

Personal History (Curriculum Vitae)

Dr. Anupama Sharma,
Dean Alumni Relations, Panjab University

Professor

Coordinator, TEQIP-II and TEQIP-III

Dr. SSB University Institute of Chemical Engineering and Technology,
Panjab University, Chandigarh

India-160014

Phone: 91-0172-2534925 (O), 91-9815177772 (M)

Email: anupamachem@gmail.com, anupamasharma@pu.ac.in

Date of Birth: April 10, 1972



Mission of my Teaching and Research

To make sustained efforts in enhancing Panjab University's seminal contributions towards developing scientific temper; generation, dissemination of knowledge and intellectual capital through value based, socially relevant teaching, research and outreach activities.

Qualifications

Ph.D. (Faculty of Engineering and Technology)

M.B.A. (Finance) (P.T.)

M.E. (Chemical Engineering)

Examination	University /Board	Year of Passing	Distinctions
B.E. (Chemical Engineering)	Panjab University, Chandigarh	1993	1 st Class with Distinction
M.E. (Chemical Engineering)	Panjab University, Chandigarh	1995	Silver Medallist
M.B.A. (Finance) (P.T.)	Panjab University, Chandigarh	1999	Gold Medallist
Ph.D. in Faculty of Engineering & Technology	Panjab University, Chandigarh	2005	
PG Diploma in Statistics	Panjab University, Chandigarh	1996	Gold Medallist
Diplôme D'Études en Langue Française Delf B1	Ministère De Éducation Nationale, République Française	2010	

Professional Training

1. Part of **Leadership for Academicians Programme (LEAP2)**, a flagship Leadership Development training programme of MHRD. Attended 2 weeks training programme at **IIT Kharagpur** and one week at **IFM Cambridge** as part of LEAP.

2. **Attended Orientation Workshop on Outcome Based Education and Accreditation** on August 31, 2019 at New Delhi organised by National Board of Accreditation, India
3. Successfully completed two weeks Online Training Programme on **Science Administration and Research Management** organised by Academic Staff College of India, Hyderabad and sponsored by Department of Science & Technology (DST), Govt. of India conducted from Dec 07th to Dec 18th, 2020.
4. Attended 5-day Faculty program on "**End to End Innovation**" conducted by Tata Centre for Technology and Design, IIT Bombay and TEQIP III-KITE from **June 17-21, 2019**
5. Attended Management Development Programme on "**Organizational Excellence through Leadership**" at IIM Calcutta from March 3-6, 2017
6. Attended 5-day National workshop on "**Strategic Quality Initiatives in Technical Education**" organized by Engineering Staff College of India at Lakshadweep from Ma8 9-13, 2019
7. Attended National Productivity Council's Residential Training Programme on "**Project Management and Strategic Financial Planning**" Gangtok, Sikkim from 2.05.2016 06.05.2016
8. Attended 3 day programme on "**Leadership in University Management**" at Singapore organized by Temasek Foundation and **National University of Singapore** from September 29, 2015 to October 1, 2015 for selected Coordinators and Heads/ Vice Chancellors of TEQIP-II project.

International Collaborations

1. **Collaborator:** Prof. Dr. Christian Paulik, Institute for Chemical Technology of Organic Materials, Johannes Kepler University Linz, Austria, Altenbergerstrasse 69, 4040 Linz, Austria **(2021-2024)**
Project Title: Magnetic Organic Framework (MOF) loaded functionalized cellulose sponge as an ecological and versatile tool for environmental applications: A step towards biomass valorization
2. **Collaborator:** Prof. Frederic Guittard, University of Nice Sophia Antipolis, Nice, France
Area: Superhydrophobic cellulose nanofibers
3. **Collaborator:** Prof. Hideaki Yoshitake, Yokohama National University, Japan
Area: JSPS-MEXT International Exchange Programme **(2022-2027)**

Academic Contributions

- 1) Member, **Domain Experts Group (DEG)** for development of the **CSIR Mission Mode Project on 'Depolymerization of Plastics to Value-added Products (DPVP)'**
- 1) **Member, Peer Team for National Assessment and Accreditation Council (NAAC) and National Board of Accreditation (NBA) accreditations**
- 2) Member, Monitoring committee for CSIR-NMITLI on the '**Development of Innovative eco-friendly / formaldehyde free Fluorescent Pigments for vast array of water and solvent based applications**'
- 3) **Coordinator**, Technical Education Quality Improvement programme (TEQIP-II and III), A World Bank Initiative, SSBUI CET since 2014

- 4) **Coordinator**, DRS-1, Special Assistance Programme (SAP), University Grants Commission, New Delhi (2013-2017)
- 5) Member, Core committee, Centre for Potential for Excellence (CPEPA) on **Nanotechnology, Nanocomposites and their Applications** a UGC Project for Panjab University
- 6) **Member, Board of Studies**, Department of Chemical Engineering, Veer Madho Singh Bhandari Uttarakhand Technical University, Dehradun, **Member, Board of Studies**, Department of Chemical Engineering, Thapar University, Patiala and **Member, Board of Studies**, School of Chemical Engineering and Physical Sciences, Lovely Professional University (LPU)
- 7) **Former Secretary**, Asian Polymer Association
- 8) **Coordinator, Faculty Developed Programme on E-Content Development and Delivery** organised under TEQIP-III from August 19-23, 2020
- 9) **Coordinator, Faculty Development Programme on “Pedagogical Techniques for Virtual Classroom”** organised under TEQIP-III from September 2-6, 2020
- 10) **Faculty Coordinator**, Zero Waste Technical Fest for students **Aanwik 2019** organised by Dr. SSB UICET under TEQIP-III from March 15-17, 2019
- 11) **Organising Chair, International Conference** on "Circular Economy: Driving Towards Sustainability" organised jointly by YNU, Japan and PU, India on August 19-20, 2021
- 12) **Organising Chair, International Conference on Harnessing Engineering Technology and Innovation for Sustainable Development** Organised by Dr. SSB UICET, Panjab University on September 31-October 1, 2016
- 13) **Organising Secretary, NanoSciTech 2017**, on the theme, **“Expanding Horizons on Nanotechnology: Next Gen Challenges in Biomedical Sciences”** organized by Panjab University on November 9,10, 2017
- 14) **Organising Secretary, NanoSciTech 2016**, on the theme, **“Improving Quality of Life using Nanotechnology: Potential Role of Polymers”** organized by Panjab University on February 18-20, 2016
- 15) **Organising Chair, International Conference on Harnessing Engineering Technology and Innovation for Sustainable Development** Organised by Dr. SSB UICET, Panjab University on September 19-20, 2014
- 16) **Organising Secretary, International Conference on Nanotechnology in the Service of Health, Environment & Society (NanoSciTech-2014 being organized by Panjab University** on February 12-15, 2014
- 17) **Organising Secretary, International Conference** on Frontiers in Nanoscience, Nanotechnology and their Applications, **NanoSciTech-2012** conducted by Panjab University on February 15-18, 2012
- 18) **Organising Secretary, International Conference on Polymer Science and Engineering; Emerging Dimensions (PSE-2010)**, Panjab University Chandigarh (November 26-27, 2010)

- 19) **Organising Chair**, International Conference on “**Polymers on the Frontiers of Science and Technology**” (APA-2013) held on February 21-23, 2013.
- 20) **Organising Secretary**, UGC sponsored **National Seminar on Green Technologies, Energy Security and Sustainable Development organized by UICET under Assistance Programme (SAP)**, University Grants Commission
- 21) Frequently invited as **subject expert** for Development and Revision of courses on Chemical Engineering and Technology, Rubbers and Plastics, Polymer Science and Technology for Polytechnic Institutes in the States of Punjab, Haryana, Delhi and Uttaranchal by NITTR, Chandigarh
- 22) Knowledge of French Language and **Cleared Delf B1, Ministere de L’Education Nationale, France**

Professional Experience

Institution	Designation	Nature of appointment	Date of Joining	Date of Leaving
Amrit Engineering (subsidiary of AmritBanaspati Company)	Design Engineer	Regular	1.6.1995	15.5.1997
Profab Systems Engg. (P) Ltd.	Manager (Designs)	Regular	16.5.1997	30.6.1998
Thapar Institute of Engineering and Technology (TIET), Patiala	Lecturer in Chemical Engineering	Regular	28.4.1999	26.10.1999
Panjab University	Lecturer in Chemical Engineering	Regular	27.10.1999	
Panjab University	Reader in Chemical Engineering (Open)	Regular	1.07.2005	
Panjab University	Associate Professor in Chemical Engineering	Regular	1.07.2008	31.5.2011
Panjab University	Professor in Chemical Engineering	Regular	1.07.2011-Continuing	

Recognitions/ Awards

- **Young Researcher Award**, Asian Polymer Association, 2017
- **Career Award for Young Teachers (CAYT)**, All India Council for Technical Education (AICTE), India (Year 2006)
- **Indo Swiss Bilateral Research Initiative (ISBRI) fellowship** from the Swiss State Secretariat for Education and Research and DST international division
- **Gold Medal** (M.B.A (Finance)(P.T.)), 1999 from Panjab University, Chandigarh
- **Gold Medal** (PG Diploma in Statistics), 1996 from Panjab University, Chandigarh
- **Silver Medal**, 1995, M.E. (Chemical) from Panjab University, Chandigarh
- Organizing Secretary (Engineering Section, Chandigarh Science Congress (CHASCON), 2008)
- **Resource person** for “Orientation of Elected Women in Urban Local Bodies” organized by Centre for Women studies & Development, Panjab University, Chandigarh in collaboration with Mantra Consultancy Group, United Kingdom

- **Visiting Scholar to** LIPHT, ECPM, Universite de Strasbourg, Strasbourg, France; Akron University, USA
Ecole Polytechnique de Lausanne, Switzerland; Fudan, University, Shanghai, China; Univerity Technologi Malaysia, Johor, Malaysia
Under **Career Award for Young Teachers**

PhD Guided (Completed)

S.No.	Student's Name	Title of the thesis
1.	Dr. Gaurav Verma	Preparation and Characterisation of Polyurethane-Organoclay Nanocomposite Coatings
2.	Dr. Jagvir Singh	Synthesis and Characterisation of Zinc Oxide Nanostructures and Fabrication of ZnO/ Polymer Hybrid Film
3.	Dr. Mandeep Singh	Synthesis and Characterization of Surface Modified Cellulose Nanofibrils Reinforced Thermoplastic Starch Nanocomposites
4.	Dr. Dheeraj Ahuja	Synthesis and Characterization of Lignopolyol/Cellulose Nanofibers based Polyurethane Nanocomposite from Lignocellulosic Waste Material for Biomedical Applications
5.	Dr. Sheetal Monga	Synthesis & Characterization of Lactide based Biodegradable Polyurethane Nanocomposites
6.	Dr. Lokesh Kumar	Synthesis and Characterization of Nano-Hydroxyapatite / Polyurethane Nanocomposite Scaffolds
7.	Dr. Anupama Mogha	Synthesis And Characterization of clay/MWCNT's Reinforced Castor oil based Hybrid Polyurethane Nanocomposites
8.	Dr. Komal	Facilitative removal of pollutants from wastewater employing biomass originated nanomaterials with tunable characteristics
9.	Dr. Kanu Gupta	Fabrication and Functionalization of Biomass Derived Nanomaterials for the Remediation of Environmental Pollution
10.	Dr. Paramdeep Kaur	Fabrication of Magnetically Recoverable Nanomaterials with Tunable Characteristics Intended Towards Advanced Environmental Applications

Major Research Projects Undertaken/ Ongoing

S.N	Title	Agency	Period	Grant Mobilized (INR)
1.	Magnetic Organic Framework (MOF) loaded functionalized cellulose sponge as an ecological and versatile tool for environmental applications: A step towards biomass valorisation PI: Anupama Sharma Co-PI: Sonal Singhal	DST International Division (Indo-Austria)	2020-2023	
2.	Magnetically Modified Superhydrophobic Porous Cellulose Sponge from Waste Lignocellulosic Biomass for Oil Water Separation	CSIR (Ongoing)	2019-2022	22,00,000
3.	Utilizing the versatile platform of biomass derived nanocellulose based magnetic nanocomposites for the facilitative removal of organic pollutants from wastewater ((PI-Prof. Sonal Singhal) (Co-PI: Prof. Anupama Sharma)	DST (Ongoing)	2019-2021	50,00,000
4.	Development of polymeric nanocomposite pour point depressants for waxy crude oil in North East India PI: Dr. Rituraj Singh Co-PI: Prof. Anupama Sharma	TEQIP CRS Scheme (Ongoing)	2019-2020	19,87,000
5.	Providing potable water using functionalised cellulose as catalyst from locally available biomass	DST (ongoing)	2018-2021	48,00,000
6.	Microwave Assisted Green Synthesis of Shape Memory Biodegradable Polyurethanes and their Nanocomposites	CSIR	2014-2017	12,50,000
7.	Functionalised Graphene Epoxy Nano-Composites; Synthesis, Characterization, Optimization and Possible Applications	DRDO	2013-2015	26,83,000
8.	Modernization of Polymer Composite laboratory	AICTE	2013-14	14,00,000
9.	Cellulose nanofibrils reinforced castor oil based polyurethane shape memory nanocomposites for medical applications	UGC Major Project	2014-2017	15,83,000
10.	Nanoparticles, Nanocomposites and their Applications UGC centre for Excellence in Particular Areas (as Co-investigator)	UGC	2012-2017	3,85,00,000 (CPEPA)
11.	Study of Influence of processing method on the exfoliation process for organically modified clay systems in Polyurethane nanocomposite coatings	UGC Major project	2008-2011	7,38,000
12.	Polyurethane/ Polystyrene Interpenetrating Network Glass Fiber Composites: An Evaluative Study	AICTE	2003-2006	3.5. lakhs
13.	Dispersion and Properties of Silica and Titanium dioxide Nanoparticles based Polyurethane Coatings	AICTE	2006-2009	10.5 lakhs

List of Publications

Books Published

Nanotechnology: Novel Perspectives and Prospects

McGraw Hill Education, 2015, ISBN 13:978-93-392-2109-6

Bhupinder Singh, Anupama Kaushik, S. K. Mehta and Surya Kant Tripathi

Emerging Paradigms of Nanotechnology, Pearson Education, 2012, ISBN 978-81-317-8991-9

Ranbir Chander Sobti, Anupama Kaushik, Bhupinder Singh and Surya Kant Tripathi

Orchid ID: 0000-0001-6010-861X

Scopus ID: 8944640900

h-index: 20

Published Papers in International Journals

1. T. Garg, Renu, J. Kaur, P. Kaur, Nitansh, V. Kumar, K. Tikoo, A. Kaushik, S. Singhal, An innovative Z-scheme g-C₃N₄/ZnO/NiFe₂O₄ heterostructure for the concomitant photocatalytic removal and real-time monitoring of noxious fluoroquinolones, *Chemical Engineering Journal* 443 (2022) 136441. **(Impact factor 16.744)**
2. S. Kumar, P. Tewatia, S. Samota, G. Rattan, A. Kaushik, Ameliorating properties of castor oil based polyurethane hybrid nanocomposites via synergistic addition of graphene and cellulose nanofibers, *Journal of Industrial and Engineering Chemistry* 109 (2022) 492-509. **(Impact factor 6.76)**
3. K. Sharma, M. Kaur, G. Rattan, A. Kaushik, Effective biocatalyst developed via genipin mediated acetylcholinesterase immobilization on rice straw derived cellulose nanofibers for detection and bioremediation of organophosphorus pesticide, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 640 (2022) 128484. **(Impact factor 5.518)**
4. S. Samota, R. Rani, S. Chakraverty, A. Kaushik, Biosensors for simplistic detection of pathogenic bacteria: A review with special focus on field-effect transistors, *Materials Science in Semiconductor Processing* 141 (2022) 106404. **(Impact factor 4.644)**
5. P. Tewatia, V. Kumar, S. Samota, S. Singhal, A. Kaushik, Sensing and annihilation of ultra-trace level arsenic (III) using fluoranthene decorated fluorescent nanofibrous cellulose probe, *Journal of Hazardous Materials* 424 (2022) 127722. **(Impact factor 14.224)**
6. P. Kaur, S. Singh, Renu, Jyoti, V. Kumar, K.B. Tikoo, A. Kaushik, S. Singhal, Development of emphatic catalysts for waste water remediation via synchronized free radical and non-free radical routes with composites of strontium hexaferrite, graphene and multi-walled carbon nanotubes, *Ceramics International* 48(4) (2022) 4795-4811. **(Impact factor 5.532)**
7. Komal, K. Gupta, Nidhi, A. Kaushik, S. Singhal, Amelioration of adsorptive efficacy by synergistic assemblage of functionalized graphene oxide with esterified cellulose nanofibers for mitigation of pharmaceutical waste, *Journal of Hazardous Materials* 424 (2022) 127541. **(Impact factor 14.224)**

8. Kaur, M., Tewatia, P., Rattan, G., Singhal, S., & Kaushik, A. (2021). Diamidoximated cellulosic bioadsorbents from hemp stalks for elimination of uranium (VI) and textile waste in aqueous systems. *Journal of Hazardous Materials*, 417, 126060. **(Impact factor 14.224)**
9. Tewatia, P., Kaur, M., Singhal, S., & Kaushik, A. (2021). Wheat straw cellulose based fluorescent probe cum bioadsorbents for selective and sensitive alleviation of uranium(VI) in waste water. *Journal of Environmental Chemical Engineering*, 9(5), 106106. **(Impact factor 7.798)**
10. Renu, Komal, Kaur, R., Kaur, J., Jyoti, Kumar, V.Kumar, Anupama Kaushik. Singhal, S. (2021). Unfolding the electrocatalytic efficacy of highly conducting NiFe₂O₄-rGO nanocomposites on the road to rapid and sensitive detection of hazardous p-Nitrophenol. *Journal of Electroanalytical Chemistry*, 887, 115161. **(Impact factor 4.464)**
11. Kaur, P., Singh, S., Deepeka, Babbar, V., Kumar, V., Tikoo, K. B, Anupama Kaushik Singhal, S. (2021). Aggrandized catalytic performance of transition metal doped strontium hexagonal ferrites for the treatment of malevolent organic pollutants. *Journal of Alloys and Compounds*, 856, 158026. **(Impact factor 5.316)**
12. Mogha, A., & Kaushik, A. (2021). Functionalized multiwall carbon nanotubes to enhance dispersion in castor oil-based polyurethane nanocomposites. *Fullerenes, Nanotubes and Carbon Nanostructures*, 29(11), 907-914.
13. Kaur, R., Dennison, S. R., Burrow, A. J., Rudramurthy, S. M., Swami, R., Gorki, O. P. Katare, Anupama Kaushik, Bhupinder Singh, Kamalinder K. Singh, Nebulised surface-active hybrid nanoparticles of voriconazole for pulmonary Aspergillus demonstrate clathrin-mediated cellular uptake, improved antifungal efficacy and lung retention. *Journal of Nanobiotechnology*, 19(1), 2021, 19. **(Impact factor 10.435)**
14. Komal, Deepeka, Kaur, J., Kumar, V., Tikoo, K. B., Kaushik, A., & Singhal, S. (2021). Coupling the fluorescence and adsorptive properties of biomass-based cellulose–CdS nanocomposite for the alleviation of water contaminants. *New Journal of Chemistry*, 45(24), 10857-10871. **(Impact factor 3.925)**
15. Dheeraj Ahuja, Shiva Dhiman, Gaurav Rattan, Sheetal Monga, Sonal Singhal, Anupama Kaushik, Superhydrophobic modification of Cellulose Sponge fabricated from discarded jute bags for oil water separation, *Journal of Environmental Chemical Engineering*, 9(2), 2021, 105063 **(Impact factor 7.798)**
16. Mogha, A., & Kaushik, A. (2021). Morphological studies on renewable castor oil-based nanocomposites with modified clay and MWCNTs as fillers. *Polymers and Polymer Composites*, 29(6), 740-747.
17. Dheeraj Ahuja, Lokesh Kumar, Anupama Kaushik, Thermal stability of starch bionanocomposites films: Exploring the role of esterified cellulose nanofibers isolated from crop residue, *Carbohydrate Polymers*, 2021, 255, 117466 **(Impact factor 10.723)**
18. Vivek Bisla, Gaurav Rattan, Sonal Singhal, **Anupama Kaushik**, Green and novel adsorbent from rice straw extracted cellulose for efficient adsorption of Hg (II) ions in an aqueous medium, *International Journal of Biological Macromolecules*, 2020, 161, 194-203 **(Impact factor 8.)**
19. Jaspreet Kaur, Komal, Renu, Vinod Kumar, K. B. Tikoo, Sandeep Bansal, **Anupama Kaushik** and Sonal Singhal, Glutathione Modified Fluorescent CdS QDs Synthesized Using Environmentally

Benign Pathway for Detection of Mercury Ions in Aqueous Phase, Journal of Fluorescence (2020) In Press (Impact factor: 1.43)

20. Dheeraj Ahuja, Ashish Singh Rainu, Mandeep Singh, **Anupama Kaushik**, Encapsulation of NPK Fertilizer for Slow Release Using Sodium Carboxymethyl Cellulose-g-Poly (AA-co-AM-co-AMPS)/Montmorillonite clay-based Nanocomposite Hydrogels for Sustainable Agricultural Applications, Trends in Carbohydrate Research, 12(1), 2020, 15-23
21. Anupama Mongha, **Anupama Kaushik**, Morphological Studies on Renewable Castor Oil Based Nanocomposites with Modified Clay and MWCNTs as Fillers, Accepted for publication in Polymer and Polymer Composites, 2020
22. Kanu Gupta, **Anupama Kaushik**, K.B. Tikoo, Vinod Kumar, Sonal Singhal, Enhanced catalytic activity of composites of NiFe₂O₄ and nano cellulose derived from waste biomass for the mitigation of organic pollutants, Arabian Journal of Chemistry, **13(1), 2020, 783-798 (Impact Factor 5.165)**
23. Komal, Gupta Kanu, Kumar Vinod, Tikoo KB, **Kaushik Anupama**, Singhal Sonal. Encrustation of cadmium sulfide nanoparticles into the matrix of biomass derived silanized cellulose nanofibers for adsorptive detoxification of pesticide and textile waste. Chemical Engineering Journal. 2020;385:123700 (**Impact factor: 16.744**)
24. Rupal Malika, Ankita Goyal, Sarita Yadav, Nancy Gupta, Neetu Goel, **Anupama Kaushik**, Vinod Kumar K.B. Tikoo, Sonal Singhal, Functionalized magnetic nanomaterials for rapid and effective adsorptive removal of fluoroquinolones: Comprehensive experimental cum computational investigations, Journal of Hazardous Materials, 364, 2019, Pages 621-634 (**Impact factor 14.224**)
25. Paramdeep Kaur, Sneha Singh, Vinod Kumar, K.B. Tikoo, Bhupendra Chudasama, **Anupama Kaushik**, Sonal Singhal, Interesting makeover of strontium hexaferrites for environment remediation from excellent photocatalysts to outstanding adsorbents via inclusion of Mn³⁺ into the lattice, Journal of Alloys and Compounds 791, 2019, Pages 508-521 (**Impact factor 5.316**)
26. Komal, Kanu Gupta, Simranjeet Kaur, Jasleen Kaur, **Anupama Kaushik**, Sonal Singhal, A comparative analysis of source based distinctly functionalized nanostructured cellulose for the adsorptive removal of toxic colorants, Cellulose, 2019, 26(3), 1703–1724 (**Impact factor 5.044**)
27. Rupal Malik, Anil Kumar Pinnaka, Manpreet Kaur, Vinod Kumar, Kulbhushan Tikoo, Sandeep Singh, **Anupama Kaushik**, Sonal Singhal, Water-soluble glutathione-CdS QDs with exceptional antimicrobial properties synthesized via green route for fluorescence sensing of fluoroquinolones, Chemical technology and Biotechnology, 2019, 94(4), 1082-1090 (**Impact factor 3.174**)
28. Kaur Paramdeep, **Kaushik Anupama**, Singhal Sonal, editors. Comparative evaluation of photocatalytic performance of hexagonal ferrites procured via sol-gel route. Materials Today: Proceedings; 2019, 14, 417-425.
29. Gupta Kanu, Kaur Jaspreet, **Kaushik Anupama**, Singhal Sonal, editors. Stabilization of magnetic ferrite nanostructures with cellulose derived from biomass for the abatement of environmental pollution. Materials Today: Proceedings; 2019, 14, 426-434.
30. Achal K. Pathik, Sheetal Monga and **Anupama Kaushik**, Polylactide: Ring Opening Polymerization of Lactide using Zinc (II) octoate as Catalyst and Optimization of Reaction Parameters, Trends in Carbohydrate Research, 10(2), 2018, 9-17.

31. Monica Bansal, Bhagat Ram, Ghanshyam S. Chauhan, **Anupama Kaushik**, l-Cysteine functionalized bagasse cellulose nanofibers for mercury (II) ions adsorption, *International Journal of Biological Macromolecules*, 112, 2018, 728-736
32. Monica Bansal, Dharamender Kumar, Ghanshyam S. Chauhan, **Anupama Kaushik**, Preparation, characterization and trifluralin degradation of laccase-modified cellulose nanofibers, *Materials Science for Energy Technologies*, 2018, 1(1), 29-37
33. Lokesh Kumar, **Anupama Kaushik**, Synthesis and characterization of etidronic acid (ETD) grafted nano sheets of hydroxyapatite, *Clinical Cases in Mineral and Bone Metabolism*, 2018, XV (2), 201-208
34. Dheeraj Ahuja, **Anupama Kaushik**, Mandeep Singh, Simultaneous Extraction of Lignin and Cellulose Nanofibrils from waste jute bags using One Pot Pre-treatment, *International Journal of Biological Macromolecules*; 2018, 107 (Part A), 1294-1301 (**Impact Factor 4.784**)
35. Dheeraj Ahuja, **Anupama Kaushik**, Ghanshyam S. Chauhan, Fractionation and physicochemical characterization of lignin from waste jute bags: Effect of process parameters on yield and thermal degradation, *International Journal of Biological Macromolecules*; Vol 97, 2017; 403-410 (**Impact Factor 3.096**)
36. Kumar, L., Kumar, R., **Kaushik, A.**, Synthesis of bioactive scaffolds based on polyurethane and surface modified hydroxyapatite (HA) nanocomposites for bone repairing and regeneration, *Trends in Biomaterials and Artificial Organs*, 31(2) 2017, 48-54
37. L Kumar, **A Kaushik** , Surface Modification of Nano-Hydroxyapatite Using Bisphosphonate Moieties: Effect on Morphology and Crystalline Nature at Higher Temperature, *Trends in Biomaterials and Artificial*, 31(2), 2017
38. Lokesh Kumar, **Anupama Kaushik**, Synthesis and characterization of triethanolamine (TEA) grafted nano sheets of hydroxyapatite, *Asian Journal of Biomaterial Research* 2017; 3(4):19-32
39. Sheetal Monga, **Anupama Kaushik**, Bhuvanesh Gupta, Optimization of controlled ring-opening polymerization of l-lactide to hydroxyl terminated polylactides using zinc acetate catalyst, *Polymer Bulletin*, 2017, 74(12) (Impact factor 1.858)
40. Ghanshyam Chauhan, Monica Bansal, **Anupama Kaushik**, Avantika Sharma, Extraction and functionalization of bagasse cellulose nanofibers to Schiff-base based antimicrobial membranes, *International Journal of Biological Macromolecules*; Vol 91, 2016; 887-894 (**Impact Factor 3.096**)
41. Dheeraj Ahuja, **Anupama Kaushik**, Castor Oil based Polyurethanes Nanocomposites Reinforced with Organically Modified Clay; Synthesis and Characterization, *Journal of Elastomers and Plastics*; In Press (**Impact Factor 1.2**)
42. Anuradha, Sheetal Monga, Monica Prabhakar and **Anupama Sharma**, Bionanocomposites reinforced with cellulose nanofibers derived from sugarcane bagasse, *Polymer Composites*; 39 (S1), E55-64 (Impact Factor 2.268)
43. Gaurav Verma, **Anupama Kaushik**, Anup Ghosh, Nano-interfaces between clay platelets and polyurethane hard segments in spray coated automotive nanocomposites, *Progress in Organic Coating*, Vol 99, 2016; 282-294 (**Impact Factor 5.161**)

44. Mandeep Singh, Anupama Kaushik, Dheeraj Ahuja, Surface Functionalization of Nanofibrillated Cellulose Extracted From Wheat Straw: Effect of Process Parameters, Carbohydrate Polymers 150: 48-56, 2016 (**Impact Factor 9.381**)
45. **Anupama Kaushik**, R Kaur, Thermoplastic starch nanocomposites reinforced with cellulose nanocrystals: effect of plasticizer on properties, Composite Interfaces 23 (7), 701-717, 2016 (**Impact Factor 2.17**)
46. Sheetal Monga, **A Kaushik**, B Gupta, Optimization of Process Parameters for Controlled Ring Opening Polymerization of Lactide to Produce Poly (L-Lactide) Diols as Precursor for Polyurethanes, Polymer-Plastics Technology and Engineering, In Press, 2016 (**Impact Factor 1.481**)
47. Sheetal Monga, **A Kaushik**, B Gupta, Synthesis of L-Lactide Based Segmented Polyurethanes, Polymer-Plastics Technology and Engineering, 55 (9), 943-948, 2016 (**Impact Factor 1.481**)
48. Sapana Kumari, Ghanshyam S. Chauhan, Sheetal Monga, **Anupama Kaushik** and Jou-Hyeon Ahn, New lignin-based polyurethane foam for wastewater treatment, RSC Advances, 6, 77768-76, 2016 (**Impact Factor 3.289**)
49. **Anupama Kaushik**, Jatinder Kumra, Morphology, thermal and barrier properties of green nanocomposites based on TPS and cellulose nanocrystals, Journal of Elastomers and Plastics, (3): 284-299, 2014 (**Impact Factor 1.2**)
50. **Anupama Kaushik**, Alka Garg, Castor Oil Based Polyurethane Nanocomposites with Cellulose Nanocrystallites Fillers, Advanced Materials Research 856, 309-313, 2014
51. **Anupama Kaushik**, Isha Bharadwaj, Sheetal Monga, Polyvinyl alcohol/cellulose nanofiber nanocomposites derived from steam exploded pine needles, Trends in Carbohydrate Research 5 (4), 25-32, 2013
52. Jagvir Singh, AP Bhondekar, ML Singla, **Anupama Sharma**, Facile Route for the Synthesis of a Vertically Aligned ZnO–PANI Nanohybrid Film for Polyphenol Sensing, ACS applied materials & interfaces 5 (11), 5346-5357, 2013 (**Impact Factor 9.229**)
53. Gaurav Verma, **Anupama Kaushik**, Anup K Ghosh, Preparation, characterization and properties of organoclay reinforced polyurethane nanocomposite coatings, Journal of Plastic Film and Sheeting, 29(1), 56-77, 2013 (**Impact Factor 1.120**)
54. Anupama Kaushik, Paramjit Singh, Castor oil/trimethylol propane-based polyurethane reactions: Modeling in a batch reactor, Journal of Applied Polymer Science 125(52), E51-E60, 2012 (**Impact Factor 1.6**)
55. Gaurav Verma, **Anupama Kaushik**, Anup K Ghosh, Developing and Characterizing Polyurethane-Nanoclay Coatings for Better Scratch & Mar Resistance, Advanced Materials Research 585, 473-477, 2012
56. Anupama Kaushik, Mandeep Singh, Isolation and characterization of cellulose nanofibrils from wheat straw using steam explosion coupled with high shear homogenization, Carbohydrate research 346 (1), 76-85, 2011 (**Impact Factor 2.104**)
57. Anupama Kaushik, Dheeraj Ahuja, Vipin Salwani, Synthesis and characterization of organically modified clay/castor oil based chain extended polyurethane nanocomposites, Composites Part A: Applied Science and Manufacturing 42 (10), 1534-1541, 2011 (**Impact Factor 6.444**)

58. **Anupama Kaushik**, Ramandeep Kaur, Thermal Behaviour of Nanocomposites based on Glycerol Plasticized Thermoplastic Starch and Cellulose Nanocrystallites, AIP conference Proceedings, 1393(1), 353-354, 2011
59. Gaurav Verma, **Anupama Kaushik**, Anup K Ghosh, Interaction of Nano-Sized Materials With Polymer Chains in Polymer-Nanocomposite Thin Films-An AFM Perspective, AIP conference Proceedings, 1393(1), 377-378, 2011
60. **Anupama Kaushik**, Singh Mandeep, Verma Gaurav Green Nanocomposites based on Thermoplastic Starch and Steam Exploded Cellulose Nanofibrils from Wheat Straw, Carbohydrate Polymers, 2010, 82(2), 337-345 (**Impact factor 9.381**)
61. **Anupama Kaushik**, Paramjit Singh, Jyoti, Mechanical and electrical conductivity study on epoxy-graphite composites, Journal of Reinforced Plastics and Composites April 2010, 29 (7): 1038-44 (**Impact factor 1.188**)
62. **Anupama Kaushik**, Jyoti Kaushik, Solvent absorption characteristics of epoxy-colloidal silica nanocomposites, Journal of Reinforced Plastics and Composites September 2010, 29 (18), 2821-33
63. **Anupama Kaushik**, Paramjit Singh, Verma Gaurav, Rekha, Morphology, X-Ray diffraction and Mechanical properties of Resol- Montmorillonite clay Composites, Journal of Thermoplastic Composite Materials, January 2010, 23(1), 79-97
64. **Anupama Kaushik**, Paramjit Singh, Subita Bhagat, Preparation and Characterization of Graphite Flakes-Filled Polyester Composites, Polymer-Plastics Technology and Engineering 2009, 48(8): 802 – 807,
65. **Anupama Kaushik**, Paramjit Singh Kinetics of Reaction Castor Oil Trimethylol Propane Polyol and Methane Di-isocyanate, International Journal of Polymeric Materials, August 2008, 57(8): 815-831.
66. **Anupama Kaushik**, Paramjit Singh & Jyoti Kaushik The Mechanical Properties and Chemical Resistance of Short Glass-Fibre-Reinforced Epoxy Composites International Journal of Polymeric Materials 2006, 55(6): 425 – 440
67. **Anupama Kaushik**, Paramjit Singh, Kinetic Study of Polyurethane Reaction Between Castor Oil/ TMP Polyol and Diphenyl Methane Diisocyanate in Bulk International Journal of Polymeric Materials, 2006, 55(8): 549 – 561
68. Paramjit Singh, **Anupama Kaushik**, Kirandeep, Mechanical And Transport Properties of Colloidal Silica Unsaturated Polyester Composites, Journal of Reinforced Plastics and Composites, 2006; 25(2): 119 – 140
69. Paramjit Singh, **Anupama Kaushik**, Pooja Gupta, Characterization of Short Glass Fiber Reinforced Castor Oil Based Polyurethane Polystyrene Interpenetrating Networks, International Journal of Polymeric Materials, 2006, 55(5): 359 – 372
70. **Anupama Kaushik**, Paramjit Singh, Synthesis and Characterization of Castor Oil/Trimethylol Propane Polyol as Raw Materials for Polyurethanes Using Time-of-Flight Mass Spectroscopy, International Journal of Polymer Analysis and Characterization, 2005, 10(5-6): 373 - 386
71. Paramjit Singh, **Anupama Kaushik**, Kirandeep, Mechanical Properties and Swelling Behavior of Short Glass Fiber Reinforced Polyester Composites, Journal of Thermoplastic Composite Material, 2005, 18(6): 543 – 559

72. Paramjit Singh, **Anupama Kaushik**, Pooja Gupta, Characterization of Castor Oil and Diphenyl Methane Diisocyanate Based Polyurethane Polystyrene Interpenetrating Networks, Journal of Reinforced Plastics and Composites, 2005,24(14):1479– 1491

Articles/ Chapters published in Books

S.No.	Title with page no.	Authors	Book Title, editor & publisher
1.	Biodegradable shape memory polyurethane and its nanocomposites for biomedical applications	Dheeraj Ahuja, <u>Anupama Kaushik</u>	Advances in Polymers for Biomedical Applications, Nova Publisher ISBN: 978-1-53613-612-8 September 2018
2.	Bio-based polyurethanes and its applications	Dheeraj Ahuja, <u>Anupama Kaushik</u>	Encyclopaedia of Polymer Applications, Taylor and Francis Print ISBN: 9781498729932 eBook ISBN: 9781351019422 January 2019
3.	Metal filled Castor oil based Polyurethane Interpenetrating Networks and characterization	<u>Anupama Kaushik</u> and Paramjit Singh	Polymers, Synthesis and Applications Editors: Paramjit Singh, D. K. Vohra, Daljit Singh. 1st ed. Allied Publishers Ltd., New Delhi. pp.131-37
4.	Human Resource Excellence through Technology Management, pp. 409-16	<u>Anupama Kaushik</u>	Human Resource Development Editors; B. B. Tondon, P.P Arya Deep and Deep Publishers, New Delhi
5.	Enhancing Managerial Effectiveness: The technological Imperatives pp. 401-08	<u>Anupama Kaushik</u>	Human Resource Management and Accounting” Editors; B. B. Tondon, P.P Arya Deep and Deep Publishers, New Delhi
6.	Infrastructure development in India: Imperatives of Foreign investments pp. 148-53	<u>Anupama Kaushik</u>	Multinationals Versus Swadeshi Today : A Policy Framework For Economic Nationalism, Editors; B. B. Tondon, P.P Arya Deep and Deep Publishers, New Delhi
7.	Biodegradable Nanocomposites based on Starch pp. 305-322	<u>Anupama Kaushik</u>	Advances in Polymeric Science Editors: Shishir Sinha, OP Pandey, Vinay Kumar and Parmod Kumar , Year: 2011 Publisher: Studium Press (India) Pvt. Ltd.
8.	Polyurethane and Polyurethane clay Nanocomposites pp. 57-84	<u>Anupama Kaushik</u>	Advances in Polymeric Science Editors: Shishir Sinha, OP Pandey, Vinay Kumar and Parmod Kumar , Year: 2011, Publisher: Studium Press (India) Pvt. Ltd.