

**RESEARCH PUBLICATIONS IN COLLABORATION
2017-2018**

S.No.	Title of Paper	Authors from College	Name of Collaborating Authors	Department	Name of Journal	Year of Publication	Link
1.	Phenolic composition and antioxidant potential of grain legume seeds- Paper in collaboration with Department of Food Science and Technology GNDU Amritsar	Balwinder Singh	Amritpal Kaur	Biotechnology	Food Research International	2017	View Document
2.	Phenolic compounds as beneficial phytochemicals in pomegranate (Punica granatum L.) peel - Paper in collaboration with Department of Food Science and Technology GNDU Amritsar	Balwinder Singh	Amritpal Kaur	Biotechnology	Food Chemistry	2018	View Document
3.	Control of insect pests in crop plants and stored food grains using plant saponins - Paper in collaboration with Department of Food Science and Technology GNDU Amritsar	Balwinder Singh	Amritpal Kaur	Biotechnology	LWT-Food Science and Technology	2018	View Document
4.	β -Lactam-Synthon-Interceded Metal/Acid-Free Diastereoselective access to highly functionalized oxazol-5-ones and dihydroimidazoles - Paper in collaboration with Department of Chemistry GNDU Amritsar	Amit Anand	Amandeep Singh, Shalini, HarLeeN kaur, Palak Sharma, Vipin Kumar	Chemistry	Synlett	2017	View Document
5.	Recent advancements in synthetic facets of immensely reactive azetidines- Paper in collaboration with Department of Chemistry, Hindu College Amritsar	Amit Anand	Vishu Mehra, Isha Lumb, Vipin Kumar	Chemistry	RSC Advances	2017	View Document

S.No.	Title of Paper	Authors from College	Name of Collaborating Authors	Department	Name of Journal	Year of Publication	Link
6.	A DFT-assisted mechanism for evolution of the ammoxidation of 2-chlorotoluene (2-CLT) to 2-chlorobenzonitrile (2-CLBN) over alumina-supported V ₂ O ₅ catalyst prepared by a solution combustion method - Paper in collaboration with Department of Chemical Sciences, Devi Ahilya Vishwavidyalaya, Indore	<u>Batra, M.S.,</u>	Dwivedi, R., Sharma, P., Sisodiya, A., Prasad, R.	Chemistry	<u>Journal of Catalysis</u>	2017	View Document
7.	Bioassay Guided Fractionation and In vitro antiplasmodial activity of Ficus deltoidea and Ficus Benzamina, - Paper in collaboration with Department of Pharmacy, SBS College of Pharmacy Patti, Punjab	Hardeep Kaur	Amandeep Singh	Chemistry	Pharmacognosy Journal	2018	View Document
8.	Antiplasmodial Medicinal Plants: A Literature Review on Efficacy, Selectivity and Phytochemistry of Crude Plant Extracts- Paper in collaboration with Department of Pharmacy, SBS College of Pharmacy Patti, Punjab	<u>Hardeep Kaur,</u>	Amandeep Singh	Chemistry	<u>Journal of Biologically Active Products from Nature</u>	2018	View Document
9.	Oxidation of benzyl alcohol in slurry phase over nanoporous ZrV ₂ O ₇ catalyst and determination of reaction mechanism using DFT- Paper in collaboration with Department of Chemical Sciences, Devi Ahilya Vishwavidyalaya, Indore	<u>Batra, M.S.,</u>	Joshi, S.K., Sohani, N., Khare, S., Prasad, R.	Chemistry	<u>Asian Journal of Chemistry</u>	2018	View Document

S.No.	Title of Paper	Authors from College	Name of Collaborating Authors	Department	Name of Journal	Year of Publication	Link
10.	1H-1,2,3-Triazole tethered Nitroimidazole-Isatin conjugates: Synthesis, Docking and Anti-Proliferative Evaluation against Breast Cancer- Paper in collaboration with Department of Chemistry GNDU Amritsar	Amit Anand,	Sumit Kumar, Sourav Taru Saha, Liang Gu, Gabriella Palma, Shanen Perumal, Ashona Singh Pillay, Parvesh Singh, Mandeep Kaur, Vipin Kumar	Chemistry	ASC Omega	2018	View Document
11.	Parametric comparison of EMDS algorithm with some symmetric cryptosystems- Paper in collaboration with Department of Chemistry GNDU Amritsar	Mani Arora,	Sandeep Sharma, Derick Engles	Computer Science and Applications	Egyptian Informatics Journal	2017	View Document
12.	Synthesis of cryptography and security attacks- Paper in collaboration with Department of Chemistry GNDU Amritsar	Mani Arora,	Sandeep Sharma	Computer Science and Applications	International journal of scientific research in network security and communication	2017	View Document
13.	Teaching graphical simulation of fourier series expansion of some periodic waves using spreadsheets- Paper in collaboration with School of Mathematics, Thapar University, Patiala	Iqbal Singh,	Bikramjeet kaur	Physics	Physics Education	2017	View Document
14.	Propagation characteristics of ion-acoustic double layer in multicomponent inhomogeneous auroral zone plasma Paper in collaboration with Department of Physics GNDU Amritsar	H Kaur,	TS Gill, P Bala	Physics	Pramana – Journal of Physics	2017	View Document
15.	Ion-acoustic dressed solitary structures in two component plasma with Tsallis-nonthermal velocity distribution of electrons Paper in collaboration with Department of Chemistry GNDU Amritsar	H Kaur	P Bala, TS Gill, AS Bains,	Physics	Indian Journal of Physics	2017	View Document

S.No.	Title of Paper	Authors from College	Name of Collaborating Authors	Department	Name of Journal	Year of Publication	Link
16.	Effect of dilute concentrations of Sm on the temperature dependent electrical and dielectric properties of ZnO Paper in collaboration with Department of Chemistry GNDU Amritsar	Gurinder Pal Singh	Deepawali Arora Kandasami Asokan Sunil Kumar Simranpreet Kaur Parvinder Kaur Aman Mahajan Sameer Kalia Neerja Kalia Kriti Seth Puneet Kaur Davinder P. Singh	Physics	Journal of the American Ceramic Society	2018	View Document
17.	Radiation dose-dependent risk on individuals due to ingestion of uranium and radon concentration in drinking water samples of four districts of Haryana, India -Paper in collaboration with Department of Chemistry Chandigarh University, Mohali and DAV College Amritsar	Joga Singh	Amanjeet Panghal , Ajay Kumar , Suneel Kumar , , Sumit Sharma, Parminder Singh, Rohit Mehra & B. S. Bajwa	Physics	Radiation Effects and Defects in Solids	2017	View Document
18.	Assessment of natural radioactivity levels and associated dose rates in soil samples from historical city Panipat, India-Paper in collaboration with Department of Chemistry DAV College Amritsar	J Singh	Amanjeet, A. Kumar, S. Kumar, Parminder Singh and B.S. Bajwa	Physics	Journal of Radiation Research and Applied Sciences	2017	View Document
19.	Instrumental characterization of organic wastes for evaluation of vermicompost maturity- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	,Jaswinder Singh	Adarsh Pal Vig Sartaj Ahmad Bhat	Zoology	Journal of Analytical Science & Technology	2017	View Document
20.	Analysis of soil characteristics of different land uses and metal bioaccumulation in wheat grown around rivers: possible human health risk assessment- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh	Sandip Singh Bhatti, Vasudha Sambyal ,Avinash Kaur Nagpal	Zoology	Environment Development & Sustainability	2017	View Document

S.No.	Title of Paper	Authors from College	Name of Collaborating Authors	Department	Name of Journal	Year of Publication	Link
21.	Genotoxicity monitoring of industrial wastes using plant bioassays and management through vermitechnology: A review- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh	Sartaj Ahmad Bhat, Keshav Singh, Adarsh Pal Vig	Zoology	Agriculture and Natural Resources	2017	View Document
22.	Vermicompost and vermiwash as supplement to improve seedling, plant growth and yield in Linum usitassimum L. for organic agriculture -Paper in collaboration with Department of Applied Sciences I K Gujral Technical University, Jalandhar	Jaswinder Singh,	Cinny Makkar, Chander Parkash	Zoology	International Journal Of Recycling of Organic Waste in Agriculture	2017	View Document
23.	Amelioration and degradation of pressmud and bagasse wastes using vermitechnology- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh,	Sartaj Ahmad Bhat, Adarsh Pal Vig	Zoology	Bioresource Technology	2017	View Document
24.	Earthworms as Organic Waste Managers and Biofertilizer Producers- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	,Jaswinder Singh,	Sartaj Ahmad Bhat, Adarsh Pal Vig	Zoology	WASTE AND BIOMASS VALORIZATION	2018	View Document
25.	Ecological risk assessment of metals in roadside agricultural soils: A modified approach- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh	S.S Bhatti, S.A Bhat, V Kumar, M Kaur, Minakshi, V Sambyal, , A.P Vig, A.K Nagpal	Zoology	Human and Ecological Risk Assessment: An International Journal	2018	View Document

S.No.	Title of Paper	Authors from College	Name of Collaborating Authors	Department	Name of Journal	Year of Publication	Link
26.	Eco-friendly method for the extraction of earthworms: Comparative account of formalin, AITC and Allium cepa as extractant- Paper in collaboration with Department of Community Ecology Helmholtz Centre for Environment Research UFZ, Germany	Jaswinder Singh,	Sharanpreet Singh, Sartaj Ahmad Bhat, Adarsh Pal Vig, Martin Schädler	Zoology	Applied Soil Ecology	2018	View Document
27.	Comparative analysis of tissue compartmentalized heavy metal uptake by common forage crop: A field experiment- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh, Avinash Kaur Nagpal	Sandip Singh Bhatti, Vaneet Kumar, Vasudha Sambyal,	Zoology	Catena	2018	View Document
28.	Conventional farming reduces the activity of earthworms: Assessment of genotoxicity test of soil and vermicast- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh,	S.Singh, A.P Vig, S. A.Bhat, S.S Hundal, Rui Yin, Martin Schädler	Zoology	Agriculture and Natural Resources	2018	View Document
29.	Assessment of genotoxic effects of pesticide and vermicompost treated soil with Allium cepa test- Paper in collaboration with School of Biotech and Bioscience LPU Phagwara	Jaswinder Singh,	Joginder Singh, Sharanpreet Singh, Simranjeet Singh, Shivika Datta,	Zoology	Sustainable Environment research	2018	View Document
30.	Potential ecological risks of metal(loid)s in riverine floodplain soils- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh	S.S Bhatti, V Kumar, A Kumar, J Gouzos, J Kirby, V Sambyal, A K Nagpal	Zoology	Ecotoxicology and Environmental Safety	2018	View Document

S.No.	Title of Paper	Authors from College	Name of Collaborating Authors	Department	Name of Journal	Year of Publication	Link
31.	Comparative response of two varieties of <i>Linum usitatissimum</i> L. to Vermicompost, Vermiwash and INM-Paper in collaboration with Department of Applied Sciences I K Gujral Technical University, Jalandhar	Jaswinder Singh	Cinny Makkar, Chander Parkash	Zoology	International Journal of Research in Advent Technology	2018	View Document
32.	First Report of the Earthworm <i>Pontoscolex corethrurus</i> (Müller, 1857) from Punjab, India- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh	Sharanpreet Singh, Ayushi Sharma, Adarsh Pal Vig, Shakoor Ahmed	Zoology	International Letters of Natural Sciences	2018	View Document
33.	Phytoremediation of Heavy Metals Using Cotton Plant: A Field Analysis- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh	Ramandeep Kaur, Sandip Singh Bhatti, Sharanpreet Singh, Satnam Singh	Zoology	Bulletin of Environmental Contamination and Toxicology	2018	View Document
34.	Bioremediation and detoxification of industrial waste by earthworms: vermicompost as powerful crop nutrient in sustainable agriculture- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh	Sartaj Ahmad Bhat, Sharanpreet Singh, Sunil Kumar, Bhawana, Adarsh Pal Vig	Zoology	Bioresource Technology	2018	View Document
35.	Vermiremediation and detoxification of sugar beet pulp waste using <i>Allium cepa</i> bioassay- Paper in collaboration with Department of Botanical and Environment Sciences, GNDU Amritsar	Jaswinder Singh	Sartaj Ahmad Bhat, • Adarsh Pal Vig	Zoology	Energy Ecology Environment	2018	View Document
36.	Toxicity of Synthetic Fibres and Human Health. - Paper in collaboration with Department of Fashion Designing PCM SD College	Zorawar Singh	Sunita Bhalla	Zoology	Advance Research in Textile Engineering 2(1): 1012-1015.	2017	View Document

**RESEARCH PUBLICATIONS IN COLLABORATION
2018-2019**

S.No.	Title of Paper	Authors from College	Name of Collaborating Authors	Department	Name of Journal	Year of Publication	Link
1.	Insights into the phenolic compounds present in jambolan (Syzygium cumini) along with their health-promoting effects- Paper in collaboration with Department of Food Science and Technology GNDU Amritsar	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	International Journal of Food Science and Technology	2018	View Document
2.	Bioactivities of phytochemicals present in tomato. - Paper in collaboration with Department of Botanical and Environmental Sciences GNDU Amritsar	Balwinder Singh and Co-authors	Avinash Kaur Nagpal	Biotechnology	Journal of Food Science and Technology	2018	View Document
3.	Infection of potato virus S and M in tomato in North-western India. - Paper in collaboration with Department of Botanical and Environmental Sciences GNDU Amritsar	Balwinder Singh and Co-authors	Avinash Kaur Nagpal	Biotechnology	Journal of Plant Pathology	2018	View Document
4.	Antimicrobial potential of pomegranate peel: A review- Paper in collaboration with Department of Food Science and Technology GNDU Amritsar	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	International Journal of Food Science and Technology	2019	View Document

S.No.	Title of Paper	Authors from College	Name of Collaborating Authors	Department	Name of Journal	Year of Publication	Link
5.	First report of potato virus M, potato virus Y and cucumber mosaic virus infection in <i>Solanum nigrum</i> in India. - Paper in collaboration with Department of Botanical and Environmental Sciences GNDU Amritsar	Balwinder Singh and Co-authors	Avinash Kaur Nagpal	Biotechnology	Journal of Plant Pathology	2019	View Document
6.	Effect of Fermentation on Chemical changes in Vitis Vinifera Fruits used in alcoholic ayurveda formulation.	Hardeep Kaur	Gurpreet Kaur Gill, Amandeep Singh	Chemistry	International Journal of Green Pharmacy.	2018	View Document
7.	Simulating Fraunhofer diffraction of waves using microsoft excel spreadsheet-- Paper in collaboration with School of Mathematics, TIET, Patiala	Kamalpreet khun khun, Iqbal Singh	Bikramjit Kaur	Physics	Physics Education	2018	View Document
8.	Blue –yellow emission adjustability with aluminium incorporation for cool to warm white light generation in dysprosium doped borate glasses- Paper in collaboration with Department of Chemistry GNDU Amritsar	Gurinder Pal Singh	Simranpreet Kaur, Deepawali Arora, Sunil Kumar, Shaweta Mohan, Puneet Kaur, Kritia, Puneet Kaur,D.P.Singh	Physics	Journal of Luminescence	2018	View Document
9.	Climate change effects on earthworms - a review Paper in collaboration with Department of Community Ecology , HelmholtzCentre for Environment Research UFZ Theodor Lieser, Halle Germany	Jaswinder Singh	Martin Schädler, Wilian Demetrio, George G. Brown, Nico Eisenhauer	Zoology	Soil organism	2019	View Document

S.No.	Title of Paper	Authors from College	Name of Collaborating Authors	Department	Name of Journal	Year of Publication	Link
10.	Remediation techniques for removal of heavy metals from the soil contaminated through different sources: a review- Paper in collaboration with Department of Soil Science, Punjab Agricultural University, Ludhiana	Jaswinder Singh	P.K Taneja, Agniva Mandal	Zoology	Environment Science & Pollution Research	2019	View Document
11.	Global distribution of earthworm diversity-- Paper in collaboration with German Centre for Integrative Biodiversity Research, Leipzig, Germany	Jaswinder Singh	Helen R. P. Phillips et al.,	Zoology	Science	2019	View Document
12.	Nutrient recovery from pigeon dropping by using exotic earthworm Eisenia fetida- Paper in collaboration with Department of Botanical and Environmental Sciences GNDU Amritsar	Jaswinder Singh	Amandeep Kaur, Jagroop Kaur, Adarsh Pal Vig, Sartaj Ahmad Bhat, Sharanpreet Singh,	Zoology	Sustainable Chemistry and Pharmacy	2019	View Document
13.	Modulatory role of vermicompost and vermishash on growth, yeild and nutritional profiling of Linum usitatissimum (Linseed): a field study- Paper in collaboration with Department of Applied Sciences, IKGPTU, Jalandhar	Jaswinder Singh	Chander Parkash	Zoology	Environmental Science and Pollution Research.	2019	View Document

**RESEARCH PUBLICATIONS IN COLLABORATION
2019-2020**

S.No.	Title of Paper	Authors from College	Collaborating Authors	Department	Name of Journal	Year of Publication	Link
1.	Physicochemical evaluation of corn extrudates containing varying buckwheat flour levels prepared at various extrusion temperatures- Paper in collaboration with Department of Food Science and Technology GNDU Amritsar	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Journal of Food Science and Technology	2019	View Document
2.	Chemical, thermal, rheological and FTIR studies of vegetable oils and their effect on eggless muffin characteristics- Paper in collaboration with Department of Food Science and Technology GNDU Amritsar	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Journal of Food Processing and Preservation	2019	View Document
3.	Impact of roasting and extraction methods on chemical properties, oxidative stability and Maillard reaction products of peanut oils- Paper in collaboration with Department of Food Science and Technology GNDU Amritsar	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Journal of Food Science and Technology	2019	View Document

S.No.	Title of Paper	Authors from College	Collaborating Authors	Department	Name of Journal	Year of Publication	Link
4.	Effect of buckwheat incorporation on batter fermentation, rheology, phenolic, amino acid composition and textural properties of <i>idli</i> . - Paper in collaboration with Department of Food Science and Technology GNDU Amritsar	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	LWT-Food Science and Technology	2020	View Document
5.	Changes in chemical properties and oxidative stability of refined vegetable oils during short-term deep-frying cycles- Paper in collaboration with Department of Food Science and Technology GNDU Amritsar	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Journal of Food Processing and Preservation	2020	View Document
6.	Antiproliferative and apoptogenic effects of Cassia fistula L. n-hexane fraction against human cervical cancer (HeLa) cells- Paper in collaboration with Department of Botanical and Environment Sciences GNDU Amritsar	Madhu Chandel & Satwinderjeet Kaur	Sandeep Kaur, Kritika Pandit,	P.G. Deptt. of Botany	Environmental Science and Pollution Research	2020	View Document
7.	Development and validation of RP HPLC method for the determination of stigmaterol in the botanical extract of Ficus deltoidea1. Paper in collaboration with Department of Pharmacognosy & Phytochemistry, IKGPTU Jalandhar	Hardeep Kaur	Hayat MM Amandeep Singh Varinder Soni, Atinderpal Singh	Chemistry	Natural Product Research	2019	View Document

S.No.	Title of Paper	Authors from College	Collaborating Authors	Department	Name of Journal	Year of Publication	Link
8.	Applications of Molecular Structural Aspects of Gemini Surfactants in Reducing Nanoparticle–Nanoparticle Interactions- Paper in collaboration with Department of Chemistry, BBK DAV College for Women, Amritsar	Kultar Singh	Rajpreet Kaur, Poonam Khullar, Anita Gupta, Gurinder Kaur Ahluwalia, and Mandeep Singh Bakshi	Chemistry	Langmuir	2019	view Document
9.	Surface active magnetic iron oxide nanoparticles for extracting metal nanoparticles across an aqueous–organic interface- Paper in collaboration with Department of UCRD, Chandigarh University, Gharuan, Mohali	Kultar Singh	<i>Meenakshi Verma, Mandeep Singh Bakshi</i>	Chemistry	<i>Journal of Materials Chemistry C</i>	2019	View Document
10.	Recent developments in biological aspects of chalcones: The odyssey continues-Paper in collaboration with Department of Chemistry , Guru Nanak Dev University , Amritsar ,	Amit Anand	Anu Rani, Kewal Kumar, Vipin Kumar	Chemistry	Expert Opinion on Drug Discovery.	2019	View Document
11.	Transition Metal Catalyzed [6+2] cycloaddition-Paper in collaboration with Department of Chemistry , Guru Nanak Dev University , Amritsar ,	Amit Anand	Prabhpeet Singh, Vipin Kumar and Gaurav Bhargava	Chemistry	RSC Advances	2019	View Document

S.No.	Title of Paper	Authors from College	Collaborating Authors	Department	Name of Journal	Year of Publication	Link
12.	Recent Developments in Heterogeneous Catalyzed Epoxidation of Styrene to Styrene Oxide- Paper in collaboration with School of Chemical Sciences, Devi Ahilya University Takshashila Campus, Khandwa Road, Indore, 452001 India	Batra, M.S.	Dwivedi, R., Prasad, R.	Chemistry	ChemistrySelect	2019	View Document
13.	Simulating longitudinal vibrations of coupled scillator using 4th order Runge–Kutta method by programming spreadsheet-- Paper in collaboration with School of Mathematics, Thapar Institute of Engineering and Technology, Patiala	Kamalpreet khun khun, Iqbal Singh	Bikramjit Kaur	Physics	European Journal of Physics	2019	View Document
14.	Grassland management effects on earthworm communities under ambient and future climatic conditions-Paper in collaboration with German Centre for Integrative Biodiversity Research (iDiv), Leipzig, Germany	Jaswinder Singh	Erin Cameron, Thomas Reitz, Martin Schädler, Nico Eisenhauer	Zoology	European journal of Soil Science	2020	View Document
15.	Potential carcinogenic and non-carcinogenic health hazards of metal(loid)s in food grains-Paper in collaboration with Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	Jaswinder Singh & Vasudha Sambyal	Sandip Singh Bhatti & Vaneet Kumar & Anupama Kumar & Jason K. Kirby & John Gouzos & Ray Correll & Avinash Kaur Nagpal	Zoology	Environment Science & Pollution Research	2020	View Document

S.No.	Title of Paper	Authors from College	Collaborating Authors	Department	Name of Journal	Year of Publication	Link
16.	Cadmium Accumulation Potential of Brassica Species Grown in Metal Spiked Loamy Sand Soil-Paper in collaboration with Department of Soil Science, PAU, Ludhiana	Jaswinder Singh	Salwinder Singh Dhaliwal, P.K. Taneja, Sandip Singh Bhatti & Ravinder Singh	Zoology	Soil and Sediment Contamination: An International Journal	2020	View Document
17.	Soil Properties changes earthworm diversity indices in different Agro-ecosystem- Paper in collaboration with Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	Jaswinder Singh	Sharanpreet Singh, Ayushi Sharma, Kiran Khajuria, Adarsh Pal Vig	Zoology	BMC Ecology and Evolution	2020	View Document
18.	Diversity and Abundance of Earthworms in Different Landuse Patterns: Relation with Soil Properties.- Paper in collaboration with Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	Jaswinder Singh*	Sharanpreet Singh, Adarsh Pal Vig	Zoology	Asian Journal of Biological and Life Sciences	2020	View Document

**RESEARCH PUBLICATIONS IN COLLABORATION
2020-2021**

S.No.	Title of Paper	Authors from College	Collaborative Authors from other Organizations	Department	Name of Journal	Year of Publication	Link
1.	Phenolic composition, antioxidant potential and health benefits of citrus peel-Paper in collaboration with Department of Food Science and Technology, Guru Nanak Dev University, Amritsar 143005, Punjab, India	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Food Research International	2020	View Document
2.	Influence of microwave roasting on chemical composition, oxidative stability and fatty acid composition of flaxseed (<i>Linum usitatissimum</i> L.) oil.- Paper in collaboration with Department of Food Science and Technology, Guru Nanak Dev University, Amritsar 143005, Punjab, India	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Food Chemistry	2020	View Document
3.	Effect of growing conditions on proximate, mineral, amino acid, phenolic composition and antioxidant properties of wheatgrass from different wheat (<i>Triticum aestivum</i> L.) varieties- Paper in collaboration with Department of Food Science and Technology, Guru Nanak Dev University, Amritsar 143005, Punjab, India	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Food Chemistry	2021	View Document

S.No.	Title of Paper	Authors from College	Collaborative Authors from other Organizations	Department	Name of Journal	Year of Publication	Link
4.	Impact of germination on phenolic composition, antioxidant properties, antinutritional factors, mineral content and Maillard reaction products of malted quinoa flour- Paper in collaboration with Department of Food Science and Technology, Guru Nanak Dev University, Amritsar 143005, Punjab, India	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Food Chemistry	2021	View Document
5.	Phenolic composition, antioxidant potential and health benefits of citrus peel- Paper in collaboration with Department of Food Science and Technology, Guru Nanak Dev University, Amritsar 143005, Punjab, India	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Food Research International	2020	View Document
6.	Insights into the chemical composition and bioactivities of citrus peel essential oils- Paper in collaboration with Department of Food Science and Technology, Guru Nanak Dev University, Amritsar 143005, Punjab, India	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Food Research International	2021	View Document

S.No.	Title of Paper	Authors from College	Collaborative Authors from other Organizations	Department	Name of Journal	Year of Publication	Link
7.	TGFβ Drives Metabolic Perturbations during Epithelial Mesenchymal Transition in Pancreatic Cancer: TGFβ Induced EMT in PDAC-Paper in collaboration with Department of Pharmaceutical Engineering & Technology, Indian Institute of Technology, Banaras Hindu University, Varanasi	Rajbir Singh, Prabhjit Kaur	Meena U. Rajagopal, Shivani Bansal, Shreyans K. Jain , et al.	P.G. Deptt. of Botany	Cancers	2021	View Document
8.	Effect of heat treatment on thermal and mechanical stability of NaOH-doped xanthan gum-based hydrogels-Paper in collaboration with Department of Physics, D.A.V. College, Amritsar, 143001, India	Amit Anand	Viney Sharma, Rajiv Kumar, Narinder Arora, Simranjit Singh, Navjeet Sharma, Subheet Kumar Jain & Shuchi Sharma	Chemistry Department	Journal of Solid State Electrochemistry	2020	View Document
9.	Functionalized Iron Oxide–Metal Hybrid Nanoparticles for Protein Extraction from Complex Fluids-Paper in collaboration with Department of Chemistry, natural and Applied Sciences, University of Wisconsin, USA	Kultar Singh	Charlie Joe Croxford, Rajpreet Kaur, Mandeep Singh Bakshi	Chemistry Department	Industrial & Engg. Chem. Research	2020	View Document

S.No.	Title of Paper	Authors from College	Collaborative Authors from other Organizations	Department	Name of Journal	Year of Publication	Link
10.	Investigation of antiplasmodial efficacy of lupeol and ursolic acid isolated from Ficus benjamina leaves extract- Department of Pharmacognosy and Phytochemistry, SBS College, Patti	Hardeep Kaur,	Amandeep Singh	Chemistry Department	Natural Product Research	2020	View Document
11.	Recent advances in the catalytic synthesis of 3-aminooxindoles: an update- Paper in collaboration with Department of Chemistry, U.G.C. Centre of Advance Study-II, Guru Nanak Dev University, Amritsar, Punjab, India	Jasneet kaur,	BanniPreet Kaur and Swapandeep Singh Chimni	Chemistry Department	Org. Biomol Chem	2020	View Document
12.	Photophysical behaviour of heme group: Unfolding of Hemoglobin and Myoglobin in the presence of Gemini surfactants of different Architecture- Paper in collaboration with Department of Chemistry, B.B.K. D.A.V. College for Women, Amritsar 143005, Punjab, India;	Kultar Singh,	<i>Lavany Tondon, Pankaj Thakur, Poonam Khullar, /Gurinder kaur Ahluwalia and Mandeep Singh bakshi</i>	Chemistry Department	International Journal of Biological Macromolecules	2020	View Document
13.	Visualising the concept of charging and discharging of capacitors using digital storage oscilloscope- Paper in collaboration with School of Mathematics, Thapar Institute of Engineering and Technology, Patiala-147004, India	Bikramjit Kaur	Kamalpreet khun khun, Iqbal Singh& Gursharan Kaur	Physics	Physics Education	2020	View Document

S.No.	Title of Paper	Authors from College	Collaborative Authors from other Organizations	Department	Name of Journal	Year of Publication	Link
14.	Comparison of structural, physical and optical properties of Na ₂ O-B ₂ O ₃ and Li ₂ O-B ₂ O ₃ glasses to find an advantageous host for CeO ₂ based optical and photonic applications-Paper in collaboration with Department of Physics, Guru Nanak Dev University, Amritsar 143005, India	Gurinder Pal Singh, Joga Singh,	Parvinder Kaur, Simranpreet Kaur, Deepawali Arora, Ravneet Kaur, D.P. Singh	Physics	Journal of Non-Crystalline Solids	2020	View Document
15.	Analysis of enhancement in gamma ray shielding proficiency by adding WO ₃ in Al ₂ O ₃ -PbO-B ₂ O ₃ glasses using Phy-X/PSD-Paper in collaboration with Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	Gurinder Pal Singh, Joga Singh	Parvinder Kaur, Simranpreet Kaur, Deepawali Aror, Ravneet Kaur, Kulwinder Kaur, D.P. Singh	Physics	journal of materials research and technology	2020	view Document
16.	Potential Ecological Impacts of Heavy Metals in Sediments of Industrially Contaminated Perennial Drain of India.- Paper in collaboration with Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	Jaswinder Singh	Salwinder Singh Dhaliwal · Raj K. Setia · Sandip Singh Bhatti	Zoology	Bulletin of Environmental Contamination and Toxicology	2021	View Document

S.No.	Title of Paper	Authors from College	Collaborative Authors from other Organizations	Department	Name of Journal	Year of Publication	Link
17.	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties-Paper in collaboration with German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Puschstrasse 4, 04103, Leipzig, Germany	Jaswinder Singh	Helen R. P. Phillips et al.	Zoology	Scientific data	2021	View Document
18.	Earthworm gut passage reinforces land-use effects on soil microbial communities across climate treatments.- Paper in collaboration with German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Puschstrasse 4, 04103 Leipzig, Germany	Jaswinder Singh	Nico Eisenhauer Martin Sch'adler Simone Cesarz	Zoology	Applied Soil Ecology	2021	View Document
19.	Comparing the nutrient changes, heavy metals, and genotoxicity assessment before and after vermicomposting of thermal fly ash using Eisenia fetida.- -Paper in collaboration with Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	Jaswinder Singh	Bhawana Sohal & Sharanpreet Singh1 & Soubam Indra Kumar Singh1 & Sartaj Ahmad Bhat & Jagdeep Kaur & Adarsh Pal Vig	Zoology	Environmental Science and Pollution Research.	2021	View Document

S.No.	Title of Paper	Authors from College	Collaborative Authors from other Organizations	Department	Name of Journal	Year of Publication	Link
20.	Avoidance behavior of Eisenia fetida and Metaphire posthuma towards two different pesticides, acephate and atrazine.-Paper in collaboration with Department of Zoology, Doaba College, Jalandhar, Punjab, 144001, India	Jaswinder Singh	Shivika Datta, Joginder Singh, Simranjeet Singh,Sharanpreet Singh	Zoology	Chemosphere	2021	View Document
21.	Assessment of heavy metal contamination and its effect on earthworms in different types of soils-Paper in collaboration with Department of Soil Science, Punjab Agricultural University, Ludhiana, Punjab, 141004, India	J. Singh ·	F. Verma· S. Singh· S. Singh Dhaliwal · C. Parkash · V. Kumar · R. Kumar.	Zoology	International Journal of Environmental Science and Technology	2021	View Document
22.	Assessment of Earthworm Community Structure in Industrial and Non-industrial Soils.-Paper in collaboration with Department of Applied Sciences, I.K.G. Punjab Technical University, Kapurthala, Punjab, INDIA.	Jaswinder Singh	Falwinder Verma, Sharanpreet Singh, Salwinder Singh Dhaliwal, Chander Parkash	Zoology	Asian Journal of Biological and Life Sciences	2021	View Document
23.	Appraisal of pollution of potentially toxic elements in different soils collected around the industrial area.-Paper in collaboration with Department of Applied Sciences, I.K.G. Punjab Technical University, Kapurthala, Punjab, 144603, India	Jaswinder Singh,	Falwinder Verma, Sharanpreet Singh, Salwinder Singh Dhaliwal, Chander Parkash	Zoology	Heliyon	2021	View Document

**RESEARCH PUBLICATIONS IN COLLABORATION
2021-2022**

S.No.	Title of Paper	Authors from College	Collaborating Authors from other Organizations	Department	Name of Journal	Year of Publication	Link
1.	Impact of microwave roasting on physicochemical properties, maillard reaction products, antioxidant activity and oxidative stability of nigella seed (<i>Nigella sativa</i> L.) oil. -Paper in collaboration with Department of Food Science and Technology, Guru Nanak Dev University, Amritsar 143005, Punjab, India	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Food Chemistry	2022	View Document
2.	Influence of dry air and infrared pre-treatments on oxidative stability, Maillard reaction products and other chemical properties of linseed (<i>Linum usitatissimum</i> L.) oil. -Paper in collaboration with Department of Food Science and Technology, Guru Nanak Dev University, Amritsar 143005, Punjab, India	Balwinder Singh and Co-authors	Amritpal Kaur	Biotechnology	Journal of Food Science and Technology	2022	View Document
3.	Avoiding Hemolytic Anemia by Understanding the Effect of the Molecular Architecture of Gemini Surfactants on Hemolysis-Paper in collaboration with Department of Chemistry, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India	Kultar Singh	Vandana Agarwal, Vikas Gupta, Vimal Kumar Bhardwaj, Poonam Khullar, and Mandeep Singh Bakshi	Chemistry	Langmuir	2021	View Document

S.No.	Title of Paper	Authors from College	Collaborating Authors from other Organizations	Department	Name of Journal	Year of Publication	Link
4.	Colloidal Stabilization of Sodium Dilauraminocystine for Selective Nanoparticle–Nanoparticle Interactions: Their Screening and Extraction by Iron Oxide Magnetic Nanoparticles-Paper in collaboration with Department of Chemistry, B.B.K. D.A.V. College for Women, Amritsar 143005, Punjab, India	Kultar Singh	Amandeep Kaur, Ravneet Kaur Sandhu, Poonam Khullar, Gurinder Kaur Ahluwalia, and Mandeep Singh Bakshi	Chemistry	Langmuir	2021	View Document
5.	Temperature Induced Phase Transition in Fluorescence Active Zein Nanoparticles-Paper in collaboration with Department of Chemistry, Natural and Applied Sciences, University of Wisconsin–Green Bay, 2420 Nicolet Drive, Green Bay, WI 54311-7001, USA.	Kultar Singh	Charlie Joe Croxford, Rajpreet Kaur, Mandeep Singh Bakshi	Chemistry	Can. J. Chem.	2021	View Document
6.	Arenesulfonyl indole: new precursor for diversification of C-3 functionalized indoles.-Paper in collaboration with Department of Chemistry, U.G.C. Centre of Advance Study-II, Guru Nanak Dev University, Amritsar, Punjab, India	Jasneet Kaur	Banni Preet Kaur and Swapandeep Singh Chimni	Chemistry	RSC Advances	2021	view Document

S.No.	Title of Paper	Authors from College	Collaborating Authors from other Organizations	Department	Name of Journal	Year of Publication	Link
7.	Structural, Optical, Electrical and Magnetic properties of 100MeV Ni irradiated Mn doped ZnO thin films-Paper in collaboration with Department of Physics, S.M.D.R.S.D College, Pathankot 145001, India	Gurinder Pal Singh	Sunil Kumar , Deepawali Arora, Simranpreet Kaur , Parvinder Kaur , , Puneet Kaur , Kriti , Ravi Kumar , D.P. Singh	Physics	Materials Science & Engineering B	2022	View Document
8.	Impact of TiO ₂ on radiation shielding competencies and structural, physical and optical properties of CeO ₂ -PbO-B ₂ O ₃ glasses-Paper in Collaboration with P.G. Department of Physics, Lyallpur Khalsa College, Jalandhar 144001, India	Gurinder Pal Singh, Joga Singh	P Kaur, T. Singh, R. Kaur, Simranpreet Kaur, D.P. Singh	Physics	Journal of Alloys and Compounds	2021	View Document
9.	Vermicompost acts as bio-modulator for plants under stress and non-stress conditions-Paper in collaboration with Department of Applied Sciences, I.K.G. Punjab Technical University, Kapurthala, Punjab, India	Jaswinder Singh	Cinny Makkar, Chander Parkash, Sharanpreet Singh Adarsh Pal Vig · Salwinder Singh Dhaliwal	Zoology	Environment, Development and Sustainability	2022	View Document
10.	Earthworm's show tolerance and avoidance response to pesticide clothianidin: effect on antioxidant enzymes-Paper in collaboration with Department of Botanical and Environmental Sciences, Guru Nanak Dev University Amritsar, Amritsar, Punjab, 143005, India	J. Singh ·	A. B. Chowdhary · J. Quadar · S. Singh · R. Dutta · D. Angmo · A. P. Vig	Zoology	International Journal of Environmental Science and Technology	2022	View Document