

Curriculum vitae

1. Name : Dr. SWINDER JEET SINGH KALRA
2. Fathers Name : Dr. SANT SINGH KALRA
3. Date of Birth : 30-09-1964
4. Address : 120/153, Lajpat Nagar, Kanpur – 208005
5. Mobile Number : 9415725582, 9580386806
6. Email ID : sskdav@gmail.com
7. Current Designation : Associate Professor, Dept. of Chemistry, DA-V College, Kanpur
8. Qualification : M.Sc., Ph.D.

Class	Board/University	Year	Division
High School	C.B.S.E.	1979	Ist
Intermediate	C.B.S.E.	1981	Ist
B.Sc.	Kanpur University	1983	Ist
M.Sc.	Kanpur University	1985	Ist
Ph.D.	Kanpur University	1988	

* Central Board of Secondary Education

9. **Ph.D. Topic:** Study On The Complexing Properties Of N,N'-Dibenzylthiourea & 1-Allyl-2-tetrazoline-5-thione With Metal Ions.
9. Description of Refresher and Orientation Courses attended.
 - A. 29-10-2001 – 22-11-2001 – Aligarh Muslim University.
 - B. 24-11-2001 – 14-12-2001 – DDU. Gorakhpur University.
10. **List of Names of Research Scholar worked under supervision with Title of the approved synopsis of research work.**

A.	Name of Research Scholar	➤	SYEDA HUMA HADAR ZAIDI (K/2001/242) Submission – Dec.1999, Award – 20.12.2003
	Title of Research Work	➤	Synthesis of α -Hydroxy – β Amino Containing Di-And Tripeptides as HIVproteaseInhibitors
B.	Name of research Scholar	➤	MANOJ KUMAR Submission – 13.12.2007, Award- 19.08.2011
	Title of research work	➤	Aziridines as a versatile building blocks in organic synthesis

11. DESCRIPTION OF PUBLISHED RESEARCH PAPERS.

1. G.S. Johar, S. Bhatia and S.S. Kalra. *An inexpensive and simple technique to detect trace amount of water in Aviation and Non-aviation Fuels*, Proc. 9th Australian Symposium on Analytical Chemistry, Sydney, 27th April-1st May **1987**, Vol-1, pp. 226-229.
2. T. Punniyamurthy, Swinder Jeet Singh Kalra and J. Iqbal, *Cobalt(II) catalysed Synthesis of 1, 2- Diones from Aromatic Aldehydes in the presence of n – Butanal*. Tetrahedron Lett., **1994**, 35, 2959. ISSN No.0040-4039
3. Swinder Jeet Singh Kalra, T. Punniyamurthy, and J. Iqbal, *Cobalt Catalysed Oxidation of Secondary Alcohols with Molecular Oxygen in the presence of 2 – methyl propanal*. Tetrahedron Lett., **1994**, 35, 4847. ISSN No.0040-4039
4. V. Khanna, P. Tamilselvan, Swinder Jeet Singh Kalra and J. Iqbal. *Cobalt(II) Porphyrin catalysed Selective Functionalization of Alkanes with Sulfurylchloride : A Remarkable Substituent Effect*. Tetrahedron Lett.,

5. T. Punniyamurthy, Swinder Jeet Singh Kalra and J. Iqbal; *Cobalt(II) Catalyzed Biomimetic Oxidation of Hydrocarbons in the presence of Dioxigen & 2-methylpropanal*, Tetrahedron Lett., **1995**, 36, 8497. ISSN No.0040-4039
6. T. Punniyamurthy, M.M. Reddy, Swinder Jeet Singh Kalra and J. Iqbal; *Cobalt(II) Schiff Base Catalyzed Biomimetic Oxidation of Organic Substrates with Dioxygen* J. Pure Appl. Chem. **1996**, 68, 619. ISSN No.0033-4545
7. T. Punniyamurthy, P. Asthana, Swinder Jeet Singh Kalra and J. Iqbal; *Formation and Reactivity of Cobalt(III) Dioxygen Complexes Promoted by 2-Methylpropanal: Oxidation of Alkenes & Alcohols*, J. Proc. Ind. Nat. Sci. Aca., , **1996**, 335-342. ISSN No.0973-7677
8. H.Z. Syeda Huma, Raj Kumar Haldar, Swinder Jeet Singh Kalra, Jagattaran Das and Javed Iqbal, *Cu(I)-catalyzed three component coupling protocol for the synthesis of quinoline derivatives*, Tetrahedron Letters 43 (**2002**) ISSN No.0040-4039.
9. Manoj kumar, Shikha Gandhi, Swinder jeet singh kalra, and Vinod K Singh, *Efficient Ring Opening of Aziridines with Carboxylic Acids*, **Synthetic Communication**, 38; 1527-1532, **2008**. ISSN No.0039-7911
10. R.K. Singh, S.S.Kalra, *Characterization Of Conjugate Copolymer Complex Of Styrene Malic Anhydride And Dimethylsulphoxide (DMSO)* Lucknow Journal of Science, Vol.5, No.1& 2, Jan-Dec **2008**.
11. R.K. Singh, S.S.Kalra, *Study On Characterization of Phenolic Medicine Binds With Copolymer Of Poly Styrene Malic Anhydride*, Lucknow Journal of Science, Vol.6, No.1&2, Jan-Dec **2009**.
12. Neerja Gupta, Goldy Saxena and S.S.Kalra, *Antimicrobial activity pattern of certain terpenoids* International journal of pharma and bio sciences, page 87-91, vol-2, issue-1, jan-mar **2010**. ISSN No.0975-6299
13. Pratibha Mishra ,S.S.Kalra, *Study of the presence of zooplankton protozoans in river Ganga in Kanpur* , Indian Research Communication, Issue 4, page 12-13,**2010**. ISSN No.0973-9661
14. Pratibha Mishra ,S.S.Kalra, *Study on abundance of cruspaceansing river Ganga in Kanpur*, Indian Research Communication, Issue 4, page 14-15, **2010** (.ISSN no.0973-9661)
15. Jatin K. Srivastava, Swinder J.S. Kalra, Kartikeya Shukla. *Action of cations on the leachability of bio-stimulants in a soil column at soil-water interface and its impact on surface water quality*. International Journal of Hydrology Science and Technology.**2011** - Vol. 1, No.3/4 pp. 252 – 259 ISSN No.2042-7808
16. Pallab Bhattacharya. Chapal Kumar Das & Swinderjeet Singh Kalra. *Graphene and MWCNT: Potential Candidate for Microwave Absorbing Materials*. Journal of Materials Science Research. Vol. 1, No. 2; April **2012**. ISSN No.1927-0585
17. Soumen Giri, Chapal Kumar Das & Swinderjeet Singh Kalra. *Preparation and Characterization of the Cobalt Doped Polyaniline/MWCNT Nanocomposites for Supercapacitor Application*, Journal of Materials Science Research; Vol. 1, No. 3, **2012**. ISSN No.1957-0585
18. Pratibha Mishra, Rashmi Srivastava, SS Kalra. *Role of L. thyroxine and Testosterone on body weight of castrated Rain Quail Coturnix Coromandelica Vol. 1(2)*, Periodic Research, 27 -28:**2012**, ISSN No. 2231-0045
19. Alka Dubey, SP Agarwal, Swinderjeet Singh Kalra, Neelesh Yadav. *Novel Strategy for Computational Identification of Micro RNA (miRNA) from Poliovirus*. *Research and Reviews: Journal of Computational Biology*. ISSN No. 2319-3433 : **2013**
20. Alka Dwivedi ,Vijaylaxmi Saxena , Shrasti Gupta, Swinderjeet Singh Kalra. *New Strategy to Find Out Microwave –Assisted Synthesis of B-Phenyl Isoleucine Dipeptides as a Potential Inhibitor Candidate for HIV1 Protease and Amino Peptides* . International Journal of Pharmaceutical Science Invention. ISSN (Online): 2319 – 6718, ISSN (Print): 2319 – 670X www.ijpsi.org, Volume 2 Issue 6ll **June2013** ll PP.01-09

21. Goutam Hatui, Chapal Kumar Das, Swinderjeet Singh Kalra, Tanya Basu, C.Y. Yue. *Effect of Mixing Sequence of Polymer and Nanofillers on Thermo Mechanical as well as Morphological Property of the Nanocomposites*. Journal of Materials Science Research Vol 2, No 1 (2013). ISSN No.1927-0585
22. Debasis Ghosh, Soumen Giri, Swinderjeetsingh Kalra, Chapal Kumar Das. *Synthesis and Characterisations of TiO₂ Coated Multiwalled Carbon Nanotubes/Graphene/Polyaniline Nanocomposite for Supercapacitor*. Applications Scientific research open access, PP. 70-77, Pub. Date: June 27 2012, DOI: 10.4236/ojapps.2012. Vol.2 No.2, June 2012. ISSN No.2165-3917
23. Parthajit Pal, Mrinal Kanti Kundu, Swinderjeetsingh Kalra, Chapal Kumar Das; *Mechanical and Crystalline Behavior of Polymeric Nanocomposites in Presence of Natural Clay*, Scientific research, open access, PP. 277-282 DOI10.4236/ojapps.2012.24041. ISSN No.2165-3917
24. Pratibha Mishra, Rajesh Yadav, MK Sinha, Swinderjeet Singh Kalra. *To study the qualitative composition of acarina, collembola and other soil arthropods in different soils of indo -gangetic region of Kanpur*. Life Science Bulletin 10(2), 241 -244. ISSN No. 973-5453 (2013)
25. J. Srivastava•R. Naraian•**S. J. S. Kalra**•H. Chandra. *Advances in microbial bioremediation and the factors influencing the process*, Int. J. Environ Sci. Tech 11(6) 1787-1800, DOI 10.1007/s13762-013-0412-z. 2014. ISSN No. 1735-1472
26. Jatin Srivastava•Harish Chandra•Anant R. Nautiyal•Swinder J. S. Kalra. *Antimicrobial resistance (AMR) and plant-derived antimicrobials (PDAMs) as an alternative drug line to control infections*, 3 Biotech 4(5) 451-460. DOI 10.1007/s13205-013-0180-y. ISSN No. 2190-5738,(2014)
27. Jatin Srivastava•Swinder J. S. Kalra Ram Naraian. *Environmental perspectives of Phragmites australis (Cav.) Trin. Ex. Steudel.* (Springer) Appl Water Sci 4(3) 143-202.DOI 10.1007/s13201-013-0142-x. 2014. ISSN No.2190-5495
28. Alka Dubey, Swinderjeet Singh Kalra, Nandita Trivedi. *Computational prediction of miRNA in Gmelina arborea and their role in human metabolomics*. American Journal of Bioscience and Bioengineering ,2013; 1 (5): 62-74 .Published online September 30, 2013 (<http://www.sciencepublishinggroup.com/j/bio>) doi: 10.11648/j.bio.20130105.12. ISSN No.2328-5885
29. Alka Dubey, Swinder Jeet Singh Kalra. *Computational comparative modeling and visualization for HIV1 and HIV2 proteins via the software SYBYL-X* ,International Journal of Scientific and Research Publications, Volume 3, Issue 10, October 2013, ISSN 2250-3153
30. Alka Dubey, Uma Shanker, Swinderjeet Singh Kalra, Neelesh Yadav, *Viral micro RNA analysis via the bioinformatics approaches basis on their Statistics values*, American Journal of Biological, Chemical and Pharmaceutical Sciences ,Vol. 1, No. 6, October 2013, PP: 42-66 , ISSN: 2328 – 6814.
31. **Chapter in Book**. Jatin Srivatava, Harish Chandra, Anant R. Nautiyal and Swinder J. S. Kalra. *Recompense of C3 and C4 Plant systems Exposed to Heavy Metals for Phtoextraction at at Elevated Atmospheric CO₂ and at Elevated Temperature*. ENVIRONMENTAL CONTAMINATION, INTECH, 2012. ISBN No. 978-953-51-0120-8
32. Santram Dwivedi, S.S.Kalra. *Safety Evaluation of Synthetic Detergent*, Acta Ciencia Indica,Vol XXXVIII C, No.1, 61(2012), ISSN No. 0253-7338
33. Mrinal Kanti Kundu; Parthajit Pal; Goutam Hatui; Chapal Kumar Das; Swinderjeet Singh Kalra, *"Investigation on Crystallinity, Performance and Processability of Naturally Occurring Halloysite Nanotubes Compatibilized sPS/LCP Thermoplastic Nanocomposites"*. Journal of Polymer Research,Vol 22 22-29, Issue 3, March 2015. Issn:1022-9760.
34. CHAPAL DAS, ANIRBAN MAITRA, PARTHAJIT PAL, and Swinderjeetsingh Kalra. *"EFFECT OF HNTs AND ORGANICALLY MODIFIED HNTs ON THE PROPERTIES OF PEEK/ LCP BLENDS IN PRESENCE OF TUNGSTEN SULPHIDE"* .International Journal of Engineering Sciences & Research Technology, 3(8): August 2014 .ISSN:2277-9655.

35. Manas Mandal, D Ghosh, Swinderjeet Singh Kalra, Chapal Kumar Das, *High_Performance_Supercapacitor_Electrode_Material_based_on_Flower_like_Mo2_Reduced_Graphene_Oxide_Nanocomposite*. International Journal of Latest Research in Science and Technology, Vol 3, Issue 3: Page No. 65-69, May-june **2014**. ISSN:2278-5299.
36. Alka Dubey, Neelesh Yadav, Swinderjeet Singh Kalra. *Analysis of protein modeling for envelope glycoprotein GP120 for HIV via bioinformatics approaches*, International Research Journal of Virology Vol 1(1), 02 -06 : **2014**, ISSN No. 2326-7193
37. Kanak Saxena, C.S. Bisaria, S.J.S. Kalra, A.K. Saxena. *Synthesis of some novel silicone-imide hybrid inorganic-organic polymer and their properties*. Progress in Organic Coatings, <http://dx.doi.org/10.1016/j.porgcoat.2014.08.016>. 2015 Progresses in Organic Coatings (Impact Factor: 2.36). 01/**2015**; 78:234-238. DOI: 10.1016/j.porgcoat.2014.08.016. ISSN: 0300-9440
38. Chapal Kumar Das, Benorita Prusty, Munesh Chandra Adhikary, Swinderjeet Kalra *CHROMIUM DOPED POLYANILINE/MWCNTS NANOCOMPOSITE FOR SUPERCAPACITOR ELECTRODE MATERIALS*. (International) Journal of Engineering Sciences & Research Technology 4(4), 233 -328 ISSN: 2277-9655 (**2015**)
39. Jatin Srivastava, Harish Chandra, Nandita Singh, Swinder J. S. Kalra. *Understanding the Development of Environmental Resistance among Microbes: A Review*, (WILEY) Clean - Soil, Air, Water 44 (7), 901 -908: **2016**, ISSN No. 1863-0669
40. Jatin K Srivastava, Harish Chandra, Swinder JS Kalra, Pratibha Mishra, Hena Khan, Poonam Yadav, *Plant -microbe interaction in aquatic system and their role in the management of water quality: a review* (SPRINGER) Applied water science 7 (3), 1079 -1090 : **2017**, ISSN No. 2190-5495
41. A Dibyendu, S. Bag, S.J.S. Kalra. *Synthesis of strong and stretch able double network (DN) hydrogels of PVA - borax and P (AM -co - HEMA) and study of their swelling kinetics and mechanical properties*, ELSEVIER Polymer 119, 1 -11: **2017**, ISSN No. 0032-3861
42. Alka Dubey Vinita Srivastava, Shashi Prabha Agrawal, Swinder Jeet Singh Kalra. *Computer aided drug designing for proteasome inhibitor to find out potential drug candidate for multiple myeloma*. Medcrave, MOJ Toxicology 4(5), 352 -356: **2018**. ISSN No. 2379-6294
43. Alka Dubey Vinita Srivastava, Shashi Prabha Agrawal, Swinder Jeet Singh Kalra. *Modern approaches for drug validation on behalf of computer aided drug designing for Adenocarcinoma*, Medcrave MOJ Toxicology 5(1) 53-60: **2019** ISSN No. 2379-6294
44. Trivedi N and Dubey A Srivastava V, Agarwal SP, Singh Kalra SJ. *Computational Remodeling Mechanism Analysis of Three HIV Enzyme Partners (Protease (PR), Revers Transcriptase (RT) and Integrase (IN) on Behalf of Structural and Functional Analysis*, Medwin Virology & Immunology journal, 1 -17 : **2020**. ISSN No. 2577-4379
45. Kanchan Chaurasia and Swinderjeet Singh Kalra Vinita Srivastava, Shashi Prabha Agrawal, Nandita Trivedi, Alka Dubey , Sunil Kumar Mishra, *"Identification of SARS -CoV -2 in human genome based on Protein Dynamics Conversion and Target Gene Marking via Bioinformatics Approaches"*, Medwin Bioinformatics & Proteomics open Access journal 5(1), 1 -13 : **2021**. ISSN No. 2642-6129
46. Swinder Jeet Singh Kalra, Hari Shankar, Nasim Mansoori, Dablu Lal Gupta, Antibiotic-resistant bacteria originating from the gut may modulate the mucosal immune response during sepsis and septic shock, Drug Target Insights Volume 16, Issue 1, Page 1 to 7: **2022**. ISSN 1177-3928 | DOI: 10.33393/dti.2022.2520
47. Sunil Kumar Mishra, Udai Pratap Singh, Swinder Jeet Singh Kalra, RENEWABLE ENERGY IN INDIA CURRENT STATUS AND FUTURE POTENTIAL - A REVIEW, International Journal of Research and Analytical Reviews (IJRAR) | IJRAR.ORG | Volume 9 Issue 3, Pages 718-727: **2022**, ISSN: 2348-1269, P-ISSN: 2349-5138 | Registration ID: 253256
48. Vinita Srivastava , Udai Pratap Singh, Sunil Kumar Mishra, Swinder Jeet Singh Kalra , Rajat Kumar, Lokesh Saxena and Rajesh Kumar, Membranes, Membranes Phenomena and Applications -A Review, International Journal of Research and Analytical Reviews (IJRAR) | IJRAR.ORG | Volume 9, Issue 3, Pages 403 – 467: **2022**, ISSN: 2348-1269, P-ISSN: 2349-5138 | Registration ID: 253256

12. BOOKS PUBLISHED

Name of Book	Class	Publication	Year
SYSTEMATIC ORGANIC CHEMISTRY (Vol-1) ISBN : 9789380124322	B.Sc I	Anusandhan Publication, Kanpur	2004
SYSTEMATIC ORGANIC CHEMISTRY (Vol-3) ISBN : 9789380124131	B.Sc III	Anusandhan Publication, Kanpur	2004
SYSTEMATIC ORGANIC CHEMISTRY (Vol-2) ISBN : 9789380124230	B.Sc II	Anusandhan Publication, Kanpur	2005
SYSTEMATIC CARBONIC RASAYAN (Vol-1) ISBN : 9789380124308	B.Sc I	Anusandhan Publication, Kanpur	2004
SYSTEMATIC CARBONIC RASAYAN (Vol-2) ISBN : 9789380124285	B.Sc II	Anusandhan Publication, Kanpur	2008
SYSTEMATIC CARBONIC RASAYAN (Vol-3) ISBN : 9789380124155	B.Sc III	Anusandhan Publication, Kanpur	2007
PROBLEMS AND THEIR SOLUTIONS IN STEREOCHEMISTRY,	M.Sc.	Anusandhan Publication , Kanpur	2008
STRUCTURAL AND SPECTRAL PROBLEMS IN ORGANIC CHEMISTRY	M.Sc.	Anusandhan Publication, Kanpur	2008
UNIFIED ORGANIC CHEMISTRY ISBN: 9789380129181	M.Sc.	Anusandhan Publication , Kanpur	2012
Molecular Symmetry in Chemistry Via Group Theory ISBN: 9789381162927	M.Sc.	Ane Books Pvt. Ltd. New Delhi	2013
Artificial Intelligence with bioinformatics via the machine learning approaches- Lambert Academic Publishing ISBN: 9783659453007	M.Sc.	Lambert Academic Publishing	2013
Modern approaches of drug designing for HIV-2 ISBN: 9783659502231	M.Sc.	Lambert Academic Publishing	2013
Handbook of Organic Chemistry (Problem's and their Solution) ISBN : 9789380124209	M.Sc.	Anusandhan Publication , Kanpur	2017
Organic Synthesis-1 ISBN: 9789380124506	M.Sc.	Anusandhan Publication , Kanpur	2020
SYSTEMATIC PRACTICAL CHEMISTRY. Vol.1	B.Sc I	Anusandhan Publication, Kanpur	2004
SYSTEMATIC PRACTICAL CHEMISTRY. Vol.2	B.Sc II	Anusandhan Publication, Kanpur	2004
SYSTEMATIC PRACTICAL CHEMISTRY. Vol.3	B.Sc III	Anusandhan Publication, Kanpur	2006

13. Life member of different organizations:

Membership of Professional Bodies:-

Name	Place	Membership Type
Indian Science Congress	Kolkata	Life Member L11705
Chemical Research Society of India	IISC, Bangalore	Life Member LM958
Indian Association of Chemistry Teacher	Mumbai	Life Member LM493
I S T R C	Bhubaneswar	Life Member LM362
Academy of microscope science and technology	DMSRDE Kanpur	Life Member LM0007
Vigyan Bharti	Banglore	Life Member LM0007