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Reserach H-Index : 14
Research Citations: ~1200
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Experience:

- 2014/ 1-To date** *AVP-R&D,*
University of Petroleum and Energy Studies (UPES)
Energy Acres
Dehradun-24800
India
- 2012/11-2013 /12** *Research Assistant Professor,*
School of Mechanical & Aerospace Engineering
Building 312, Room 308, Seoul National University,
Seoul, 151-742 ,
South Korea
- 2010/09-2012/10** *JSPS (Japan Society for Promotion of Sciences) Fellow*
Advanced Material Institute of Technology and Scienc
The University of Tokushima
Tokushima-770-0815
Japan
- 2009/02-2010/08** *Max Planck Research Fellow,*
Max Planck Institute of Colloid and Interfaces
Department of Biomaterials
Wissenschaftpark, Golm-14476,
Germany
- 2007/06-2009/01** *Postdoctoral Researcher*
BK21 Post-Doctoral Fellow
School of Mechanical and Aerospace Engi
Seoul National University, Seoul 151-742,
South Korea
- 2006/02-2007/5** *Business Development Manager-International business*
SRL Ranbaxy Ltd. Plot 113, MIDC-15TH Street
Andheri-East, Mumbai-400069.
India
- 2002/05-2005/12:** *Senior Research Fellow , DST, Govt. of India.*
Department of Polymer Science and Engineering
National Chemical Laboratory,
Dr. Homi Bhabha Road, Pashan, Pune-411008,

Jitendra Kumar Pandey

India.

1999/06–2002/04

Project Associate

Council of Scientific and Industrial Research, Govt.
India
Department of Polymer Science and Engineering
National Chemical Laboratory,
Dr. Homi Bhabha Road, Pashan, Pune-411008,
India

Teaching:

2014/1- Present:

College of Engineering Studies, Dept. of Mechanical
Eng., UPES Energy Acres, Dehradun-248001. India
[4 credits / sem.]

2012/11-2013/12:

School of Mechanical Science and Engineering, Dept.
of Aerospace Eng. Seoul National University, Seoul,
South Korea [Biocomposites]

2006/07- 2005/6

Janta College Bakewar, (Affiliated to CSJM Univ.
Kanpur), Etawah [Industrial Chemistry]

Miscellaneous:

- ✉ 2015- Organizing Committee Member for NCBB 2015, UPES- Dehradun
- ✉ 2015-Present- Member Library Committee, UPES-Dehradun
- ✉ 2014-present- Miscellaneous R&D activities, UPES-India
- ✉ 2014- Organizing Committee Member, 3rd International Conference on Nanotechnology, Bharti Vidya Peeth, 14-15 Oct. 2014 (Key Note speaker)
- ✉ 2013- Editor-in-Chief. Special Issue of Journal of Bio-based Material and Bioenergy, Academic Scientific Publisher, California, USA
- ✉ 2012-present: Editorial Board of International Journal of Precision Engineering and Manufacturing. Springer, Netherland.
- ✉ 2012- Editor-in-Chief. Special Issue of Journal of Bio-based Material and Bioenergy, Academic Scientific Publisher, California, USA
- ✉ 2011-present International organizing committee member of International Symposium on Green Manufacturing and Applications, ISGMA 2011 (Korea), 2012 (Korea), 2013 (Hawaii, USA)
- ✉ 2011: Chaired Four sessions in 18th International Conference on Composite Materials 2011 (ICCM 18), Jeju, Korea, Aug. 21-26, 2011.
- ✉ 2011: Chaired Two sessions in International Symposium on Green Manufacturing and Applications, ISGMA 2011, Seoul, Korea, Oct 6-7, 2011.

Jitendra Kumar Pandey

- ✉ **2011-Present**-Editor: Editing Series of Four Books for Springer, Germany
- ✉ **2007-Present**: Supervising experiences: working with graduate students (Academics)
- ✉ **Member of Reviewer panel**: RSC-Advances (RSC-UK), Materials Letter (Elsevier), Journal of composites material (Elsevier) International Journal of Precision Engineering and Manufacturing (Springer), IJPEM-GT (Springer). Carbohydrate Polymers, Indian Journal of Marine Sciences, Journal of Biobased Materials and Bioenergy, Journal of Renewable and Sustainable Energy,

Education:

- ✉ Ph.D. in Chemistry (Polymer Science), 2007, in **National Chemical Laboratory-Pune** by , University of Pune, India
Topic: Degradability of Polymer Composites from Renewable Resources.
- ✉ Master of Science (Organic Chemistry), 1998, University of Kanpur, India-(**68 %**),
- ✉ Bachelor of Science (Bio-Chemistry), 1996, University of Kanpur, India- (**78 %**)
- ✉ Intermediate (Science subjects), 1992, UP Board Allahabad (**61 %**)
- ✉ High school (Science subjects), 1990, UP-Board Allahabad, (**65 %**)

Awards:

- ✉ **2009: Most cited article award**, International Journal of Precision Engineering and Manufacturing Most Cited Articles Award, 2008 to 2009," Springer, Netherland, May 18, 2010 (IJPEM Vol.9, No. 2, pp. 81-83, 2008).
- ✉ **2002: Young Student Award** by Society for Polymer Science of India in symposia – MACRO 2002, held at **Indian Institute of Technology, Kharagpur**, India
- ✉ **2002, 2003, 2004: Winner**, debate competition held at National Chemical Laboratory, Pune, India
- ✉ **1996: V.K Rathore Medal** by the Vice-chancellor of Kanpur University for obtaining the second highest position in graduate school.

Technical Skills:

- ✉ **Nano-materials development**: Surface modification of polymer and filler, *insitue* processing, synthesis of additives
- ✉ **Processing**: Single screw extruder, twin screw extruder, injection molding
- ✉ **Mechanical analysis**: Single fiber pull-out testing, tensile and impact Testing.
- ✉ **Morphology**: Hands on: SEM, Optical microscopy, TEM.
- ✉ **Spectroscopy**: Hands on: ATR-FTIR, and UV-Vis spectroscopy.
- ✉ **Thermo-mechanical**: Hands on: DSC, TGA,
- ✉ **Ageing analysis**: Accelerated (Thermal/ UV-Vis) and natural weathering (by in house built compositing devices)

Publications:

A. Journal:

- | Title | Authors | Journal |
|---|--|---|
| 1. UV Irradiated biodegradability of EP copolymers, LDPE and PP in composting and culture environments, | Jitendra K. Pandey and R.P.Singh | <i>Biomacromolecules</i> , 2, 880, (2001). |
| 2. Synthesis, Characterization and performance evaluation of polymeric HALS in styrenic polymers, | A.Vishwa Prasad and Jitendra K.Pandey , R.P.Singh | <i>Macromolecular Chemistry and Physics</i> , 202, 672, (2001). |
| 3. A novel photoadditive for polyolefins photo-stabilization: Surface Grafted Hindered Amine Light Stabilizers, | Shrojal M. Desai, Jitendra K. Pandey , R. P. Singh | <i>Macromolecular Symposia</i> , 169, 121, (2001). |
| 4. Biodegradation of packaging materials: composting of polyolefins, | Jitendra K.Pandey , A.Pratheep Kumar, R.P.Singh | <i>Macromolecular Symposia</i> , 197,411, (2003). |
| 5. Synthesis of new polymeric hindered amine light stabilizers: Performance evaluation in styrenic polymers, | R. P. Singh, A. N. Patwa, S.M.Desai, Jitendra K.Pandey , S. S. Solanky, | <i>Journal of Applied Polymer Science</i> , 90, 1126, (2003). |
| 6. Ecofriendly behavior of host matrix in composites prepared from PP and agro waste, | Jitendra K.Pandey , A. Ahmed, R.P.Singh | <i>Journal of Applied Polymer Science</i> , 90, 1009, (2003) |
| 7. Biodegradation of poly (ε-caprolactone)/Starch blends and composites in composting and culture environments: effect of compatibilization on inherent biodegradability of host polymer, | R.P.Singh, Jitendra K.Pandey , D. Rutot, Ph. Degée, Ph. Dubois | <i>Carbohydrate Research</i> ,338, 1759, (2003). |
| 8. On the durability of LDPE nano-composites, | Jitendra K.Pandey , R.P.Singh | <i>e-polymers</i> , 051, (2004). |

9. Green nanocomposites form renewable resources : effect of plasticizer on the structure and material properties of clay filled starch, *Jitendra K.Pandey* and R.P.Singh *Starch/Starke*, 57, 8, (2005).
10. An overview on the degradability of nanocomposites, *Jitendra K.Pandey*, P.A.Kumar, K.R.Reddy and R.P.Singh *Polymer Degradation and Stability*, 88,234, (2005).
11. Recent Advances in biodegradable nanocomposites, *Jitendra K.Pandey*, A.P. Kumar, M.Misra, Amar K. Mohanty, L. T. Drzal and Raj Pal Singh *Journal of Nanoscience and Nanotechnology*, 5, 497, (2005).
12. Photo-/Bio-degradability of Agro Waste and Ethylene–Propylene Copolymers Composites Under Abiotic and Biotic Environments A.P.Kumar, *Jitendra K.Pandey*, B..Kumar, R.P.Singh, *Journal of Polymer and Environment*, 14, 203, (2006).
13. Cellulose Nanowhiskers from grass of Korea, *Jitendra K.Pandey*, J.W.Lee, W.S Chu, C.S.Kim,C.S. Lee, S.H.Ahn *Macromolecular Research*, 16,396 (2008).
14. Bionanocomposites of Grass, *Jitendra K.Pandey* ,C.S.Kim, W.S Chu, C.S. Lee, S.H.Ahn *Advance Material Research*, 47-50, 435 (2008).
15. Nanostructure evaluation of cellulose in Grass, *Jitendra K.Pandey* ,C.S.Kim, W.S Chu, C.S. Lee, S.H.Ahn *e-polymers*, 102, 1618 (2009).
16. Surface Modification of Polyethylene (PE) by deposition of titanium dioxide (TiO₂) nano- particles to enhance the photo-catalytic activities, *Jitendra K.Pandey*, M.H.Kim, D.M.Chun,C.S.Lee, S.H.Ahn, *Surface Review Letters*, 16, 259 (2009).
17. Bio-nano reinforcement of environmentally degradable polymer matrix by cellulose whiskers from grass, *Jitendra K.Pandey* ,C.S.Kim, W.S Chu, C.S. Lee, S.H.Ahn *Composites Part B: Engineering*, 40, 676 (2009).
18. Mechanical properties and sound insulation effect of ABS/carbon black composites, J.W. Lee, J.C.Lee, *Jitendra K. Pandey*, S.H.Ahn, Y.J.Kang, *Journal of composite Material*, 44, 1701 (2010).

19. Preparation and properties of bio-nanoreinforced composites from biodegradable polymer matrix and cellulose whiskers, **Jitendra K.Pandey**, C.S.Lee, S.H.Ahn *Journal of Applied Polymer Science*, 115, 2493 (2010).
20. Recent advances in the application of natural fiber based composites, **Jitendra.K.Pandey**, S.H.Ahn, C.S.Lee, A.K.Mohanty, M.Mishra, *Macromolecular Materials and Engineering*, 295, 975 (2010).
21. Self-Healing potential of green composites from crystalline cellulose, **Jitendra K.Pandey**, H.Takagi, *Inte.Journal of Modern Physics B*, 25, 4216 (2011)
22. Preparation and structural evaluation of nano reinforced composites from cellulose whiskers of grass and biodegradable polymer matrix, **Jitendra K.Pandey**, C.S.Kim, W.S.Chu, W.Y.Choi, S.H.Ahn *Journal of composite Material*, 46, 653 (2012)
23. Re-orientation of cellulose nanowhiskers in hydrogels under tensile loading Anayancy Osorio-Madrado, Michaela Eder, Markus Rueggeber, Jitendra K. Pandey, Matt Harrington, Yoshiharu Nishiyama, Jean-Luc Putaux, Cyrille Rocha, Ingo Burgert *Biomacromolecules*, 13, 850 (2012)
24. Preparation and properties of crystalline cellulose-modified layered silicate and compatibilized polypropylene composites, **Jitendra K.Pandey**, Sena Lee, Hyun-Joong Kim, Hitoshi Takagi, C.S.Lee, S.H.Ahn, *Journal of Applied Polymer Science*, 125, 651 (2012)
25. An overview on the cellulose based conducting composites **Jitendra K.Pandey**, H.Takagi, D.R.Saini, A.N.Nakagaito, S.H.Ahn *Composites Part B*, 43, 2822 (2012)
26. Cellulose nanofibers from waste news papers **Jitendra K.Pandey**, M.S.A.Subttman, H.Takagi, *J. Biobased Mater. Bioenergy* 6, 115 (2012)
27. A Review on Fabrication and processing of cellulose nanofiber based composites, **Jitendra K.Pandey**, A.N.Antonio, H.Takagi, *Polymer Science and Engineering*, 1, 18-24, (2012)
28. A Special Issue on Manufacturing and Applications of Bio-Based Composites **Jitendra K.Pandey**, S.H.Ahn, *Journal of Biobased Materials and Bioenergy* 7 (1), 1-2 (2013)

29. Soundproofing Properties of Polypropylene/Clay/Carbon Nanotube Nanocomposites , *Kim, M. S., Yan, J., Kang, K.M., Joo, K.H., Jitendra K. Pandey, Kang, Y.J. and Ahn, S. H.* *Journal of Applied Polymer Science*, 130, 1, 504–509, (2013)
30. Synergistic Effects of Carbon Nanotubes and Exfoliated Graphite Nanoplatelets for Electromagnetic Interference Shielding and Soundproofing *Kim, M. S., Yan, J., Kang, K.M., Joo, K.H., Jitendra K. Pandey, Kang, Y.J. and Ahn, S. H.* *Journal of Applied Polymer Science* ,130,6, 3947-3951 (2013)
31. Fabrication of Bio-composite Scaffold for Implantable Drug Delivery System (DDS) *Chu, W. S., Jitendra K.Pandey, and Ahn, S. H* *Journal of Biobased Materials and Bioenergy*
32. Cellulose nanofiber assisted deposition of titanium dioxide on fluorine-doped tin oxide glass *Jitendra K. Pandey, Jung-Oh Choi, Hyun-Taek Lee, Chung-Soo Kim, Hyun-Joong Kim, Sera Jeon and Sung-Hoon Ahn* *RSC Adv*, 4, 987 (2014)
33. Bio-inspired deposition of silver nano-particles (AgNPs) on silicon substrate. *Jitendra K. Pandey, Hyun Taek Lee, Chung-Soo Kim, Sung-Hoon Ahn,* *Materials Letters* 116, 175–177 (2014)
34. Bio-Based Technologies in Composites and Energy Applications. *Jitendra K.Pandey, Sung-Hoon Ahn* *Journal of Biobased Materials and Bioenergy*, 8, No. 2 115-279 (2014)
35. Fabrication of Bio-composite Scaffold for Implantable Drug Delivery System (DDS) *Chu, W.S., Pandey, J.K., and Ahn, S.H* *Chu, W.S., Pandey, J.K., and Ahn, S.H*, 2, 230-239 (2014)
36. Application of electrochemical impedance spectroscopy in bio-fuel cell characterization: A review *Diwakar Kashyap, Prabhat K. Dwivedi, Jitendra K. Pandey, Young Ho Kim, Gyu Man Kim, Ashutosh Sharma, Sanket Goel* *International Journal of Hydrogen Energy* 39, 35, 20159-20170 (2015)
37. Fabrication of Vertically Aligned Copper Nanotubes as a Novel Electrode for Enzymatic Biofuel Cells *Diwakar Kashyap, Raghvendra Singh Yadav, Smita Gohil, Venkateswaran, P.S., Jitendra K. Pandey, Gyu Man Kim, Young Ho Kim, Prabhat Dwivedi, Ashutosh Sharma, Pushan Ayyub, Sanket Goel* *Electrochimica Acta*.167, 113-118, (2015)

38. Hydrogen: A Sustainable Fuel for Future of the Transport Sector *Sonal Singh, Shikha Jain, Venkateswaran S Pedinti, Avانش K Tiwari, MR Nouni, Jitendra K Pandey and Sanket Goel* Renewable and Sustainable Energy Reviews, 8, 623 (2015)

B. Patents

1. Jitendra K.Pandey, W.S.Chu, C.S.Kim, S.H.Ahn Micro / Nano Crystalline Cellulose Fiber from Grass of Korea for Fiber-reinforced Composite materials, 10-2007-0112407, 2007.11.06 , (Korean Patent) (2007).
2. J.S.Kim, Jitendra K.Pandey, W.S.Chu, S.H.Ahn, Fuel cell end plate from nano reinforced Epoxy composites, (10-2008-0053371, 2008.06.05 Korean Patent,) (2008).
3. Mr. Diwakar Kashyap, Mr. Venkateswaran PS, Dr. Jitendra K. Pandey and Dr. Sanket Goel, Fabrication of Vertically aligned Copper Nanotubes (CuNTs) as a Novel Electrode for Enzymatic Biofuel Cells (EBFCs) 1231/DEL/2015 (Indian Patent)(2015)

C. Book Chapter

1. Deepa Roy, Jitendra K. Pandey, M. Das, S.H.Ahn, M.Mishra, **Title:** Nanocomposites of Starch for Packaging Applications Polymer Nanocomposites for Packaging Application , Ed. H.S. Nalwa , A.K. Mohanty, American Scientific Publishers, Valencia, California 91381-0751, USA. (2009)
2. Jitendra K. Pandey, S.Alriqui, D.R.Saini, S.H. Ahn, M.Mishra. **Title:** Nanocomposites of Nylons for Packaging Applications, Polymer Nanocomposites for Packaging Application , Ed. H.S. Nalwa , A.K. Mohanty, American Scientific Publishers, Valencia, California 91381-0751, USA, (2009).
3. Jitendra K.Pandey, J.W. Lee, W.S.Chu, D.R.Saini, A.K.Mohanty, M.Mishra, T.Lan, **Title:** Nanocomposites of Polyolefins for Packaging Applications, Polymer Nanocomposites for Packaging Application , Ed. H.S. Nalwa , A.K. Mohanty American Scientific Publishers, Valencia, California 91381-0751, USA, (2009).
4. Burgert, M. Eder, M. Ermeydan, A. Martins, A. Osorio, J. Pandey, A. Reinecke, K. Razhgandi, M. Rüggeberg, F. Saxe, N. Schreiber, S. Weichold, G. Wienskol, S. Zabler, B. Zhang, **Title:** Biological and Bioinspired Materials, Plant Biomechanics and Biomimetics, Biomaterialien, 63 (2010)
6. Jitendra.K.Pandey, D.R.Saini, S.H.Ahn, **Title:** Degradation of cellulose based polymer composites, Cellulose fibers Bio and Nano Polymer Composites, Eds. S.Kalia, B.S.Kaith, I.Kaur. *Springer Verlag Inc.* (2011)

D. Book editor:

1. Handbook of Polymernanocomposites. Processing, Performance and Application
Volume A: Layered Silicates:
Editors: Pandey, J.K., Reddy, K.R., Mohanty, A.K., Misra, M. (Eds.) ISBN 978-3-642-38649)
Publisher: Springer Verlag GmbH. (<http://www.springer.com/gp/book/9783642386480>)
2. Handbook of Polymer Nanocomposites. Processing, Performance and Application
Volume B: Carbon nanotubes based polymer composites
Editors: Kamal K. Kar, Jitendra K. Pandey, Sravendra K. Rana (Eds.) ISBN 978-3-642-45229)
**Publisher: Springer Verlag GmbH
(<http://www.springer.com/gp/book/9783642452284>)**
3. Handbook of Polymer Nanocomposites. Processing, Performance and Application
Volume C: Polymer Nanocomposites of Cellulose Nanoparticles.
Editors: Pandey, J.K., Takagi, H., Nakagaito, A.N., Kim, H.-J. (Eds.) ISBN 978-3-642-45232-1
Publisher: Springer Verlag GmbH (<http://www.springer.com/gp/book/9783642452314>)
4. Handbook of Polymer Nanocomposites. Processing, Performance and Application
Volume C: Metal Matrix.
Editors: Pandey, J.K., D.M.Chun, S.H.Ahn(Eds.) ISBN 978-3-642-45232-1
Publisher: Springer Verlag GmbH (<http://www.springer.com/gp/book/9783642452314>)

E. Conferences:

1. Kartik Arunachalam, Venkateswaran, P.S., Jitendra K. Pandey and Sanket Goel, Examination of Smart Grid Architectures, Technology Demonstrations, Demand Response and their relevance in the Indian Context, India Smart Grid Week, India Smart Grid Forum, Bangalore-India. 2015.
2. Kartik Arunachalam, Venkateswaran, P.S., Jitendra K. Pandey and Sanket Goel, India's Energy Security: Challenges, Policies and Opportunities, Bridging Development Divide for Inclusive Growth through Science, Technology and Innovation-International Workshop, Lucknow-India. 2015
3. Jitendra K.Pandey, "Opportunities and challenges in Natural Nanoparticels" NANOCON14, 3rd International Conference on Nanotechnology, Bharti VIdya Peeth, 14-15 Oct. 2014 (**Key Note speaker**)
4. Jitendra K. Pandey, Hitoshi Takagi, and Hiroaki Genta ,Bio-inspired reinforcement of natural fiber matrix by surface modified nano-cellulose, International Symposium on Green Manufacturing and Applications, ISGMA 2012, Jeju, Korea, Aug. 27-29, 2012. (**Invited Speaker**).
5. Jitendra K.Pandey, Hitoshi Takagi, Sef-Healing potential of green composites from crystalline cellulose, Advanced Materials Development and Performance, AMDP 2011, Tokushima, Japan, July 15-18, 2011 (**Invited Speaker**).
6. Jitendra K.Pandey, Hitoshi Takagi, Effect of surface polarity of cellulose nano-fibers on the mechanical performance of starch based composites, 18th International Conference on Composite Materials, ICCM 18, Jeju, Korea, Aug. 21-26, 2011. (**Invited Speaker**).

Jitendra Kumar Pandey

7. Michaela Eder, Anayancy Osorio-Madrado, Markus Ruedgeberg, Jitendra Kumar Pandey, Matt Harrington, Yoshiharu Nishiyam, Jean-Luc Putaux, Cyrille Rochas, Ingo Burgert, Creating an anisotropic cellulose nanowhisker reinforced agarose hydrogel Annual Meeting of the International Academy of Wood Science, Novel Materials from Wood or Cellulose , Stockholm, Sweden, Aug.31 to Sept. 2, 2011. **(Invited Speaker)**.
8. Jitendra K. Pandey, Fabrication of cellulose nanoparticle based composites with hydrophobic polymers, International Symposium on Green Manufacturing and Applications, ISGMA 2011, Seoul, Korea, Oct 6-7, 2011. **(Invited Speaker)**.
9. Kiyoshi Nakano, Antonio Norio Nakagaito, Hitoshi Takagi and Jitendra Kumar Pandey : Alternative process of cellulose nanofiber extraction from agricultural waste, Proceedings of the 8th Korea-Japan Joint Symposium on Composite Materials, pp.55--56, Changwon, Korea, Nov. 2011
10. Hikaru Kondo, Antonio Norio Nakagaito, Hitoshi Takagi and Jitendra Kumar Pandey : Aerogels obtained by freeze drying aqueous suspensions of microfibrillated cellulose, Proceedings of the 8th Korea-Japan Joint Symposium on Composite Materials, pp.51--52, Changwon, Korea, Nov. 2011
11. Antonio Norio Nakagaito, Hitoshi Takagi and Jitendra Kumar Pandey : Composites based on bio-nanofibers, Proceedings of the 8th Korea-Japan Joint Symposium on Composite Materials, pp.7--8, Changwon, Korea, Nov. 2011
12. Hiroo Matsumoto, Hitoshi Takagi, Display Sampl, Jitendra Kumar Pandey and Masaya Omura : Mechanical performance of bio-nano composites based on cellulose nanofiber and polyvinyl alcohol, Proceedings the 8th Korea-Japan Joint Symposium on Composite Materials, pp.18--19, Changwon, Korea, Nov. 2011.
13. Hitoshi Takagi, Antonio Norio Nakagaito, Jitendra Kumar Pandey and Byung-Sun Kim : Eco-friendly functional green composites, Proceedings of International Symposium on Sustainable Composites, pp.1--6, Shanghai, China Oct. 2011.
14. Jitendra K.Pandey, A.Bertin, H. Schlaad, I.Burgert, Mimicking cellulose-matrix interactions in plant cell wall to create technical glass fiber reinforced Polymer Composites, Material Science and Engineering, MSE-2010, Darmstad, Germany, Aug. 24-25, 2010 (Invited Speaker).
15. Jitendra K. Pandey , Caroline S. Lee, and Sung-Hoon Ahn, On the competition between layered silicates and cellulose nano fibres during the reinforcement of biodegradable polymer matrix, 17th International Conference on Composite Materials, ICCM-17, Edinburgh, UK, July 27-31, 2009.
16. J.Yan, Jitendra K. Pandey ,J.C.vLee., C. W., Kang, D. W., Kang,Y.J. and Ahn, S. H., 2009, "Soundproof effect of nanoclay reinforced polypropylene composites. 17th International Conference on Composite Materials, ICCM-17, Edinburgh, UK, July 27-31, 2009.
17. Sung-Hoon Ahn., Jitendra K. Pandey., J Yan , Lee, J. C., Lee, C. W., Kang, D. W., and Chu, W. S., 2009, "Fabrication and Characterization of Green Nano Composites," U.C. Berkeley, USA (Prof. Dornfeld Group), August 5.
18. Jitendra K Pandey, Chu, W. S., Kim, C. S., Caroline S. Lee, and Sung-Hoon Ahn. Bio nano composites of grass,International Conference on Multi-functional Materials and Structures, ICMMS-2008, Hong Kong, China. July 28-31. 2008 (Invited Speaker).
19. J.S.Kim, J.K.Pandey, N.I. Kim, S.H. Ahn,Preparation, structure, and property evaluation of nanoclay-reinforced glass-fiber/epoxy composite materials, 2nd International Conference on Advanced Nano Materials (ANM), Aveiro, Portugal, June 22-25, 2008,

20. Ahn, S. H., Chu, W. S., Jeong, S. Y., Jitendra .K. Pandey, Development of Hybrid Micro-fabrication System and Application to Drug Delivery System Stanford University, California, USA, July 20-21, 2007.
21. Jitendra K.Pandey, Won-Shik Chu, Caroline S. Lee and Sung-Hoon Ahn, Preparation Characterization and Performance Evaluation of Nanocomposites from Natural Fiber Reinforced Biodegradable Polymer Matrix for Automotive Applications, Bio Environmental Polymer Society, BEPS, Washington, USA, Oct.17-20, 2007.
22. Jitendra K. Pandey, Won-Shik. Chu, Chung-Soo Kim, Caroline S. Lee, Sung-Hoon Ahn, Influence of different modifications on the morphology of bio-nanocomposites from starch, International Confrence on Future Trends in Composite Materials and Processing, Indian Institute of Technology, IIT, Kanpur, India, Dec. 12-14, 2007.
23. Jitendra K.Pandey, A.Asalam, K.Vijayamohan, R.P.Singh, Immobilized nano-clusters in polypropylene matrix: degradation behavior in different environments, Seventh National Conference of the Society for Polymer Science, India and International Seminar on Frontiers for Polymer Science and Engineering, Macro 2002, IIT Kharagpur, India Dec.9-11, 2002. **Obtained first prize as Young Student Award.**
24. Jitendra K.Pandey, R.P.Singh, Environmental degradability of composites prepared from Agrowaste and isotactic polypropylene, Eco-friendly Biodegradable Polymers organized by Biodegradable Polymer Society of India at Cuttack, Orissa, Dec.13-14, 2002, India.
25. Jitendra K.Pandey, S.M.Desai, A.Ahmed, M.I.Khan, R.P.Singh, Biodegradation mechanism in polyolefin, International Symposium on Biodegradable Polymers and Packaging Materials, IICT, Hyderabad, India, Nov. 17-18,2001.

E. Funded Projects

1. **India-Slovenia** Proposal on Immobilization of Enzymes on Various Nanostructures for the fabrication of Biosensors, by the International Division, DST, PI: Jitendra K.Pandey, Co-Pi: Dr. Sanket Goel, Dr. Sanjay Kumar and Dr. Željko Knez (Univ of Maribor),

Total Cost : 30000 USD

2. **SEED Money** 3D printer is successfully being implemented.