

**Vijay K Rangari, Ph.D., Professor and Head, Materials Science and Engineering
Publications and Presentations (2008-2017)**

Book Chapters:

1. **Vijaya Kumar Rangari** “Nanocomposite Materials, Theory and Applications. Chapter 4 on Polymer nanocomposite materials for various structural applications, **InTech, Open Access Publisher ISBN 978-953-307-165-7**, Book edited by: Dr. Boreddy Reddy (>10,000 downloads)
2. Developments in Nanocomposites (**ISBN: 978-981-08-3711-2**), **Vijaya Kumar Rangari**, chapter on Alignment of acicular nanoparticles in Nylon-6 polymer fibres through extrusion process and its thermal and mechanical properties, Editor; Kama K Kar, **Research Publishing Services Innovative Partners for Publishing Solutions, SINGAPORE: #10-589, Blk 236, Tampines St. 21, Singapore 520236**
3. Yuanxin Zhou, **Vijaya Rangari**, Shaik Jeelani, Hassan Mahfuz, “Composite Materials Research Progress. An Experimental and Analytical Study of Unidirectional Carbon Fiber Reinforced Epoxy Modified By SiC Nanoparticle,” Pub. Date: 2008 1st Quarter, ISBN: 1-60021-994-2
4. Nogueira, B.R.; Chinellato, A.; Ortiz, A.V.; Parveen, A.; **Rangari, V. K.**; Moura, E. A. B. **Thermal and morphological behavior of EVOH/piassava fiber composites.** In: Jiann-Yang Hwang, Sergio .N. Monteiro, Chen-Guang Bai, John Carpenter, Mingdong Cai, Donato Firrao, Byoung-Gon Kim. (Org.). Characterization of Minerals, Metals, and Materials. Hoboken, NJ: John Wiley and Sons, Inc, v. 1, p. 373-380, 2012, ISBN 9781118371305.
5. Sartori, M.N.; Oliveira, R.R.; Valenzuela Díaz, F.R.; Angel V. Ortiz; **Rangari, V. K.**; Moura, E. A. B. **Preparation and Characterization of PBT/Clay Nanocomposite.** In: Shijie Wang, John E. Dutrizac, Michael L. Free, James Y. Hwang, Daniel Kim. (Org.). T.T. Chen Honorary Symposium on Hydrometallurgy, Electrometallurgy and Materials Characterization. 1ed., NJ: John Wiley & Sons, Inc, 2012, v. 1, p. 731-739. ISBN: 978-1-118-29123-8
6. Vijay Rangari, and Sanchita Dey “Synthesis fabrication and characterization of Ag/CNTs polymer nanocomposites as chapter 5 of Synthesis techniques for polymer nanocomposites, Wiley-VCH, ISBN-798-3-527-33455-1, 2015

JOURNAL PUBLICATIONS:

Published:

1. Diane Render, Temesgen Samuel, Howard King, Madan Vig, Shaik Jeelani, Ramapuram Jayachandra Babu, and Vijaya Rangari “Biomaterial-Derived Calcium Carbonate Nanoparticles for Enteric Drug Delivery” **Journal of Nanomaterials** 2016, Article ID 3170248, 8 pages, <http://dx.doi.org/10.1155/2016/3170248>
2. Muhammad M. Rahman, Anil N. Netravali, Boniface J. Tiimob, Vitus Apalangya, Vijaya K. Rangari, Bio-inspired ‘green’ nanocomposite using hydroxyapatite synthesized from eggshell waste and soy protein, **Journal of Applied Polymer Science-2016(in press)**
3. Muhammad A. Imam, M.G. Gomes, Eesperidiana.A.B. Moura, Shaik Jeelani and **Vijay.K.Rangari**, “Electron-beam irradiation effect on thermal and mechanical properties of Nylon-6 nanocomposite fibers infused with Diamond and Diamond coated Carbon Nano Tubes”, *International Journal of Nanoscience*, **15, 1-2, 1650004-12,2016.**
4. Md. Reza-E-Rabby, Shaik Jeelani, Vijaya K. Rangari, “Structural Analysis of Polyhedral Oligomeric Silsesquioxane (POSS) coated SiC Nanoparticles and Their Applications in Thermoset Polymers”, **J. Nanomaterials-2015.**
5. Boniface Jabik Tiimob, Shaik Jeelani, Vijaya Kumar Rangari, Eggshell reinforced biocomposite-an advanced ‘green’ alternative structural material, **Journal of Applied Polymer Science- 2016, 133, 43124.**
6. B. Tiimob, V. Apalangya, T. Samuel, S. Jeelani, **V. Rangari**, Synthesis, characterization and in vitro cytotoxicity assessment of eggshell-derived β -CaSiO₃ nano biomaterial, *British Journal of Applied Science and Technology*, **8(2): 180-193, 2015, Article no.BJAST.2015.196**
7. Md. Reza-E-Rabby, Shaik Jeelani, **Vijaya K. Rangari** Microwave processing of SiC nanoparticles infused polymer composites: Comparison of thermal and mechanical properties, , **J. Applied Polymer Science** 132, 12, 2015
8. Pawar, Kasturi; Mulabagal, Vanisree; Smith, Forrest; Kolli, Chandra; **Rangari, Vijaya**; Babu, R. Jayachandra, Stability-Indicating HPLC Assay for Lysine-Proline-Valine (KPV) in Topical Formulations, **Biomedical Chromatography**, **29, 716-721, 2015.**
9. Jitender Madan, Sushma R. Gundala, Bharat Baruah, Mulpuri Nagaraju, Clayton Yates, Timothy Turner, **Vijay Rangari**, Donald Hamelberg, Michelle D. Reid, and Ritu Aneja, Cyclodextrin Complexes of Reduced Bromonoscaphine in Guar Gum Microspheres Enhance Colonic Drug Delivery, **Mol. Pharmaceutics** **2014, 11, 4339–4349**
10. M. M. Rahman, A. N. Netravali, B. J. Tiimob, and **V. K. Rangari**, Bioderived “Green” Composite from Soy Protein and Eggshell Nanopowder, **ACS Sustainable Chem. Eng.**, Articles ASAP (As Soon As Publishable) Publication Date (Web): September 2, 2014 (Research Article) DOI: 10.1021/sc5003193
11. Boniface J. Tiimob, Vijaya K. Rangari, Shaik Jeelani, Effect of Reinforcement of Sustainable β -CaSiO₃ Nanoparticles in Bio-based Epoxy Resin System. **J. Appl.Polym. Sci.** **2014, 131, 40867. DOI: 10.1002/APP.40867**
12. Tarig A. Hassan, **Vijaya K. Rangari** and Shaik Jeelani, “Value added Bio-polymer nanocomposites from waste eggshell based CaCO₃ nanoparticles as fillers” **ACS Sustainable Chemistry & Engineering**, 2014, 2 (4), 706–717 .

13. Vitus Apalangya, **Vijaya Rangari**, Boniface Tiimob, Shaik Jeelani and Temesgen Samuel, "Development of antimicrobial water filtration hybrid material from bio source calcium carbonate and silver nanoparticles" **Applied surface science**, 295, 108-114, 2014,
14. Myisha Roberson, **Vijaya Rangari**, Shaik Jeelani, Temesgen Samuel and Clayton Yates "Synthesis and Characterization of Silver, Zinc oxide and Hybrid silver/zinc oxide nanoparticles for antimicrobial applications" **Nanolif**, Published: 20 February 2014. 10.1142/S1793984414400030.
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16. **Vijaya K. Rangari** Mohammed Yousuf and Shaik Jeelani, Synthesis and characterization of SiC/Si₃N₄ hybrid nanoparticles and their applications in polymer single fibers, **J.Composites**, 2013, Article ID 462914, 11 pages, **10.1155/2013/462914**.
17. A. Mazumder, J. Davidson, **V. Rangari**, and M. Curry, "Synthesis, Characterization, and Applications of Dendrimer-encapsulated Zero-valent Ni Nanoparticles as Antimicrobial Agents" **ISRN-Nanomaterials (In press) 2013**
18. Tarig. A. Hassan, **Vijaya K. Rangari**, Fedric Baker and Shaik Jeelani, Synthesis of hybrid SiC/SiO₂ Nanoparticles and their polymer nanocomposites, **International Journal of Nanoscience**, Vol 12, No 2, **1350008-1350015, 2013**
19. **Vijaya K. Rangari**, Ghouse M Mohammad, Boyoglu, Seyhan, Shaik Jeelani, Synthesis of hybrid ZnO/CNTs nanoparticles and their reinforcement in Nylon-6 polymer fibers, **Journal of Applied Polymer Science**, 129, 1, **121–129, 2013**
20. R. Samsur, **V. K. Rangari**, S. Jeelani, L. Zhang and Z.Y. Cheng: Fabrication of CNTs grown woven carbon fiber/epoxy composites and their electrical and mechanical properties, **J.Appl Phys.** 113, 214903 ,2013
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22. Diane Render, Khalda Fadlalla, **Vijaya Rangari**, Temesgen Samuel and Shaik Jeelani, Bio-based Calcium Carbonate (CaCO₃) Nanoparticles for Drug Delivery Applications, **Int. J. Biomedical Nanoscience and Nanotechnology**, 3, 3, 2014.
23. Brunson Dominique, Peter N. Gichuhi, **Vijay Rangari**, and Adelia C. Bovell-Benjamin, "Sugar Profile, Mineral Content, and Rheological and Thermal Properties of an Isomerized Sweet Potato Starch Syrup," **International Journal of Food Science**, vol. 2013, Article ID 243412, 8 pages, 2013. doi:10.1155/2013/243412
24. Tarig A. Hassan, **Vijay K. Rangari**, Rohit K. Rana and Shaik Jeelani, Sonochemical effect on size reduction of CaCO₃ nanoparticles derived from waste Eggshells, **Ultrasonics Sonochemistry**, 20, 5, **1308-1315, 2013**
25. Tarig hasan, **Vijaya K. Rangari** and Shaik. Jeelani, Mechanical and thermal properties of bio-based CaCO₃/Soybean based hybrid unsaturated polyester

- nanocomposites, *Journal of Applied Polymer Science* 130,1442-1452, 2013 (**Cover page article**).
26. Nydeia W. Bolden, **Vijaya K. Rangari** and Shaik Jeelani Seyhan Boyoglu Shree R. Singh' Synthesis and evaluation of magnetic nanoparticles for biomedical applications' *Journal of nanoparticles* doi: 10.1002/app.39227, 2013
 27. Tarig A. Hassan, **Vijay K. Rangari**, Shaik Jeelani, Sonochemical Synthesis and Characterization of Bio-Based Hydroxyapatite nanoparticles, *Int. J. Nano and Biomaterials*, (In press), 2013
 28. **Vijaya K Rangari**, Rahman Samsur, and Shaik Jeelani, Mechanical, thermal, and conducting properties of CNTs / Bio-degradable Polymer Thin films, *Journal of Applied Polymer Science*, 129: 1249–1255, 2013
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 35. **Vijaya K. Rangari**, Mohammad Y.Shaik, Ghouse M. Mohammad, Shaik Jeelani, Reinforcement of Si₃N₄ nanoparticles in Polypropylene single fibers through melt extrusion process and their properties ***Journal of Applied Polymer Science*, 121, 3,1512–1520, 2011.**
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38. **Vijaya K. Rangari**, Ghouse M. Mohammad, Shaik Jeelani, Angel Hundley, Komal Vig, Shree Ram Singh and Shreekumar Pillai, Synthesis of Ag/CNTs hybrid nanoparticles and fabrication of their Nylon-6 polymer nanocomposite fibers for antimicrobial applications, **Nanotechnology**, **21**, 095102, 2010
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41. **Vijaya K. Rangri**, Mohammad S. Bhuyan, Shaik Jeelani, Microwave Processing and Charactering of EPON 862/CNTs Nanocomposites, **Mat Sci & Eng –B**, **168**, 117-121,2010.
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53. **Vijaya K Rangari**, Tarig A. Hassan, Clifton.Mayo and Shaik Jeelani Titanium carbide infused phenolic balsa foam nanocomposite, **International Journal of Nanoscience**, **7**, 235-243, 2008.

Conference Presentations: National and International

1. Nano-engineered eggshell toughened polylactic acid/aliphatic-aromatic copolyester flexible polymer blend, Boniface Tiimob, Vijaya Rangari, and Shaik Jeelani, ACS 251th meeting at San Diego, CA, March 14th-18th. 2016
2. Luiz Komatsu, Washington Oliani, Ademar Lugao, Duclerc Parra, and Vijaya Rangari, Degradation Study of High Melt Strength Polypropylene/Clay Nanocomposites in Environmental and Accelerated Conditions, Nuclear and Energy Research Institute, (Oral), TMS-2016, Feb 14-18, 145th Annual Meeting and Exhibition at Nashville TN,
3. Duclerc Parra, Luiza Campos, Letícia Boaro, Henrique Ferreira, Ademar Lugão, Vijaya Rangari, Effect of MMT Nanoparticle Clay on Flexural Properties of Polymer Based BisGMA/TEGDMA Resin, (Oral), TMS-2016, Feb 14-18, 145th Annual Meeting and Exhibition at Nashville TN,
4. Vijay Rangari, Vitus Apalangya, Shaik Jeelani; Tiimob Boniface, Samuel Temesgen, Fabrication of Polymer/Bio-based Hydroxyapatite Composite Electrospun Fibers for Scaffold Applications, (Oral) TMS-2016, Feb 14-18, 145th Annual Meeting and Exhibition at Nashville TN,
5. Douglas Paiva, Rene Oliveira, Wilson Maia, Maria Auad, Vijaya Rangari. Esperidiana Moura, Comparative Study of the Effects of Cellulose Nanowhiskers and Microcrystalline Cellulose Addition as Reinforcement in Flexible Films Based on Biopolymer Blends, (Oral) TMS-2016, Feb 14-18, 145th Annual Meeting and Exhibition at Nashville TN,
6. Angélica Zafalon, Vinicius dos Santos, Duclerc Parra, Vijaya Rangari, Ademar Lugão, Synthesis of Polymeric Hydrogels Containing Nano-silver and Antibiotic for Wound Healing Applications: (Poster), TMS-2016, Feb 14-18, 145th Annual Meeting and Exhibition at Nashville TN,
7. Washington Oliani, Luiz Gustavo Komatsu, Duclerc Parra, Ademar Lugao, Vijaya Rangari, Natural Aging Effects in HMS-Polypropylene Synthesized by Gamma Radiation in Acetylene Atmosphere, (Poster), TMS-2016, Feb 14-18, 145th Annual Meeting and Exhibition at Nashville TN,
8. Isabelle Berenguer, Washington Oliani, Luis Gustavo Komatsu, Vinicius dos Santos, Duclerc Parra, Ademar Lugao, Vijaya Rangari, Fabrication of Gamma-irradiated Polypropylene and AgNPs Nanocomposite Films and their Antimicrobial Activity, (Poster), TMS-2016, Feb 14-18, 145th Annual Meeting and Exhibition at Nashville TN,

9. Jorge Sales, Francisco R. Valenzuela-Diaz, Vijaya K. Rangari, Esperidiana A. B. Moura, Properties of Acrylonitrile Butadiene Styrene(ABS), (Poster), TMS-2016, Feb 14-18, 145th Annual Meeting and Exhibition at Nashville TN
10. Vijaya Rangari, Shaik Jeelani, Design, synthesis of nanoparticles and fabrication of polymer nanocomposites, PACIFICHEM, 2015, Dec 15-20, Honolulu, Hawaii.(Invited)
11. Synthesis of Graphenenanoplates from organoclay templates and their reinforcement in thermoset polymer, Vijaya K Rangari, Emanuel Akugre, and Shaik Jeelani, ICCM-20 July 19-24, 2015, Copenhagen, Denmark.
12. Investigation on Mechanical and Thermal Behaviours of Copolyester/pla blend reinforced with TiO₂ nanoparticle, Roberta Lima, Andressa Silva, Vijaya Rangari, Shaik Jeelani, Esperidiana Moura, 2015 TMS Annual Meeting & Exhibition, March 15-19 2015, Walt Disney world Orelando, Fl, USA
13. Development of functional nanomaterials from waste avian eggshells. Boniface J. Tiimob, Vijaya K. Rangari, and Shaik Jeelani. Emerging Researchers National Conference, Washington DC, 19-21st February, 2015. (Oral).
14. Aliphatic-aromatic copolyester/PLA biodegradable binary polymer blends for potential packaging applications. Boniface J. Tiimob, Vijaya K. Rangari and Shaik Jeelani, Science and technology open house, Montgomery AL, 30-31th January, 2015. (Poster).
15. Influence of eggshell nanopowder on the tomato plant absorption of calcium toward mitigating blossom end rot problem. Lashachiah Parks and Desmond G. Mortley, Boniface J. Tiimob, Vijaya K. Rangari, Shaik Jeelani, George Washington Carver Lecture Series, Tuskegee AL, 30th October, 2014. (Poster).
16. Effect of eggshell nanopowder on the thermal and mechanical properties of eco-friendly polymer matrix. Boniface J. Tiimob, Vijaya K. Rangari and Shaik Jeelani. Nanobio Summit, The University of Alabama, Tuscaloosa AL, 23-24th October, 2014. (Poster).
17. Effects of the incorporation of clay on properties of the biodegradable copolyester/PLA flexible film. Andressa Alves da Silva, Valquiria A. Silva, Boniface Tiimob, Vijaya K. Rangari, Shaik Jeelani, Francisco R. Valenzuela-Diaz, Esperidiana A. B. Moura, Technical contribution to the 69th ABM International Annual Congress, Sao Paulo Brazil, 21-25th July, 2014. (Paper & poster).
18. Studies on PBT/Brazilian clay nanocomposites by melt-intercalation process - synthesis and characterization. Andressa A. Silva, Roberta A. Lima, Boniface Tiimob, Shaik Jeelani, Vijaya K. Rangari, Francisco R. V. Díaz, Esperidiana A. B. Moura. Pan American Materials Conference, Sao Paulo Brazil 21-25th July, 2014. (Oral).
19. Graphene/Ag Hybrid Nanoparticles for Multifunctional Composite Applications with Graphene Layered Carbon Fiber, Chinedu Okoro 1, Vijaya Rangari 1, Shaik Jeelani, MRS-sprin April 21-25th 2014, San Francisco, California
20. Effects of green calcium carbonate addition on mechanical and morphological properties of flexible films based on biodegradable polymer” Alexandra A. R. Silva; Valquiria A. Silva; Vijaya K. Rangari, Shaik Jeelani, Rene R. Oliveira, Francisco R. Valenzuela-Diaz, Esperidiana A. B. Moura TMS 2014 143rd

ANNUAL MEETING & EXHIBITION February 16-20, San Diego Convention Center, San Diego, California

21. PBT/BRAZILIAN Clay Nanocomposites Prepared by melt intercalation: Effect of Organophilic clay content and Ionizing radiation Treatment". Mariana N. Sartori¹, Maiara S. Ferreira¹, Francisco R. Valenzuela Díaz², Vijaya K. Rangari³, Shaik Jeelani³, Esperidiana A. B. Moura TMS 2014 143rd ANNUAL MEETING & EXHIBITION, February 16-20, San Diego Convention Center, San Diego, California
22. Bio-waste derived calcium silicate nanoparticles for tissue regeneration and structural reinforcement applications. Boniface J. Tiimob, Vijaya K. Rangari, Tsemesgen Samuel, Shaik Jeelani. Nanobio-summit, Montgomery Al, October 18, 2013. (Poster).
23. Synthesis and characterization of monocalcium silicate nanoparticles from egg Shell and the study of their biological and mechanical properties. Boniface J.Tiimob, Vijaya K. Rangari, Tsemesgen Samuel, Shaik Jeelani Poster presented at science and technology conference, Montgomery Al, April 5-6, 2013. (Poster).
24. Preparation and Evaluation of 5-fluorouracil Drug Delivery System with Calcium Carbonate Nanoparticles, Diane Render, Vijaya Rangari, Temesgen Samuel, Madan Vig, Jay Ramapuram, Kasturi Pawar, and Shaik Jeelani, EPSCoR National Conference, Nov. 4-6, 2013, Nashville, TN, (Won first prize poster presentation)
25. Electron-Beam induced cross-linking of extruded Nylon-6 nano-composite fibers: Effect of irradiation doses and incorporated with Diamond coated Carbon Nano Tubes and Diamond nano-particles, Muhammad A. Imam, M.G. Gomes, Eesperidiana.A.B. Moura, Shaik Jeelani and Vijay.K.Rangari, 18th International Conference on Surface modification materials by ion beams (SMMIB) Sept 15-20, 2013, Kusadasi, Turkey
26. Effect of Electron-Beam Irradiation on Nylon-6/Diamond Coated CNTS Composite Fiber, M.A. Imam, S. Jeelani, V.K. Rangari, Tuskegee University; M.G. Gomes, E.A.B. Moura, Sampe Tec, October, 21-24, 2013 2013, Century II Convention Center, Wichita, Kansas.
27. Synthesis of metal and metal oxide/CNTs hybrid nanoparticles and their reinforcement in polymers, V. K Rangari, M. Ghouse, S. Dey, S. Jeelani, 19th ICCM, July 28th -2nd August, 2013, Montreal, Canada.
28. Development of Drug Delivery System Using Bio based Calcium carbonate Nanoparticles, Diane Render, Vijaya Rangari, Temesgen Samuel, Madan Vig, Jay Ramapuram, Kasturi Pawar, and Shaik Jeelani, Nanotech May 13-16, 2013, Washington, DC
29. Synthesis of TiO₂/CNTs hybrid nanoparticles and their reinforcement in Nylon-6 polymer fibres, Vijaya K. Rangari, Ghouse M Mohammad Shaik Jeelani, Spring 2013 ACS National Meeting (April 7-11, 2013), New Orleans.
30. Fabrication and characterization of biodegradable polymer/eggshell based hydroxyapatite composite fibers for scaffold applications, V. A. Apalangya, T. Samuel, V. K. Rangari, S. Jeelani, Emerging Researchers National (ERN) conference, February 28 - March 2, 2013. Washington D.C April 2013
31. Mechanochemical Synthesis of Bio Based Calcium Silicate Nanoparticles for Biomedical Applications, Vijaya Kumar Rangari, Boniface Tiimob, Shaik Jeelani,

- MRS Fall Meeting & Exhibit, November 25 - 30, 2012, Hynes Convention Center, Boston, MA.
32. Fabrication and Characterization of Poly (methyl methacrylate) /Bio-based Hydroxyapatite Composites for Scaffold Applications, Vijaya Kumar Rangari, Temesgen Samuel, Vitus Apalangya, Shaik Jeelani. MRS Fall Meeting & Exhibit, November 25 - 30, 2012, Hynes Convention Center, Boston, MA
 33. Synthesis and Characterization of Bio-based CaCO₃/Bio- plast GS 2189 Nanocomposites, T.A. Hassan, V.K. Rangari, S. Jeelani, Tuskegee University, SAMPE-Tech 2012. Charleston Convention Center, North Charleston, South Carolina Conference: October 22-25, 2012
 34. Bio-Based Calcium Carbonate Nanoparticles for Drug Delivery Applications, D.L. Render, V. Rangari, S. Jeelani, T. Samuel, K. Fadlalla, Tuskegee University, SAMPE-Tech 2012 Charleston Convention Center, North Charleston, South Carolina Conference: October 22-25, 2012
 35. Microscopic, Thermal and Mechanical Characterization of Hybrid Nanoparticles of SiC/SiO₂ Infused Polypropylene Composites; James L. Davis, **Vijaya K. Rangari** and Shaik Jeelani, Microscopy and Microanalysis, July 29-Aug2nd 2012, Phoenix, AZ.
 36. Supermagnetic Iron Oxide Nanoparticles Toxicity to Mammalian Cells, K. Vig, P. Tiwari, A. Parveen, V. Rangari, S.R. Singh, Nanotech, June 18-21, Santa Clara CA, Nanotech, 2012 Vol. 3.
 37. Biobased Calcium Carbonate (CaCO₃) Nanoparticles for Drug Delivery Applications Diane Render, Vijaya Rangari, Khalda Fadlalla, Temesgen Samuel and Shaik Jeelani Biosensors & Bioelectronics-2012 May 14-16 Las Vegas, USA
 38. Synthesis of silver nanoparticles in porous activated charcoal for water purification applications, Vitus Apalangya, Vijaya Rangari Temesgen Samuel and Shaik Jeelani, Biosensors & Bioelectronics-2012 May 14-16 Las Vegas, USA
 39. Profiling and Characterization of Silver, Zinc Oxide and Silver/ Zinc Oxide Hybrid Nanoparticles for antimicrobial and antifungal properties, Myisha Roberson, Vijaya Rangari, Clayton Yates, Temesgen Samuel, and Shaik Jeelani, MRS Spring, April 5-3, 2012, San Francisco, CA
 40. Synthesis and Characterization of Bio-based CaCO₃/Polylyte polymer nanocomposites, Tarig A. Hassan, Vijay K. Rangari and Shaik Jeelani, ICME-2011, 18-20 December 2011, BUET, Dhaka, Bangladesh
 41. Thermal and Mechanical Properties of Microwave cured SiC/ EPOXY Nanocomposites. V.K.Rangari, Md. Reza-E-Rabby, S. Jeelani, ICCM-18 International Conference of Composite Materials Jeju, Korea Aug 21st-26th 2011.
 42. Synthesis and characterization of Hybrid titanium/ calcium carbonate nanoparticles for Tissue regeneration applications Ashley Heard, Vitus Apalangya, Vijaya K Rangari and Shaik Jeelani, 241st ACS National Meeting & Exposition, March 27-31, 2011, Anaheim, CA
 43. In-situ growth of CNTs on Woven Carbon Fiber for Advanced Structural Applications, V.K. Rangari, R. Samsur, S. Jeelani, , SAMPE-May 23-26, 2011, Long Beach, CA

44. Synthesis and Characterization of Poly(Methyl Methacrylate)/Aerosil Silica Nanocomposite Thin Films, V.K. Rangari, A. Gaines, S. Jeelani, SAMPE-May 23-26, 2011, Long Beach, CA
45. Metal and metal oxide coated CNTs their applications in thermoset and thermoplastic polymers, Vijaya K Rangari, Sanchita Dey, Mohammad Ghouse, Shaik Jeelani, International Conference on Carbon Nanotechnology: Potential and Challenges, Indian Institute of Technology Kanpur, INDIA, December 15-17, 2010
46. Size Reduction of Egg Shell Particles: The Effect of Ball Milling and Sonication Time Variation, V.K.Rangari, T.A.Hassan, S.Jeelani R.K.Rana, MRS-Fall meeting Nov 30th 2010, Boston
47. Synthesis and Crystal Growth of Iron Oxide Nanoparticles for Drug Delivery Applications, V.K.Rangari; A.Perveen and S.Jeelani, MRS-Fall meeting Nov 29th 2010, Boston
48. Synthesis of ZnO/CNTs hybrid nanoparticles and their reinforcement in Nylon-6 polymer fibers, Vijaya K. Rangari, M.Ghouse, Seyhan Boyoglu and Shaik Jeelani, ACCM-7 (The 7th Asian-Australian Conference on Composite Materials) Nov 15-18, 2010, Taipei, Taiwan
49. Bio-based Calcium Carbonate Nanoparticles and their polymer nanocomposites, Tarig A. Hassan, Vijaya K. Rangari and Shaik Jeelani, ICNP, September 24-26, 2010, Kottayam, Kerala, India.
50. Synthesis of Au and Au/Cu alloy nanoparticles on multiwalled carbon nanotubes by using microwave irradiation, Vijaya K Rangari, Sanchita Dey and Shaik Jeelani, 18th Congress IFHTSE, July, 26 to 30th, 2010, in Rio de Janeiro - RJ - Brazil,
51. Synthesis and microscopic characterization of metal and metal alloy nanoparticles coated CNTs hybrid composites, V.K.Rangari, Sanchita Dey, and S. Jeelani, M&M (Microscopy and Microanalysis), August 1-5, 2010, Portland, OR.
52. Alignment of Si₃N₄ nanorods in Polypropylene single fibers, V.K. Rangari, M. Yousuf, S. Jeelani, Nanotech June 21-24, 2010, Anaheim, CA
53. Mechanochemical and Sonochemical Synthesis of Bio Based Nanoparticles T.A. Hassan, V.K. Rangari, V. Fallon, Y. Farooq, S. Jeelani, Nanotech June 21-24, 2010, Anaheim, CA
54. CNT and Silver-CNT Nanoparticles provide immune responses against RSV S. Boyoglu, L. Adiani, C. Boyoglu, M. Mishra, V. Rangari, V. Dennis, S.R. Singh, Nanotech June 21-24, 2010, Anaheim, CA
55. High Strain Rate Compression Behavior of Conventional and CNF-Filled-Nanophased Glass/Polyester Composites M.K. Hossain, M.E. Hossain, M. Hosur, S. Jeelani, V. Rangari, Nanotech June 21-24, 2010, Anaheim, CA
56. Fabrication and Thermomechanical Characterization of CNF-Filled Polyester and E-Glass/Polyester Nanophased Composites M.K. Hossain, M.E. Hossain, M. Hosur, S. Jeelani, V. Rangari, Nanotech June 21-24, 2010, Anaheim, CA
57. Surface Modification and Performance Analysis of Jute Based Nanophased Green Composite, M.K. Hossain, M.W. Dewan, M. Hosur, S. Jeelani, V. Rangari, Nanotech June 21-24, 2010, Anaheim, CA
58. Synthesis and characterization of Ag/CNTs and their polymer nanocomposites, V K Rangari, Sanchita Dey and S Jeelani, SAMPE-2010, May 17-20, 2010, Washington State Convention Center, Seattle, WA.

59. Synthesis and characterization of eggshell/polylyte bio nanocomposites, Tarig A. Hassan, Vijaya K. Rangari and Shaik Jeelani, SAMPE-2010, May 17-20, 2010, Washington State Convention Center, Seattle, WA.
60. Synthesis and XPS characterization of SiC/Polyhedral oligomeric sil-sesquioxane, Vijaya K. Rangari, Md. Reza-E-Rabby, Shaik Jeelani, SAMPE-2010, May 17-20, 2010, Washington State Convention Center, Seattle, WA.
61. Decoration of Ag-Cu nanoparticles on Multiwalled carbon nanotubes and their applications in polymer composites, Vijaya K Rangari, Sanchita Dey and Shaik Jeelani, MRS Spring, April 5-9, 2010, San Francisco, CA.
62. Synthesis, Fabrication, Thermal and Mechanical Characterization of Eggshell Based Bio-Nanocomposites, Tarig Hassan, Vijaya K Ragnari and Shaik Jeelani, Gordon Research Conference – Composites, January,17-22, 2010, Ventura, CA
63. Synthesis, characterization and analysis of iron oxide –paclitaxel microspheres, N. Wright Bolden, V. Rangari, S. Jeelani, S. Boyoglu, J. Babu, Gordon Research Conference – Composites, January,17-22, 2010, Ventura, CA
64. Fabrication and characterizastion of high strength nanocomposite single fibers for multifunctional applications. Vijaya K. Rangari, M.Ghouse and Shaik Jeelani, INDO-US WORKSHOP ON NANOTECHNOLOGY: APPLICATIONS AND IMPLICATIONS, Indian Institute of Chemical Technology, Hyderabad November 10-12, 2009
65. Sonochemical Synthesis and Characterization of Bio-Based Hydroxyapatite Nanoparticles, Tarig Hassan, Vijaya K Ragnari and Shaik Jeelani, MRS Fall Meeting, Nov 30-Dec 4, 2009, Boston, MA
66. Fabrication and Characterization of High Strength Antimicrobial Nanocomposite Fibers, Vijaya K Rangari, M. Ghouse, Shaik Jeelani, ASME International Mechanical Engineering Congress & Exposition, Nov 13-19, 2009, Lake Buena Visa, FL
67. Growth mechanism of MWCNTs using nanoparticles as catalysts Vijaya K Rangari, Rahman Samsur, Shaik Jeelani, Joint Canadian-American Society for Composites-Twenty-fourth Technical Conference, Sept 15-17 2009, University of Delaware, Delaware
68. Synthesis, Comparative Study of Thermal and Microwave cured Epon862/CNFs Nanocomposites, Vijaya K. Rangri, Mohammad S. Bhuyan, Shaik Jeelani, ICCM-17 17th International Conference on Composite Materials 27 Jul 2009 - 31 Jul 2009, Edinburgh International, Convention Centre (EICC), Edinburgh, UK
69. Synthesis of drug loaded iron oxide nanoparticles, N Wright Bolden, V. Rangari, S. Jeelani, ICCM-17 17th International Conference on Composite Materials, 27 Jul 2009 -31 Jul 2009, Edinburgh International Convention Centre (EICC), Edinburgh, UK
70. Fabrication of Nylon Nano Diamond Coated MWCNT Composite Fibers, V. K. Rangari, G. M. Mohammad, S. Jeelani, Y. U. Butenko,; V. R. Dhanak, SAMPE '09 Conference and Exhibition, Baltimore, Maryland, May 18-21, 2009
71. Synthesis and Characterization of Calcium Carbonate Nanoparticles Derived from Eggshell, V. Rangari, T. A. Hassan, V. K. Rangari, S. Jeelani, SAMPE '09 Conference and Exhibition, Baltimore, Maryland, May 18-21, 2009

72. Synthesis and Characterization of Drug coated Magnetic Nanoparticles, V. Rangari, N. W. Bolden, V. K. Rangari, S. Jeelani, SAMPE '2009 Conference and Exhibition, Baltimore, Maryland, May 18-21, 2009
73. Silver Coated Carbon Nanotubes Inhibit RSV Infection, L. Adiani, P. Subbarayan, S. Boyoglu, K. Vig, S. Pillai, V. Rangari, S.R. Singh, Nanotech Conference & Expo, George R.Brown Convention Center, May 3-7, 2009, Houston, TX
74. Respiratory Syncytial Virus Inhibition by Gold and Titanium Nanoparticles K. Vig, S. Boyoglu, V. Rangari, S. Pillai, S.R. Singh, Nanotech Conference & Expo, George R.Brown Convention Center, May 3-7, 2009, Houston, TX
75. Antimicrobial properties of silver coated CNT, D. Ashour, P. Subbarayan, L. Adiani, S. Boyoglu, G. Mohammad, V. Rangari, S. Jeelani, S. Ram Singh, S. Pillai, Nanotech Conference & Expo, George R.Brown Convention Center, May 3-7, 2009, Houston, TX,
76. Synthesis and Characterization of Calcium Silicate via mechanochemical and Sonochemical method, T.A. Hassan, V.K. Rangari, S. Jeelani, Nanotech Conference & Expo, George R.Brown Convention Center, May 3-7, 2009, Houston, TX,
77. Synthesis of Bio Calcium Carbonate Nanoparticles by Size Reduction of Eggshell, Tarig Hassan, Vijaya K Ragnari and Shaik Jeelani, MRS Spring Meeting, April, 13-17, 2009, San Francisco, CA
78. Synthesis, Thermal and Mechanical characterization of Microwave cured Epoxy/CNTs nanocomposites, Vijaya K. Rangari, Mohmmad S. Bhuyan and Shaik Jeelani, ICCST/7 – Seventh International Conference on Composite Science and Technology Jan, 20-22, 2009 - SHARJAH, UNITED ARAB EMIRATES
79. Thermal and mechanical characterization of polymer nanocomposites of Si₃N₄/ Polypropylene fibers, Vijay K. Rangari, M.Yousuf, M.Ghouse and Shaik Jeelani, ISAMPE National Conference on Composites : INCCOM-7, National Aerospace Laboratories, Bangalore-17 (NAL's Golden Jubilee Year 2008-09)
80. Microwave processing and charactering of Epoxy 862/CNT nanocomposites, Vijaya K. Rangari, Mohmmad S. Bhuyan and Shaik Jeelani, SAMPADA-2008, Dec 8th 12, University of Pune, India
81. Thermal and Mechanical Characterization of Foam Core Materials Containing POSS/Expandable Thermoplastic Microspheres. Wanda.D. Jones, V.K. Rangari, S. Jeelani – SAMPE Spring Conference and Exhibition, May 16-21, 2008, Long Beach, CA.SAMPE 2008
82. Synthesis and Mechanical Properties of Shear Thickening Fluid/Kevlar Composite for Body Armor Application, Vijaya K. Rangari, Tarig A. Hassan and Shaik Jeelani. SAMPE '08 Long Beach, Material and Process Innovations: Changing our World, May 16-21, 2008
83. Fabrication of Nylon nanocomposite fibers for Antimicrobial Textile applications, Vijaya K. Rangari G. M. Mohammad, S. Jeelani. The 2nd International Conference on Heterogeneous Materials Mechanics (ICHMM-2008) June 3-8, 2008 Huangshan, China
84. Synthesis of Nylon/CNT/Ag fiber for antimicrobial textile applications. Vijaya K. Rangari, Ghouse, M. Mohammad , Shaik Jeelani, Komal Vig, Seyhan Boyoglu, Shree Ram Singh, and Shreekumar Pillai Force Health Protection -- Prevention is

- the Key, 11th Annual Force Health Protection Conference, Albuquerque Convention Center Albuquerque, New Mexico 9 - 15 August 2008,
85. Characterization of nanocomposite materials using electron microscopy
V.K.Rangari, M.Y.Shaik, and S. Jeelani, Microscopy & Microanalysis 2008 Meeting, August 3-7, 2008, Albuquerque Convention Center, Albuquerque, New Mexico
 86. Synthesis of magnetic nanoparticles and its applications in drug delivery systems N. Wright Bolden, V. Rangari, S. Jeelani, *Tuskegee University, US NSTI, NanotechJune 1-5, Boston-2008,*
 87. Evaluation of Nanoencapsulated DNA Vaccine for RSV, S. Boyoglu, K. Vig, V. Rangari, S. Pillai, V. Dennis, S.R. Singh, *Alabama State University, US, NSTI, NanotechJune 1-5, Boston-2008,*
 88. Use of Nanoparticles as Therapy for Respiratory Syncytial Virus Inhibition K. Vig, S. Boyoglu, V. Rangari, L. Sun, A. Singh, S. Pillai, S.R. Singh, *Alabama State University, US, NSTI, NanotechJune 1-5, Boston-2008,*
 89. Thermal and Mechanical Response of POSS coated Nanophased expandable foam core materials, W.D. Jones, V.K. Rangari, S. Jeelani, *Tuskegee University, US, NSTI, NanotechJune 1-5, Boston-2008,*
 90. In-situ synthesis of Cu nanoparticles on MWCNTS using Microwave irradiation V.K. Rangari, S. Dey, S. Jeelani, *Tuskegee University, US, NSTI, NanotechJune 1-5, Boston-2008,*

Invited Talks: National and International

1. Invited talk: Eggshell based nanoparticles for biomedical and polymer composite applications, July 1st 2015, Polytechnique institute, University of Sao Paulo, Brazil.
2. Invited talk: Industrial Eggshell wastes for polymer nanocomposite and biomedical applications, International conference on Environment and Energy (ICEE-2014), Dec 13-15, 2014, JNTU-Hyderabad, India
3. Invited talk: Carbon nanotubes and their applications in polymer composites, Nanotek & Expo, December 02-04, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA
4. Invited talk: Nanoparticles and Drug Delivery Applications, Session 6-5: Nanotechnology in BIT's 11th Annual Congress, Drug Discovery at IDDST-2013, November 13-16, 2013 in Hainan International, Convention and Exhibition Center, Haikou, China.
5. Invited talk : Nanomaterials for Biomedical Applications, NanoSummit 2013, Oct 17-18, Renaissance hotel Montgomery,
6. Invited talk: Nanobiomaterials for biomedical applications at College of Eastern Zone Sao Paulo FATEC ZL), August 21, 2013, Brazil
7. Keynote speaker at Nanocon 12, Oct 18, 2012, 2nd International conference, on Synthesis of CaCo₃ Nanoparticles from Egg shells their Applications in polymers, Bharati Vidhyapeeth, University, Pune, India.

8. Invited Seminar lecture on Fabrication and properties of In-situ grown CNTs on woven carbon fiber /epoxy laminates at Cornell University, Department of Fiber Science and Apparel Design, on Sept 25th 2012.
9. Invited lecture on Nanoparticles for Biomedical Applications at Workshop on: Advances in the use of radiation technology and nanotechnology in tissue engineering, organized by IAEA, ARCAL, IPEN CNEN, at Sao Paulo, Brazil August 15th 2012.
10. Invited lecture on Synthesis and Characterization of Hybrid Nanoparticles and their applications in polymer fibers, Department of Materials and Metallurgy of polytechnic school at University of Sao Paulo/IPEN, August 14th 2012.
11. Invited lecture on Carbon nanotubes and their applications in polymer composites at International Seminar on: Polymeric materials and Biopolymers: Organized by Society of Plastic engineers, IPEN-CEEN/SP, Sao Paulo, Brazil, August, 16th 2012.
12. Invited seminar lecture on Carbon Nanotubes and Their Applications in Polymer Composites at Department of Chemical Engineering, Indian Institute of Technology-Delhi, India, 06/08/2012.
13. Invited speaker at International Conference and Exhibition on Biosensors and Bioelectronics on May 14-16 May 2012 Las Vegas, USA on Nanoparticles and drug delivery applications.
14. Invited seminar at Air Force Research Laboratory Munitions Directorate Flight Vehicles Integration Branch Eglin AFB, Florida on Carbon Nanotubes and Their Applications in Polymer Composites on Feb 22nd 2012.
15. Invited Speaker at International Conference on Mechanical Engineering 2011 (ICME2011) 18-20 December 2011, Dhaka, Bangladesh on Synthesis and characterization of bio-based CaCO₃/polylyte polymer nanocomposites.
16. Invited Lecture at NASA Glen Research Center on Sept 2nd 2011, on thermal and mechanical properties of in-situ grown CNTs on woven carbon fiber laminates.
17. Invited Speaker at International Workshop on Innovation and Applications in Composite and Nanocomposite Materials (IWINM-2011) 15th April 2011, IPEN-CNEN/SP Conference Center, São Paulo, Brazil.
18. Invited Lecture on Nanoparticles for Medical applications, Faculdade de Ciencias Farmaceuticas at the University of Sao Paulo (Pharmaceutical Sciences Faculty, USP) on 13th April, 2011
19. Invited Lecture on Applications of Nanotechnology in Advanced Composite Materials at Faculdades de Tecnologia do Estado de (FATEC) São Paulo, Polymer Technology College of East Zone São Paulo – (FATEC ZL)- April 12th 2011
20. Invited speaker at Second International Conference on Natural polymers, Bio-materials ICNP-2010, Kottayam, Kerala, India on Bio-based Calcium Carbonate Nanoparticles and their polymer nanocomposites, Sept 24th 2010.
21. Invited Lecture on Metal and metal oxide coated CNTs their applications in thermoset and thermoplastic polymers, at International Conference on Carbon Nanotechnology: Potential and Challenges, Indian Institute of Technology Kanpur, INDIA, December 15-17, 2010
22. Invited Seminar Lecture on Nanoscience and Nanotechnology at Vignan Bharati Institute of Technology, Hyderabad, India on 20th Nov 2009.

23. Keynote lecture at Indo-US workshop on Nanotechnology: applications and Implications, Indian Institute of Chemical Technology, Hyderabad, Nov 10-12, 2009.
24. Invited seminar at Auburn University, Polymer and fiber Engineering Department- Seminar on Polymer Nanocomposite Materials on Oct 14th 2008