

CURRICULUM VITAE

(Dr. Baljit Singh)

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Date of Birth	October 5 th , 1973 (05.10.1973)	
Academic Qualification	M.Sc., Ph.D. Chemistry (Organic Chemistry specialization) B.Sc.Medical (1995) in Ist–Class from HP University Shimla-H.P M.Sc. Chemistry (1997) (Specialization in Organic Chemistry) in Ist–Class from HPU. Ph.D.Chemistry (2002) (specialization in organic/ polymer chemistry) on topic entitled <i>“Preparation and Characterization of Pine Cellulosic Fibre-Adhesives Based Polymer Composites”</i> from HP University Shimla-H.P	
Research Area	Organic/Pharmaceutical/polymer Chemistry	
Teaching Experience	>25 year Post graduation Assistant professor: from May 2002 to May 2014 Associate professor : from May 2014 to May 2017 Professor : from 2017 to till date	
Research Experience	>28 Years	
No. of Publications	192(All in international Journals) Research Papers = 184 Review articles = 3 Book Published = 2 Chapters in Books =3 (all International Publishers)	
Research work citations	Google citations about = 8200 (upto May, 2025) h-index = 44 i10-index= 106, https://scholar.google.com/citations?user=-8E0_j0AAAAJ&hl=en	
Thesis Supervised	Ph.D. Thesis Supervised = 14 Awarded , In progress = 6 M Phil Thesis Supervised, Awarded =28,	
Research Projects	5 Major research project completed (sponsored by MOEF=2, UGC =1and DAE-BARC=2) 1 Major project submitted to DRDO	
Current research interest	Organic Chemistry, Polymer chemistry, Hydrogels, and Drug delivery systems	

Details of the Research Publications

A	RESEARCH PUBLICATIONS IN REFERRED INTERNATIONAL JOURNALS
192	Nistha Thakur, Baljit Singh, Designing biocompatible functional network pH sensing hydrogels for automated colonic therapeutic delivery, <i>New Journal of Chemistry (RSC)</i> , 2025, in press
191	Vikrant Sharma, Disha Kapil, Baljit Singh, Developing multifunctional zwitterionic-xanthan gum-anchored network copolymers for biomedical applications. <i>Soft Matter(RSC)</i> , 2025, (in press)
190	Diwanshi Sharma, Baljit Singh,, Exploring potential of aloe vera and sterculia gum dietary fibers to develop functional hydrogels for drug delivery applications, <i>Bioactive Carbohydrates and Dietary Fibre</i> , Volume 33, 2025, 100474.
189	Ankita Kumari, Diwanshi Sharma, Baljit Singh, Assessment of physicochemical properties of polysaccharide derived mucoadhesive hydrogels to design tunable drug delivery carriers, <i>Medicine in Novel Technology and Devices</i> , Volume 26, 2025, 100360.
188	Rajesh Kumar, Nistha Thakur, Sushil Kumar, Baljit Singh, Designing of moringa gum-zwitterionic copolymer structure through supra-molecular and covalent interactions for biomedical uses, <i>International Journal of Biological Macromolecules</i> , 2025, 143211.
187	Diwanshi Sharma, Baljit Singh, Designing aloevera-sterculia gum polysaccharides based multifunctional hydrogels for use in drug delivery and wound dressing applications, <i>Results in Surfaces and Interfaces</i> , Volume 18, 2025, 100454.
186	Sushil Kumar, Vikrant Sharma, Nistha Thakur, Baljit Singh, Investigation of physicochemical, morphological and biomedical properties of network hydrogels derived from arabinogalactan of acacia-tragacanth gum, <i>International Journal of Biological Macromolecules</i> , Volume 301, 2025, 140477.
185	Ankita Kumari, Baljit Singh, Emerging trends in designing polysaccharide based mucoadhesive network hydrogels as versatile platforms for innovative delivery of therapeutic agents: A review, <i>International Journal of Biological Macromolecules</i> , Volume 300, 2025, 140229.
184	Ankita Kumari, Diwanshi Sharma, Vikrant Sharma, Baljit Singh, Synthesis and characterization of sterculia gum-zwitterionic sulfobetaine-PVP based network hydrogels for biomedical application, <i>Hybrid Advances</i> , Volume 8, 2025, 100341.
183	Jasvir Singh, Vishavnath, Vikrant Sharma, Baljit Singh, Development of agar-alginate marine polysaccharides-based hydrogels for agricultural applications to reduce environmental hazards, <i>International Journal of Biological Macromolecules</i> , Volume 295, 2025, 139659.
182	Vikrant Sharma, Priyanka Sharma, Baljit Singh, Functionalization of almond gum through covalent and non-covalent interactions for biomedical applications, <i>International Journal of Biological Macromolecules</i> , Volume 292, 2025, 139364.
181	Vikrant Sharma, Disha Kapil, Baljit Singh, Recent advances in biomarkers detection of various diseases by biosensors derived from optical chromogenic polymeric transducers: A review, <i>Process Biochemistry</i> , Volume 148, 2025, 191-221.
180	Nistha Thakur, Baljit Singh, Designing carrageenan-based functional biomaterials by supra-molecular and covalent interactions for biomedical applications, <i>Medicine in Novel Technology and Devices</i> , Volume 24, 2024, 100338.
179	Vikrant Sharma, Disha Kapil, Baljit Singh, Fabrication of bacterial derived natural polysaccharide-based copolymer network hydrogels for use in drug delivery applications, <i>Hybrid Advances</i> , Volume 6, 2024, 100263.
178	Ankita Kumari, Baljit Singh, Synthesis of hydrogels based on sterculia gum-co-poly(vinyl pyrrolidone)-co-poly(vinyl sulphonic acid) for wound dressing and drug delivery application. <i>RSC Sustainability</i> , 2024, 2, 2693–2708- 2693 .
177	Ankita Kumari, Vikrant Sharma, Baljit Singh, Synthesis and bio-medical applications of multifunctional phosphorester cyclic amide anchored sterculia network, <i>International Journal of Biological Macromolecules</i> , Volume 277, Part 3, 2024, 134396.
176	Nistha Thakur, Baljit Singh, Sohini Sharma, Shamsheer Singh Kanwar, Designing carrageenan-based hydrogels for drug delivery applications: Evaluation of physiochemical and biomedical properties, <i>Bioactive Carbohydrates and Dietary Fibre</i> , Volume 32, 2024, 100439.
175	Baljit Singh, Abhishek Dhiman, Sushil Kumar, Designing silver nanoparticles impregnated acacia and tragacanth gum based copolymeric hydrogels for drug delivery applications, <i>Results in Surfaces and Interfaces</i> , Volume 16, 2024, 100256.
174	Nistha Thakur, Baljit Singh, Designing network structure hydrogels derived from carrageenan- phosphated polymers by covalent and supramolecular interactions for potential biomedical applications, <i>International Journal of Biological Macromolecules</i> , Volume 274, Part 2, 2024, 133527.
173	Baljit Singh, Vikrant Sharma. Designing hydrogel based drug delivery devices: Evaluation of network parameters and mechanistic implications, <i>LAP Lambert Academic Publishing (2024-06-26)</i> , ISBN: 978-620-7-45715-1.
172	Rajesh Kumar, Baljit Singh, Functional network copolymeric hydrogels derived from moringa gum: Physiochemical, drug delivery and biomedical properties, <i>International Journal of Biological Macromolecules</i> , 2024, 133352.
171	Perna Sharma, Baljit Singh, Preparation and drug delivery of hydrogels based on grafting of methacrylamide (MAAm) / vinylsulphonic acid (VSA) co monomers onto psyllium, <i>Hybrid Advances</i> , 2024, 100224.
170	Vikrant Sharma, Baljit Singh, Raj Kumar Thakur, Functionalization of psyllium to develop bioactive network hydrogels for sustained drug delivery, <i>Bioactive Carbohydrates and Dietary Fibre</i> , Volume 32, 2024, 100427.
169	Jasvir Singh, Baljit Singh, Vishavnath, Agar-gelatin-derived hydrogel-based controlled delivery devices for linuron herbicide to prevent environmental hazards, <i>Environmental Chemistry and Ecotoxicology</i> , Volume 6, 2024, 153-163.
168	Kavita Devi, Ashima Sharma, Rajesh Kumar, Baljit Singh, Designing of tragacanth gum-poly(2-(methacryloyloxy) ethyl] dimethyl-(3-sulfopropyl) ammonium hydroxide) and poly(acrylamide) based hydrogels for drug delivery and wound dressing applications, <i>Medicine in Novel Technology and Devices</i> , Volume 22, 2024, 100303.
167	Diwanshi Sharma, Ashima Sharma, Ritu Bala, Baljit Singh, Investigations on physiochemical and biomedical properties of Aloe vera - Sterculia gum copolymeric dressings impregnated with antibiotic-anesthetic drugs to enhance wound healing, <i>International Journal of Biological Macromolecules</i> , Volume 267, Part 2, 2024, 131363.
166	Nistha Thakur, Baljit Singh, Evaluating physiochemical characteristics of tragacanth gum-gelatin network hydrogels designed through graft copolymerization technique, <i>International Journal of Biological Macromolecules</i> , 2024, 266(2), 131082.
165	Baljit Singh, Vikrant Sharma, Jasvir Singh, Rohit, Zwitterionic functionalization of polysaccharide gum by graft copolymerization to develop 3-D network materials for anticancer drug delivery applications, <i>Next Materials</i> , 2004, 4, 100115.
164	Ankita Kumari, Baljit Singh, Functionalization of sterculia gum for making platform hydrogels via network formation for use in drug delivery, <i>International Journal of Biological Macromolecules</i> , Volume 264, Part 2, 2024, 130814.
163	Vikrant Sharma, Perna Sharma, Disha Kapil & Baljit Singh. Smart mucoadhesive 3-D network hydrogels for use in localized impregnated anticancer drug delivery, <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2024,73(18), 1605–1618.
162	Perna Sharma, Jasvir Singh, Baljit Singh, Evaluation of physiochemical and biomedical properties of psyllium-poly(vinyl phosphonic acid-co-acrylamide)-cl-N,N-methylene bis acrylamide based hydrogels, <i>International Journal of Biological Macromolecules</i> , Volume 260, Part 2, 2024, 129546.
161	Diwanshi Sharma, Baljit Singh, <i>Designing aloe vera-sterculia gum based copolymeric hydrogel dressings for drug delivery, Hybrid Advances</i> , 2024, 100142.
160	Baljit Singh, Jasvir Singh, Vikrant Sharma, Ankita Kumari, Diwanshi Sharma, Exploring bioactive aloe-vera and sterculia gum to develop hydrogel wound dressings by graft-copolymerization, <i>Food Hydrocolloids for Health</i> , Volume 4, 2023, 100168.
159	Nistha Thakur, Baljit Singh, Designing protein-polysaccharides based bioactive copolymeric network by supra-molecular interactions for sustained drug delivery, <i>Supramolecular Materials</i> , Volume 2, 2023, 100048.
158	Baljit Singh, Kaka Ram, Exploring neem gum in designing hydrogel dressings by covalent and supra-molecular interactions for better wound healing, <i>Results in Surfaces and Interfaces</i> , 2023, 100161.
157	Kavita Devi, Rajesh Kumar, Baljit Singh, Exploring bioactive tragacanth gum for developing nerve regenerating agent imprinted hydrogels for brain drug delivery, <i>Hybrid Advances</i> . 2023, 100103.
156	Baljit Singh, Jasvir Singh, Vikrant Sharma, Ankita Kumari, Diwanshi Sharma, Exploring bioactive aloe-vera and sterculia gum to develop hydrogel wound dressings by graft-copolymerization, <i>Food Hydrocolloids for Health</i> , Volume 4, 2023, 100168.
155	Jasvir Singh, Baljit Singh, Vishavnath, Design of innovative agrochemical delivery system for sustainable agriculture and to alleviate environmental and health hazards, <i>Sustainable Chemistry for the Environment</i> , Volume 4, 2023,100046.

154	Baljit Singh, Jasvir Singh, Vikrant Sharma, Priyanka Sharma, Rajesh Kumar, Functionalization of bioactive moringa gum for designing hydrogel wound dressings, Hybrid Advances, 2023, 100096.
153	Baljit Singh, Rajender Kumar, Sushil Kumar, Nistha Thakur, Kaka Ram, Design of polysaccharide gum based network copolymeric hydrogels for drug delivery and wound dressing applications, Medicine in Novel Technology and Devices, Volume 20, 2023, 100262.
152	Baljit Singh, Abhishek Dhiman, Kavita Devi, Sushil Kumar, Developing 3D-network gels from polysaccharide gums for biomedical applications, Hybrid Advances, Volume 3, 2023, 100060.
151	Baljit Singh, Ankita Kumari, Evaluation of covalent and supra-molecular interactions in phosphated galacturonic-glucuronic acid for network structure for use in wound dressings, Materials Today Communications, Volume 36, 2023, 106534.
150	Baljit Singh, Abhishek Dhiman, Sushil Kumar, Polysaccharide gum based network hydrogels for controlled drug delivery of ceftriaxone: Synthesis, characterization and biomedical evaluations, Results in Chemistry, Volume 5, 2023, 100695.
149	Baljit Singh, Vikrant Sharma, R. Kumar, Diwanshi Sharma, Designing biphasic gels from dietary fiber sterculia gum by green approach using high energy radiation for biomedical applications, Food Hydrocolloids for Health, Volume 3, 2023, 100137.
148	Baljit Singh, Vikrant Sharma, Rohit, H. Sen, Fabrication of acacia gum grafted copolymeric network hydrogel for biomedical applications, Bioactive Carbohydrates and Dietary Fibre, Volume 29, 2023, 100353.
147	Vikrant Sharma, Baljit Singh, Priyanka Sharma, Development of almond gum based copolymeric hydrogels for use in effectual colon-drug delivery, Journal of Drug Delivery Science and Technology, Volume 84, 2023, 104470.
146	Baljit Singh, Ashima Sharma, Nistha Thakur, Rajesh Kumar, Developing dietary fiber moringa gum based ciprofloxacin encapsulated hydrogel wound dressings for better wound care, Food Hydrocolloids for Health 3 (2023) 100128.
145	Baljit Singh, Vikrant Sharma, Rohit, K. Ram, A. Kumari, K. Devi, P. Sharma, D. Sharma, P. Sharma, S.I Kumar and Anita Kumari, Design of dietary fiber psyllium-sterculia gum based hydrogels for use in controlled drug delivery applications. Prayogik Rasayan, 2022, 6, 1 – 6.
144	Baljit Singh, Ankita Kumari, Diwanshi Sharma, Abhishek Dhiman, Sushil Kumar, Fabricating gum polysaccharides based nano-composites for drug delivery uses via sustainable green approach, International Journal of Biological Macromolecules, Volume 235, 2023, 123856.
143	Baljit Singh, Ankita Kumari, Prema Sharma, Man Mohan. Fabrication of arabinoxylan psyllium-phosphated polymers for biomedical applications. Bioactive Carbohydrates and Dietary Fibre 29 (2023) 100351.
142	Baljit Singh, Vikrant Sharma, Man Mohan, Rohit, Prema Sharma, Kaka Ram. Design of ciprofloxacin impregnated dietary fiber psyllium-moringa gum-alginate network hydrogels via green approach for use in gastro-retentive drug delivery system. Bioactive Carbohydrates and Dietary Fibre 29 (2023) 100345.
141	Baljit Singh, Abhishek Dhiman and Sushil Kumar. Polysaccharide gum based network hydrogels for controlled drug delivery of ceftriaxone: Synthesis, Characterization and biomedical evaluations. Results in Chemistry Results in Chemistry 5 (2023) 100695.
140	Jasvir Singh, Baljit Singh, and Vishav Nath. Designing Starch–Alginate Hydrogels for Controlled Delivery of Fungicide for the Alleviation of Environmental Pollution, ACS Agricultural Science & Technology, 2022, 2, 1239–1250.
139	Baljit Singh and Man Mohan. Exploration of the high energy radiation for the designing of psyllium-poly(MEDSAH) zwitterionic superabsorbent hydrogels for biomedical uses. Materialia, MTLA 26 (2022) 101641.
138	Baljit Singh, Vikrant Sharma, Ankita Kumari, Synthesis and characterization of sterculia gum polysaccharide-poly(bis[2-methacryloyloxy] ethyl phosphate copolymeric network hydrogels for use in drug delivery. Polymer Science, Series B :Polymer Chemistry, 2022,64(6), 874-887.
137	Baljit Singh, Vikrant Sharma, Kaka Ram. Design of moxifloxacin encapsulated network hydrogel wound dressings: Evaluation of polymer-drug, polymer-blood and polymer-bio membrane interactions. Polymer Engineering & Science, 2022;Oct 2022, 1–13.
136	Baljit Singh, Vikrant Sharma, Rajneesh, Ajay Kumar, Rohit, Man Mohan, Rajender Kumar, Ankita Kumari, Prema Sharma, Kaka Ram, Development of dietary fibers moringa-sterculia gum hydrogel for drug delivery applications, Food Hydrocolloids for Health, Volume 2, 2022, 100095.
135	Baljit Singh, Kavita Devi, Diwanshi Sharma, Prema Sharma, Synthesis and characterization of modified bioactive arabinoxylan-psyllium: Evaluation of molecular interactions, physiochemical and biomedical properties, International Journal of Biological Macromolecules, Volume 221, 2022,1053-1064
134	Baljit Singh, Vikrant Sharma, Kaka Ram, Sushil Kumar, Priyanka Sharma, Rohit, Impregnating graphene oxide into polyvinylsulphonic acid-sterculia gum hydrogels to modulate antibiotic drug vancomycin interactions for controlled drug delivery applications, Diamond and Related Materials, Volume 130, 2022, 109483.
133	Baljit Singh, Rohit, Tailoring and evaluating poly(vinyl sulfonic acid)-sterculia gum network hydrogel for biomedical applications, Materialia, Volume 25, 2022, 101524.
132	Baljit Singh, Vikrant Sharma, Rajender Kumar, Man Mohan, Development of dietary fiber psyllium based hydrogel for use in drug delivery applications, Food Hydrocolloids for Health, Volume 2, 2022, 100059.
131	Baljit Singh, Man Mohan, Rajender Kumar, Synthesis of hydrocortisone containing dietary fiber almond gum-based hydrogels as sustained drug delivery carriers for use in colon inflammation, Food Hydrocolloids for Health, Volume 2, 2022, 100057.
130	Baljit Singh, Jasvir Singh, A Dhiman, Man Mohan, Synthesis and characterization of arabinoxylan-bis[2-(methacryloyloxy)ethyl] phosphate crosslinked copolymer network by high energy gamma radiation for use in controlled drug delivery applications, International Journal of Biological Macromolecules, Volume 200, 2022, 206-217.
129	Baljit Singh and Man Mohan. Synthesis and Characterization of Arabinoxylan Psyllium Mucilage-2-methacryloyloxyethyl Trimethylammonium Chloride Copolymeric Hydrogel by Gamma Radiation for Use in Drug Delivery Applications . Polymer Science, Series B, 2022. 64,55-67.
128	Baljit Singh, Kaka Ram, Baldev Singh, Development and characterization of azadirachta indica gum-poly(2-hydroxyethyl methacrylate) crosslinked co-polymeric hydrogels for drug delivery applications, Chemical Physics Letters, Volume 792, 2022, 139401.
127	Baljit Singh, Baldev Singh, Design of dietary fiber azadirachta indica gum based hydrogels for use in drug delivery, Food Hydrocolloids for Health, Volume 1, 2021, 100011.
126	Baljit Singh *, Ajay Kumar, Rohit. Gamma radiation formation of sterculia gum-alginate-carbopol hydrogel dressing by grafting method for use in brain drug delivery. Chemical Physics Letters, 2021, 779, 138875.
124	Baljit Singh *, Vikrant Sharma, Rohit and Ajay Kumar, Designing moringa gum-sterculia gum-polyacrylamide hydrogel wound dressings for drug delivery applications. Carbohydrate Polymer Technologies and Applications 2 (2021) 100062.
123	Baljit Singh, and Rajneesh, Application of tragacanth gum and alginate in hydrogel wound dressing's formation using gamma radiation. Carbohydrate Polymer Technologies and Applications, 2021, 2, 100058.
122	Baljit Singh and Ajay Kumar, Development of dietary fibre moringa gum and polyvinylpyrrolidone based hydrogels for drug delivery application. Food Hydrocolloids for Health 1 (2021) 100008.
121	Baljit Singh, Man Mohan, Sustained Delivery of Pentazocine from Mucoadhesive Buccal Patches to Improve Anti- Addiction Therapy During COVID-19 Pandemic. Focus on Medical Sciences Journal, 2021,6,(1),2020.
120	Baljit Singh, Man Mohan and Baldev Singh, Synthesis and characterization of the azadirachta indica gum - polyacrylamide interpenetrating network for biomedical applications. Carbohydrate Polymer Technologies and Applications,2020,1, 100017.
119	Baljit Singh, Suresh Kumar, Rajneesh, Man Mohan, Divya, Synthesis and characterization of psyllium polysaccharide - poly(2-hydroxypropyl methacrylate) - poly(acrylamide) hydrogels for use in sustained drug delivery applications. Polymer Science, Series B, 2020, 62(6),685–696.
118	Baljit Singh, Baldev Singh, Graft copolymerization of polyvinylpyrrolidone onto Azadirachta indicagum polysaccharide in the presence of crosslinker to develop hydrogelsfor drug delivery applications. International Journal of Biological Macromolecules 159 (2020) 264–275.
117	Baljit Singh, Ajay Kumar, Graft and crosslinked polymerization of polysaccharide gum to formhydrogel wound dressings for drug delivery applications. Carbohydrate Research 489 (2020) 107949.
116	Baljit Singh, Ajay Kumar and Rohit. Synthesis and characterization of alginate and sterculia gum based hydrogel for brain drug delivery applications. International Journal of Biological Macromolecules 148 (2020) 248 –257.
115	Baljit Singh, Baldev Singh. Radiation induced graft copolymerization of graphene oxide and carbopol onto sterculia gum polysaccharide to develop hydrogels for biomedical applications. FlatChem 19 (2020) 100151.

114	Baljit Singh, Ajay Kumar. Exploration of arabinogalactan of gum polysaccharide potential in hydrogel formation and controlled drug delivery applications. International Journal of Biological Macromolecules , 147 (2020) 482–492.
113	Baljit Singh, K. Sharma, Rajneesh, S. Dutt. Dietary fiber tragacanth gum based hydrogels for use in drug delivery applications. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2019, 21, 100208.
112	Baljit Singh, Rajneesh, Baldev Singh, Ajay Kumar and Shikha Aery, Polysaccharides sterculia gum / psyllium- based hydrogel dressings for drug delivery applications. <i>Polymer Science, Series A</i> , 2019, 61(6)865–874.
111	Baljit Singh, Rajender Kumar, Designing biocompatible sterile organogel–bigel formulations for drug delivery applications using green protocol. <i>RSC New Journal of Chemistry</i> , 2019, 43, 3059-3070.
110	Baljit Singh, Baldev Singh, Developing a drug delivery carrier from natural polysaccharide exudates gum by graft-copolymerization reaction using high energy radiations. <i>International Journal of Biological Macromolecules</i> 127 (2019) 450–459.
109	Baljit Singh, Abhishek Dhiman, Functionalization of carbopol with NVP for designing antibiotic drugloaded hydrogel dressings for better wound management. Journal of Pharmaceutical and Biopharmaceutical Research , 2019,1(1),1-14.
108	Baljit Singh, Ajay Kumar, Radiation-induced graft copolymerization of N vinyl imidazole ontomoringa gum polysaccharide for making hydrogels forbiomedical applications. <i>International Journal of Biological Macromolecules</i> 120 (2018) 1369–1378.
107	Baljit Singh, Ajay Kumar, Hydrogel formation by radiation induced crosslinked copolymerization of acrylamide onto moringa gum for use in drug delivery applications. <i>Carbohydrate Polymers</i> 200 (2018) 262–270.
106	Baljit Singh , Rajneesh. Gamma radiation synthesis and characterization of gentamicin loaded polysaccharide gum based hydrogel wound dressings. <i>Journal of Drug Delivery Science and Technology</i> , 2018,47,200-208.
105	Baljit Singh, Baldev Singh, Ajay Kumar and Rajneesh, Development of silver particle impregnated hydrogel by radiation induced crosslinking for wound dressing applications. <i>American Journal of Drug delivery and Therapeutics</i> ,2018,5(1), 1-8.
104	Baljit Singh , Baldev Singh, Modification of sterculia gum polysaccharide via network formation by radiation induced crosslinking polymerization for biomedical applications. <i>International Journal of Biological Macromolecules</i> ,2018,116,91-99.
103	Baljit Singh, Ajay Kumar, Network formation of Moringa oleifera gum by radiation induced crosslinking: Evaluation of drug delivery, network parameters and biomedical properties. International Journal of Biological Macromolecules , 2018,108, 477-488.
102	Baljit Singh, J.S. Kanwar, and Pooja Kumari. Modification of dietary fiber psyllium with poly(vinyl pyrrolidone) through network formation for use in slow drug delivery application. <i>Polymer Science (B)</i> , 2018, 60(3), 331-348.
101	Baljit Singh , Bhalla TC and Nisha Sharma. Modification of polystyrene via pectin graft copolymerization to induce biodegradability in polymer composites: Biodegradation and Metal Ion Sorption Studies. International Journal of Environment & Agricultural Science . 2017, 1: 2, 1: 007.
100	Baljit Singh , Baldev Singh, Influence of graphene-oxide nano-sheets impregnation on properties of sterculia gum-polyacrylamide hydrogel formed by radiation induced polymerization. International Journal of Biological Macromolecules . 99 (2017) 699–712.
99	Baljit Singh , Abhishek Dhiman, Design of Antibiotic Drug Loaded Carbopol-Crosslinked-Poly (2-Hydroxyethylmethacrylate) Hydrogel for Wound Dressing Applications. American Journal of Drug Delivery and Therapeutics ,2017,4(1:2), 1-9.
98	Baljit Singh , Sushma Sharma and Abhishek Dhiman, Acacia gum polysaccharide based hydrogel wound dressings: Synthesis, characterization, drug delivery and biomedical properties. Carbohydrate polymers , 2017, 165,294-303.
97	Baljit Singh , Lalit Varshney, Sanju Francis and Rajneesh. Synthesis and characterization of tragacanth gum based hydrogels by radiation method for use in wound dressing application. Radiation Physics and Chemistry , 2017, 135, 94-105.
96	Baljit Singh , Lalit Varshney, Sanju Francis and Rajneesh, Designing sterile biocompatible moxifloxacin loaded trgacanth-PVA-alginate wound dressing by radiation crosslinking method. Wound Medicine , 2017, 17, 11-17.
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91	Baljit Singh and Ajay Kumar, Radiation formation of functionalized polysaccharide-protein based skin mimicking semi- inter penetrating network for biomedical application. International Journal of Biological Macromolecules , 2016, 92, 1136-1150.
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85	Baljit Singh , chapter, Sterculia Gum: Therapeutic and Biomedical Applications” for the <i>Encyclopedia of Biomedical Polymers and Polymeric Biomaterials</i> (EBPP) Published by Taylor and Francis Group, 711 Third Avenue, 8th Floor, New York, NY 10017. 2016. ISBN: 1-4398-9879-0; eISBN: 1-4665-0179-0.
84	Baljit Singh and Abhishek Dhiman , Designing bio-mimetic moxifloxacin loaded hydrogel wound dressing to improve antioxidant and pharmacology properties. RSC Advances , 2015, 5, 44666.
83	Estefânia Vangelie Ramos Campos, Jhones Luiz de Oliveira, Leonardo Fernandes Fraceto, Baljit Singh , Polysaccharides as safer release systems for agrochemicals. Agronomy for Sustainable Development , 2015, 35(1) 47-66.
82	Baljit Singh , Chapter “Microspheres: Role in drug delivery applications” in Book “Microspheres: technologies, Applications and Role in Drug Delivery Systems” edited by Editors: Leonardo Fernandes Fraceto, Daniele Ribeiro de Araújo , Chapter 10, 2015, 221-243, Nova Science Publishers , Inc. NY 11788-3619, USA, ISBN: 978-1-63463-089-4.
81	Baljit Singh , A. Sharma, A. Dhiman, S. Kumar, Mechanical, Mucoadhesive and Biocompatibility Behavior of Hydrogel Films: A Slow Anticancer Drug Delivery System. American Journal of Polymer Science and Technology , 2015; 1(1): 1-8.
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78	Baljit Singh and Vikrant Sharma. Correlation study of structural-parameters of bioadhesive polymers in designing tunable drug delivery system. Langmuir , 2014, 30, 8580–8591.
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75	Baljit Singh and Vikrant Sharma, Influence of polymer network parameters of tragacanth gum-based pH responsive hydrogels on drug delivery. Carbohydrate

	Polymers . 2014,101,928-940.
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