

DR. PANKAJ SHARMA

***Assistant Professor & Head,
Department of Chemistry,
Khalsa College, Garhdiwala,
Hoshiarpur (Punjab).
Phone: 09034747388***

E-mail: pankz.chem@gmail.com



AREAS OF SPECILIAZATION/ RESEARCH:

ORGANIC CHEMISTRY (Natural Product Chemistry)

Ph.D. THESIS TITLE:

PHYTOCHEMICAL INVESTIGATION AND BIOLOGICAL ACTIVITIES OF SOME *SENECIO* SPECIES FROM NORTH-WESTREN HIMALAYAN REGION

M.Phil. THESIS TITLE:

A STUDY ON PARTIAL MOLAR VOLUME AND VISCOSITY β -COEFFICIENT OF OXALIC ACID AND AMMONIUM OXALATE IN AQUEOUS MIXTURE OF THF (TETRAHYDROFURAN)

TEACHING EXPERIENCE (U.G & P.G. Classes)

(More than 14 YEARS)

- Assistant Professor and Head, Department of Chemistry, Khalsa College, Garhdiwala (July. 24, 2018 – Till date)
- Assistant Professor, Department of Chemistry, Maharishi Markendeshwar University, Ambala (Aug. 8, 2013 – July. 18, 2018)
- Assistant Professor, Department of Chemistry, Shoolini University, Solan, H.P. (Oct.19, 2010- Aug. 7, 2013)
- Lecturer Chemistry, Govt. Sen. Sec. School, Thural, H.P (June, 2007 – August 12, 2009)

OTHER EXPERIENCE:

- Coordinator IQAC, Khalsa College, Garhdiwala.
- Member of Board of Studies in M.Sc. Environment Science and Solid Waste Management, Panjab University, Chandigarh.
- Coordinator of All India Survey on Higher Education (AISHE).
- In Charge of Career Guidance and Placement cell, Khalsa College, Garhdiwala.
- In Charge of Anti Drugs Committee, Khalsa College, Garhdiwala.
- College Nodal Officer of Buddy group Program (Govt. of Punjab).
- Member of Research/Seminar and CAS Committee, Khalsa College, Garhdiwala.
- In Charge UGC related matters, Khalsa College, Garhdiwala.

- Member of Construction Committee, Khalsa College, Garhdiwala.
- Head, P.G. Department of Chemistry, Khalsa College, Garhdiwala.
- Evaluator for Final semester end examination (B.Sc & M.Sc. Classes) of Panjab University, Chandigarh.
- Paper setter for Final Examination of SGTB College (An Autonomous Institute) Sri Anandpur Sahib.
- Former member of Board of Studies, MM University, Sadopur, Ambala.
- Former member of Research Advisory Committee, MM University, Sadopur, Ambala.
- Completed Six month Project of Rs. 50000/- on Medicinal Plants at MM University, Sadopur, Ambala.
- Worked as Central Superintendent in Final examination of MM University, Sadopur, Ambala.
- Worked as Deputy Superintendent in End semester examination of MM University, Sadopur, Ambala.
- Membership of Technical Review Committee, Natural Product Research (Impact factor-2.862).
- Membership of Technical Review Committee, Journal of Applied Pharmaceutical Science.

INSTRUMENTS HANDLED:

- FT-IR Spectrometer
- UV-visible Spectrophotometer
- Bulk density Analyzer
- HPLC
- GC-MS

EDUCATIONAL QUALIFICATIONS:

- **Ph.D. Organic Chemistry (2016):** from Kumaun University, Nainital with course work.
- **M.Phil. Chemistry (2008)** from Vinayaka Mission University, Salem (TN) India with 63%.
- **M.Sc. Chemistry (2007)** with specialization in Organic Chemistry from Agra University, Agra (U.P) –India with 59.5%.
- **B.Ed. (2005)** from University of Kashmir, Shrinagar (J&K) – India with 71%.
- **B.Sc. (Non-Medical) (2003)** from Himachal Pradesh University, Shimla (HP) – India with 52.6%.

OTHER QUALIFICATION:

- Advanced diploma in Computer application (2001) from NIIT, Sujampur Tihra (H.P.).

WORKSHOP/CONFERENCE/SEMINAR ORGANIZED:

- National Workshop cum Seminar on Advances in Electron Microscopy & Allied Fields” at Shoolini University of Biotechnology and Management Sciences, Solan, H. P., September 23-29, 2011.
- 1st annual conference of HSCA entitled “Science: Emerging Scenario and Future Challenges” at Shoolini University, Solan, March 8-10, 2013.
- National Seminar On Advances in Environment Sciences” at Shoolini University, Solan, H.P., Aug. 24, 2012.
- National conference on Current Constraints in agriculture & Environment at Khalsa College, Garhdiwala., July 30, 2021.
- One day Seminar on International migration of youth from Punjab: Causes and Consequences at Khalsa College, Garhdiwala., April 27, 2022.
- Organizing Secretary in College Development Council (Panjab University) sponsored National Conference on “Innovations in Chemical and Environmental Sciences” (ICES – 2023), at Khalsa College, Garhdiwala. (Feb. 17th 2023).
- Member of Organizing Committee in One Day National Seminar “India @ 75: Status of Women in Independent India with special reference to North Western States at Khalsa College, Garhdiwala. (May, 8th 2023).

RESEARCH PAPERS: 12

Sr. No	Author (s)	Year	Title	Complete Reference of Journal/ conference	Referred /Indexed /Impact Factor
	Surbhi Soni, Gunjan Chauhan, Bhawna Pareek, Pankaj Sharma , Rajan Chopra	2022	Binary Liquid Mixtures Nonanol and Decanol with their Thermodynamic and Transport behavior: A Review	Research Journal of Chemistry & Environment.	Scopus Indexed ISSN: 0972-0626
1.	Rajni Kant Sharma, Harpreet Kaur, Manjeet Singh, Manoj Kumar, Rabia Sharma, G.C. Shah and Pankaj Sharma*	2019	Chemical Composition and Antimicrobial properties of <i>Anaphalis triplinervis</i> (Asteraceae) essential oil from Western Himalaya	Chemistry of Natural Compounds, 55, 751-753	0.809
2	Surbhi Soni, Rabia Sharma, P. K. Chauhan and Pankaj	2018	Comparative Study of Phytochemical and Antioxidant Activities of Two Endangered	International Journal of Green and Herbal	Referred and Indexed

	Sharma*		Medicinal Plants of Western Himalayas	Chemistry, 7, 1, 012-019.	ISSN: 2278-1862
3.	Surbhi Soni and Pankaj Sharma*	2018	Densities, Speeds of Sound and Viscosities of Binary Mixtures of Nonan-1-ol with o-Chlorotoluene, m-Chlorotoluene and p-Chlorotoluene at $T = (298.15, 303.15 \text{ and } 308.15) \text{ K}$	Journal of Applicable Chemistry, 7, 1, 195-203.	Referred and Indexed E-ISSN: 2278-3229
4.	P. Sharma* , G. C. Shah, R. Sharma, P. Dhyani	2016	Chemical Composition and Antibacterial Activity of Essential Oil of <i>Nepeta graciliflora</i> Benth (Lamiaceae).	Natural Product Research, 30, 11, 1332–1334 (2016)	2.2
5.	Pankaj Sharma* & G.C. Shah	2015	Composition and Antioxidant Activity of <i>Senecio nudicaulis</i> Wall. ex DC. (Asteraceae): A Medicinal Plant Growing Wild in Himachal Pradesh, India.	Natural Product Research, 29(9), 883–886 (2015)	2.2
6.	Sushma Semwal, Pankaj Sharma , Manoj Kumar & Rajni Kant Sharma	2015	Chemical constituents from rhizomes of <i>Cautleya spicata</i> (Sm.) Baker (Zingiberaceae).	Natural Product Research, 29, 21, 2030-2032 (2015)	2.2
7.	Manpreet Kaur, Aarti Jain, Deepika, Manoj Kumar, Rajni Kant Sharma and Pankaj Sharma*	2015	Biological Activities of three traditional medicinal plants of India.	Journal of Biological and Chemical Sciences, 2(1), 137-142 (2015).	(Referred and Indexed ISSN: 2394 – 9139)
8.	Pankaj Sharma* , G. C. Shah, D. S. Dhami, P. K. Chauhan, V. Singh	2014	Chemical composition, antibacterial and antioxidant activities of <i>Senecio laetus</i> edgew. from cold desert of western Himalaya	International Journal of Pharmaceutical Research and Bio-science, 3(1), 188-199 (2014)	Referred and Indexed ISSN: 2277-8713
9.	Manoj Kumar, Rajshree Khare, Hardeep Singh Tuli, Pankaj Sharma , Rajnikant Sharma	2014	Parameters for variation of nanopores pattern in the synthesis of anodic aluminum oxide (AAO) membranes.	Journal of Biological and Chemical Sciences, 1(1), 57-61 (2014)	Referred and Indexed ISSN: 2394 – 9139
10.	Pardeep Singh, Pankaj Raizada, Deepak Pathania, Gaurav Sharma & Pankaj Sharma	2013	Microwave induced KOH activation of guava peel carbon as an adsorbent for congo dye removal from aqueous phase.	Indian Journal of Chemical Technology, 20, 305-311 (2013)	0.57
11.	Amandeep Kaur Saini, P. K. Chauhan, V. Singh & Pankaj	2013	Phytochemical, Antioxidant & in vitro antibacterial activity of aqueous & ethanolic extracts of	Indian Journal of Pharmaceutical & Biological	Referred and Indexed

	Sharma		Kigelia africana fruit	Research, 1 (1), 46-52 (2013)	ISSN:23 20-9267
12.	Rajni Kant Sharma, Aldus J. Smith, Pankaj Sharma* , Rabia Sharma, Hemang Dhiman, Bhavna Bhatt, Dee M. Blackhurst, Lester M. Davids, Baldev Kumar Dhiman, Lauriston Kellaway, Amod Kulkarni	2021	Secondary metabolites of Himalayan high altitude medicinal plants to control neuro-inflammation induced by HIV proteins gp120-41 and Tat using Sk-N-Sh neuronal cell lines	Chemistry of Natural Compounds (Under Preparation)	0.809

PAPERS PRESENTED/CONFERENCES ATTENDED: 16

Sr. No	Author (s)	Conference Dates	Paper Title	Name and Place of Conferences
1.	Pankaj Sharma and G.C. Shah	September 23-29, 2011	X-ray diffraction and scanning electron microscopy techniques to study the starch-G-poly(MAA) copolymer	National Workshop Cum Seminar on Advances in Electron Microscopy & Allied Fields” at Shoolini University of Biotechnology and Management Sciences, Solan, H.P.
2.	Pankaj Sharma	November 14-15, 2011	Depression and its treatment by medicinal plants: a review	National Seminar on “Importance of Cell Lines Pharmaceutical Research in India” at Shoolini University of Biotechnology and Management Sciences, Solan, H.P.
3.	Pankaj Sharma	Sept. 10-12, 2012	Effect of Temperature on Interactions of Oxalic Acid in Aqueous Tetrahydrofuran (THF)	“Chemical Constellation Cheminar – 2012 (CCC-2012)” (An International Conference) at NIT Jalandhar, Punjab,
4.	Pankaj Sharma	March 8-10, 2013	Effect of Temperature on Interactions of ammonium oxalate in Aqueous Tetrahydrofuran (THF)	1st annual conference of HSCA entitled “Science: Emerging Scenario and Future Challenges” at Shoolini University, Solan,
5.	Pankaj Sharma , G. C. Shah, Manoj Kumar & Rajshree Khare	Feb.27-28, 2014	Bioactive volatile constituents of cyperus brevifolius (rothb.) H.	National Conference on “Recent Trends in Chemical & Environmental Sciences” Arni University, Indora, H.P.
6.	Pankaj Sharma , G. C. Shah, P. K. Chauhan,	Feb.27-28, 2014	Phytochemical Study and Antibacterial Activities of Bark Extract of <i>Bauhinia Variegata</i>	National Conference on “Recent Trends in Chemical & Environmental Sciences” Arni University, Indora, H.P.

	Vivek Sheel			
7.	Pankaj Sharma and G.C. Shah	June 19, 2015	Isolation of Bioactive compounds from <i>Senecio nudicaulis</i> Wall. ex DC. (Asteraceae): A Medicinal Plant Growing Wild in Himachal Pradesh, India	National Conference on “Innovative Trends in Science , Technology and Management-II” Sri Sai University Palampur, H.P.
8.	Pankaj Sharma, Rabia Sharma and Manoj Kumar	March 11, 2016	Antibacterial and antioxidant activity of <i>Senecio laetus</i> Edgew. (Asteraceae): A endemic medicinal herb of regional Himalaya	National Conference on “Recent Trends in Environment, Science and Technology” Rayat Bahra University, Mohali
9.	Pankaj Sharma	March 26, 2016	Bioactive Constituents from <i>Senecio laetus</i> Edgew. – An Endemic Medicinal Herb	National Conference on “Chemical Sciences: Emerging Scenario & Global Challenges” Arya P. G. College, Panipat
10.	Pankaj Sharma, Rabia Sharma and Manoj Kumar	June 24, 2016	Isolation and Characterization of Quercetin from <i>Senecio laetus</i> Edgew. – An Endemic Medicinal Herb	Multidisciplinary National Conference on “Innovative Trends in Science, Technology and Management-III” Sri Sai University Palampur, H.P.
11.	Pankaj Sharma & Rabia Sharma	Feb. 17, 2017	Qualitative Analysis of Phytochemicals from leaf and stem extract of <i>Berberis Lycium</i>	National Seminar on “Role of an Individual and Scientists Towards Conservation of Biodiversity” B.A.M. Khalsa College, Garhshankar.
12.	Pankaj Sharma	March, 23-24, 2022	Binary Liquid Mixtures Nonanol and Decanol with their Thermodynamic and Transport behavior: A Review	International Conference on “Recent Advances in Applied Sciences (ICRAAS-2022)” Maharishi Markandehwar (Deemed to be University), Mullana-Ambala.
13.	Pankaj Sharma & Rabia Sharma	Feb. 15 th 2023	Use of Green Nanomaterials for the Treatment of Wastewater	National Conference on “Methods and Challenges to Harvest water for sustainable development” B.A.M Khalsa College, Garhshankar.
14.	Pankaj Sharma & Rabia Sharma	Feb. 17 th 2023	Role of Traditional Medicine System in Phytochemical Analysis	National Conference on “Methods and Challenges to Harvest water for sustainable development” B.A.M Khalsa College, Garhshankar.
15.	Pankaj Sharma & Rabia Sharma	May. 8 th 2023	Effects of Water Contaminants on health of Pregnant Women and Infants	One Day National Seminar “India @ 75: Status of Women in Independent India with special reference to North Western States Khalsa College, Garhdiwala (Hoshiarpur)
16.	Pankaj Sharma	Feb. 5 th 2024	Academic Research and Writing Skills	One Day seminar on “How to write a research paper” Khalsa College, Garhdiwala (Hoshiarpur)

Chapters in Edited Books: 4

Sr. No	Author (s)	Name of Book	Title of Chapter	Publisher/Edition
1	Pankaj Sharma & Rabia Sharma	Methods and Challenges to harvest Water for Sustainable Development	Use of Green Nanomaterials for the Treatment of Wastewater	Saptrishi Publication, Chandigarh/2023 (ISBN: 978-81-19011-69-8)
2	Rabia Sharma & Pankaj Sharma	Methods and Challenges to harvest Water for Sustainable Development	Waste Water Treatment by Employing Membrane Microfiltration & UV Spectroscopic Techniques	Saptrishi Publication, Chandigarh/2023 (ISBN: 978-81-19011-69-8)
3	Pankaj Sharma & Rabia Sharma	Environmental Degradation: Challenges and Concerns For Sustainable Development	Advanced Control Technologies for Air Pollution Mitigation: Innovations, Challenges, and Future Perspectives	SLM Publishers, Patiala/2024 (ISBN: 978-93-91083-62-5)
4	Rabia Sharma & Pankaj Sharma	Environmental Degradation: Challenges and Concerns For Sustainable Development	Mitigating the Risks of Toxic Elements: Sources, Health Impacts, and Prevention Strategies	SLM Publishers, Patiala/2024 (ISBN: 978-93-91083-62-5)

EDITED BOOK: 01

Environmental Degradation: Challenges and Concerns for Sustainable Development, SLM Publishers, Patiala/2024, (ISBN: 978-93-91083-62-5)

MEMBERSHIP:

- Life membership of Him Science Congress Association (HSCA), H.P. (India).
- Life membership of Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEES), Hong Kong, China.
- Life membership of International Association of Engineers (IAENG), Hong Kong, China.

PERSONAL DETAILS:

- Father's Name : Shri Vidya Sagar
- Mother's Name : Smt. Pawna Sharma
- Date of Birth : 14 June, 1982
- Marital Status : Married
- Nationality : Indian
- Postal Address : Village-Sai, P.O.-Alampur, Tehsil-Jaisinghpur, Distt.- Kangra Himachal Pradesh (176 082), INDIA.

DECLARATION:

I hereby declare/certify that, the information given above is true to the best of my knowledge and if any information given turns out as false, my candidature is liable to be rejected.

Date : 28-03-2025

Place : Garhdiwala

(Pankaj Sharma)
