.org/doi/abs/10.1021/acs.jpca.1c08773	Yes
33.	On the surface interaction of C ₆₀ with superalkalis: a computational approach	AK Srivastava	Molecular Physics	2021	0026-8976	https://www.tandfonline.com/loi/tmph20	https://www.tandfonline.com/doi/abs/10.1080/00268976.2021.1999519	Yes
34.	Prediction of novel liquid crystalline molecule based on BO ₂ superhalogen	AK Srivastava	Journal of Molecular Liquids	2021	1873-3166	https://www.sciencedirect.com/journal/journal-of-molecular-liquids	https://www.sciencedirect.com/science/article/abs/pii/S0167732221026933	Yes
35.	X (CH ₃) _{k+1} ⁺ Superalkali Cations (X= F, O and N) with Methyl Ligands	Ambrish Kumar Srivastava, Harshita Srivastava, Aditya Tiwari, Neeraj Misra	Chemical Physics Letters	2022	0009-2614	https://www.journals.elsevier.com/chemical-physics-letters	https://www.sciencedirect.com/science/article/abs/pii/S0009261422000197	Yes
36.	Superalkalis for the Activation of Carbon Dioxide: A Review	Harshita Srivastava, Ambrish K. Srivastava	Frontiers in Physics	2022	2296-424X	https://www.frontiersin.org/journals/physics	https://www.frontiersin.org/articles/10.3389/fphy.2022.870205	Yes

15. Books and chapters in edited volumes/ books published

S.No	Title of the book	Title of the chapter	National/International	Year of Publication	ISBN number	Affiliating institute at the time of publication	Name of the publisher
1.	DFT Based Studies on Bioactive Molecules		International	2021	9789814998369	DDU Gorakhpur University	Bentham Science Publishers Ltd., Singapore
2	Atomic Clusters: Theory & Experiments		International	2021	9782889719204	DDU Gorakhpur University	Frontiers Media SA, Laussane

16. Papers in national/international conference proceedings

S.No.	Title of the Proceeding of the conference	Name of the conference	National /International	Year of Publication	ISBN/ISSN Number of the proceeding	Affiliating institute at the time of publication

17. Professional development Programmes, viz Orientation programme, Refresher course, Short term course, Faculty development Programmes

S.No	Year	Title of the Professional Development Programme	Date and Duration (from- to)
1.	2020	Managing Online Classes and Co-Creating MOOCs Organized by Teaching Learning Centre, Ramanujan College, University of Delhi	20/04/2020 - 06/05/2020
2.	2020	117 th Orientation Programme Organized by UGC-HRD Centre, DDU Gorakhpur University	04/01/2020 - 24/01/2020
3	2021	6 th Refreshers Course in Information and Communication Technology Organized by UGC-HRD Centre, DDU Gorakhpur University	21/09/2021 – 10/10/2021

18. Research project sponsored by government agencies

S.No.	Name of the Principal Investigator	Name of the research project	Name of funding agency	Amount/Fund provided	Year of sanction	Duration of project	Status (completed/ongoing)
1.	Ambrish Kumar Srivastava	Superatoms as Building Blocks of Novel Materials for Various Applications: A Computational Approach	UGC	Rs. 800000/-	2019	3	Ongoing

19. Research project sponsored by non-government sources such as industry, corporate houses, international bodies

S.No.	Name of the Principal Investigator	Name of the research project	Name of funding agency	Amount/Fund provided	Year of sanction	Duration of project	Status (completed/ongoing)

20. Patents filed/granted

S.No.	Name of Patent filed/granted	Patent number	Year of filling/award/published of patent

21. Collaborative activities with other institutions/ research establishments/ industry for research and academic development

Title of the collaborative activity	Name of the Collaborating agency	Year of collaboration	Duration	Nature of activity

	with contact details			

22. Functional MoUs with institutions/industries in India and abroad for internship, on the job training, project work, student/faculty exchange and collaborative research

Name of the organisation/industry With whom MoU is signed	Year of signing MoU	Duration of MoU	Actual activities Under each MoU Year wise

23. E-content is developed

i - For e-PG- Pathshala, ii- For CEC (Under Graduate), iii- For SWAYAM, iv- For other MOOCs platform, v- For NPTEL/NMEICT/any other Government Initiatives)

Name of the Module developed	Platform on which module is developed	Date of launching e content	Link to the relevant document and facility available in the institution	List of e-content development facility available	Provide link to videos of the media centre and recording facility

24. Consultancy and corporate training-

Consultancy

Name of consultancy project	Consulting/sponsoring agency with contact details	Year	Revenue generated (Rs.)

Corporate training

Title of corporate training program	Agency seeking training with contact details	Year	Revenue generated (Rs.)	Number of trainees

25. Details of Conference/Seminar attended-

Year	Name of the Conference/workshop	Internation/ National/ State	Name of the professional body for which membership fee provided	Amount support (INR)

26. Any other information: