Dr. VENU REDDY,
DST-INSPIRE Faculty (Ministry of Science and Technology), Govt. of India
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Present positions

DST-INSPIRE Faculty (Ministry of Science and Technology), Govt. of India & Head, Nanotechnology Research Centre, SRKR Engg. College, Bhimavaram-534204,

Education

Qualifications	University/Board	Year of Passing	Grade/Rank
Ph.D	Chungnam National University, Korea	2013	A+
M.Sc	Acharya Nagarjuna University, India	2007	First class with Distinction
B.Sc	Andhra University, India	2005	First class

Awards

1. Best Oral presentation award for "**On-chip manipulation and trapping of microorganisms using a patterned magnetic pathway**" Nano advance material field excellent paper presentation, November 26, 2012, Korea.

2. **DST-INSPIRE Faculty Award, December 2013, India**.

Research Experience

1. DST-INSPIRE Faculty (Sept. 2017- Present), SRKR Egg. College, India.
2. DST-INSPIRE Faculty (May 2014-Aug.2017), University of Hyderabad, India.
3. Post doctoral Fellow (Feb. 2014- Mar. 2014), Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea**.**
4. Post doctoral Fellow (August 2013- Feb 2014), Chungnam National University, South Korea**.**
5. Ph.D scholar (Sept 2009- August 2013), Chungnam National University, South Korea**.**
6. DRDO - Junior Research Fellow (Nov 2007- July 2009), Andhra University, India.

Teaching Experience

1. DST-INSPIRE Faculty (Sept. 2017- Present), SRKR Egg. College, India.
2. DST-INSPIRE Faculty (May 2014-Aug.2017), University of Hyderabad, India.

Projects (Chief Investigator)

1. DST (Inspire award) sponsored project on "*Synthesis and Characterization of Novel Switchable Magnetic Core Shell Hybrid Materials and Their Applications for Generation of High Sensitive Diagnostic Devices*" (5^{th} May, 2014 – Present) at University of Hyderabad, India. (Amount: 83 lacks (*140,000 USD)* for 5 years)
2. DST (Indo-Korean project) sponsored project on "*Miniaturized electrochemical devices for the automated amplified multiplex detection of cancer biomarkers*" (under the process of grant release) at University of Hyderabad, India. (Amount: 35 lacks (55,000 USD) for 3 years)

Projects (participated)

1. World Class University Project (Sept. 2009- Aug. 2013) at Chungnam National University, South Korea.
2. DRDO sponsored project on "*Development of Quoted Optode Films for Spot Detection of Toxic Chemicals in Drinking Water for Defense Applications and Technology Development for field study*" (Nov. 2007 – Aug. 2009) at Andhra University, India.
3. Drug analysis (18^{th} May, 2006 – 02^{nd} July, 2006) at Natco Pharma Limited, India.

Countries visited

1. **Korea- Visiting Professor:** Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea (Aug.2015 to Nov.2015)

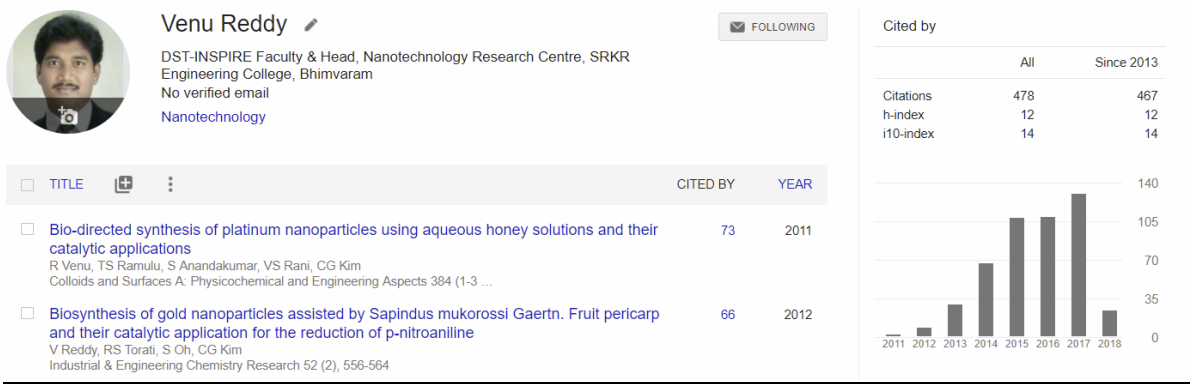
2. **Korea-Study**: Ph.D degree & Postdoctoral Fellow, September 2009- Present, Chungnam National University & Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea

3. **Japan-Scientific Discussion**: Nanoparticle synthesis, 18-20 February, 2010 at Tohoku University, Sendai, Japan.

4. **United States of America- Conference**: NANOSMAT 2013-USA, 26 to 31 May, 2013 at University of South Florida. Tampa, USA.

Research

Publications: **34**
Patents: **02**
Conference talks (National & International): **36**
Total sum of impact factor (according Thomson Reuters 2017): **130**
Total Citations: **478**



Publications

1. ***Venu Reddy***, *K. K. C. Satish Babu, Sri Ramulu Torati, Yun Ji Eom, Tran QuangTrung, Nae-EungLee, CheolGi Kim, Scalable production of water-dispersible reduced graphenoxide and its integration in a field effect transistor, International Journal of Industrial Engineering Chemistry, In press (2018), [IF-4.5]*

2. *M. Bhanu, B.S Diwakar, K.C.S.B Kasturi,* ***Venu Reddy****, Facile synthesis of bovine serum albumin conjugated low-dimensional ZnS nanocrystals, International Journal of Biological Macromolecules, 101, (2017) 729-735. [IF-3.671]*

3. *Byoungwa Lim, Sri Ramulu Torati, Kun Woo Kim,* ***Venu Reddy****, Xinghao Hu, CheolGi Kim, Concentric manipulation and monitoring of protein loaded superparamagnetic cargo using magnetophoretic spider web, Nature Asia Materials,9,(2017) e369.[IF-9.17]*

4. ***Venu Reddy****, Byeonghwa Lim, XingHao Hu, KunWoo Kim, Mital Jadhav, Roozbeh Abedini-Nassab, Young-Woock Noh, Yong Taik Lim, Benjamin B. Yellen, CheolGi Kim, Magnetophoretic circuits for digital control of single particles and cells, Nature Communications, 5,(2014) 384. [IF-12.124]*

5. ***Venu Reddy****, B. Lim, X. H. Hu, J. Ilgyo, T. S. Ramulu, C. G. Kim, On-Chip Manipulation and Trapping of Microorganisms using a Patterned Magnetic Pathway, Microfluidics and Nanofluidics, 14 (2013) 277-285. [IF-2.334]*

6. ***R. Venu****, T. S. Ramulu, S. Anandakumar, V.S. Rani, C. G. Kim, Bio-directed synthesis of platinum nanoparticles using aqueous honey solutions and their catalytic applications, Colloids and surfaces A: Physicochemical and Engineering aspects, 384 (2011) 733-738. [IF-2.714]*

7. ***Venu Reddy***, *T. S. Ramulu, Sunjong Oh, CheolGi Kim, Biosynthesis of gold nanoparticles assisted by Sapindus mukorossi fruit pericarp and their catalytic application for the reduction of p-nitroaniline, Industrial engineering chemistry and research, 52 (2013) 556-564. [IF-2.843]*

8. ***Venu Reddy***, *Torati Sri Ramulu, Brajalal Sinha, Jaein Lim, Md. Rashedul Hoque, Jun-Heon Lee, ChoelGi Kim, Electrochemical detection of single nucleotide polymorphism in short DNA sequences related to cattle fatty acid binding protein 4 gene, International journal of electrochemical science, 7 (2012) 11058-11067. [IF-1.692]*

9. *Md. Azahar Ali, Saurabh Srivastava, Pratima R. Solanki,* ***Venu Reddy****, Ved V. Agrawal, CheolGi Kim, Renu John, and Bansi D. Malhotra, Highly Bienzyme Efficient Functionalized Nanocomposite-Based Microfluidics Biosensor Platform for Biomedical Application, Scientific Reports NPG, 3 (2013) 2661. [IF-4.259]*

10. *Chandan Singh, Md Azahar Ali,* ***Venu Reddy****, Dinesh Singh, Cheol Gi Kim, G Sumana, BD Malhotra, Biofunctionalized graphene oxide wrapped carbon nanotubes enabled microfluidic immunochip for bacterial cells detection, Sensors and Actuators B: Chemical, 255 (2017) 2495-2503. [IF-5.04]*

11. *K. Raman, B.S. Diwakar, K. Varaprasad, V. Swaminadhan,* ***Venu Reddy****, Magnetic properties of nano-multiferroic materials, Journal of Magnetism and Magnetic Materials, 442, (2017) 453-459. [IF-2.630]*

12. *T. S. Ramulu,* ***Venu Reddy****, B. Sinha, B. Lim, S. J. Jeon, S. S. Yoon and C. G. Kim, Nanowires Array Modified Electrode for Enhanced Electrochemical Detection of Nucleic Acid, Biosensors and bioelectronics, 40 (2013) 258-264. [IF-7.47]*

13. *B.S. Diwakar, K. Varaprasad, D.Q. Acuna, K. Ramam, V. Swaminadham ,* ***Venu Reddy****, Insight of electrical behavior in ferroelectric-semiconductor polymer nanocomposite films of PVDF/ZnSe and PVDF/Cu:ZnSe, Journal of applied polymer Science, 134, 25, (2017) 44983. [IF-1.68]*

14. *Mohamed Abbas, B.Parvatheeswara Rao,* ***Venu Reddy****, CheolGi Kim, Fe_3O_4/TiO_2 core/shell Nanocubes: Single batch surfactant less synthesis, characterization and efficient catalysts for methylene blue degradation, Ceramic International, 40 (2014) 11177. [IF-2.986]*

15. *Sunjong Oh, Mital Jadhav, Jaein Lim,* ***Venu Reddy****, CheolGi Kim, An organic substrate based magnetoresistive sensor for rapid bacteria detection, Biosensors and bioelectronics, 41 (2013) 758-763. [IF-7.47]*

16. *T. S. Ramulu,* ***R. Venu****, S. Anandakumar, V. Sudha Rani, S. S. Yoon, C. G. Kim, Structure, growth and magnetic property of hard magnetic CoPtP nanowires synthesize by electrochemical deposition, Thin Solid films, 520 (2012) 5508-5511. [IF-1.867]*

17. *T. S. Ramulu, **R. Venu**, B. Sinha, S. S. Yoon and C. G. Kim, Eletrodeposition of CoPtP/Au multisegment nanowires: Synthesis and DNA functionalization, International journal of electrochemical science, 7 (2012) 7762-7769. [IF-1.692]*

18. *Y.L.N. Murthy, B. Govindh, B.S. Diwakar, K. Nagalakshmi, **R. Venu**, Microwave- Assisted Neat Reaction Technology for Regioselective Thiocyanation of Substituted Anilines and Indoles in Solid Media, Journal of the Iranian Chemical Society, 8, (2011) 292-297. [IF-1.407]*

19. *B. Sinha, T.S. Ramulu, K.W. Kim, **R. Venu**, J.J. Lee, C.G. Kim, Planar Hall Resistance Sensor based Magnetoresistive Aptasensor for Thrombin Detection, Biosensors and bioelectronics, 59 (2014) 140. [IF-7.476].*

20. *P.M. Chavhan, **Venu Reddy**, CheolGi Kim Nanostructured Titanium Oxide Platform for Application to Ascorbic Acid Detection, International journal of electrochemical science, 7 (2012) 5420 –5428. [IF-1.692]*

21. *Afroja Tazin Islam, A. K. M. A. H. Siddique, T. S. Ramulu, **Venu Reddy**, Young-Jae Eu, Seung Hyun Cho and CheolGi Kim, Ultrasonic alignment of bio-functionalized magnetic beads and live cells in PDMS micro-fluidic channel, Biomedical Microdevices, 14 (2012) 1077-1084. [IF-2.924]*

22. *Y.L.N. Murthy, **R. Venu**, B. Govindh, B.S. Diwakar, K. Nagalakshmi, E.R. Singh, Solvent-Free Synthesis of β-Enamino Compounds Promoted by Ferric(III) Ammonium Nitrate, Asian journal of chemistry, 22, (2010) 3047 – 3053. [IF-0.355]*

23. *Hyuntai Kim, **Venu Reddy**, Kuun Woo Kim, Iigyo Jeong, Xing Hao Hu, and CheolGi Kim, Single magnetic bead detection in a microfluidic chip using planar Hall effect sensor, Journal of magnetics, 19 (2014) 1-5. [IF-0.421]*

24. *Sri Ramulu Torati, **Venu Reddy**, Seok Soo Yoon, CheolGi Kim, Electrochemical biosensor for Mycobacterium tuberculosis DNA detection based on gold nanotubes array electrode platform, Biosensors and bioelectronics, 78 (2016) 483. [IF-7.47]*

25. *K.W. Kim, T.S. Ramulu, **Venu Reddy**, S.S. Yoon, Planar hall resistance sensor for monitoring current, Journal of Magnetics, 19 (2014) 151-154. [IF-0.421]*

26. *K.W. Kim, **Venu Reddy**, T.S. Ramulu, XingHao Hu, A. Sandhu, C.G. Kim, On-chip magnetometer for characterization of superparamagnetic nanoparticles, Lab-on-a-chip, 15 (2015) 696. [IF-6.0]*

27. *Sri Ramulu Torati, **Venu Reddy**, Seok Soo Yoon, CheolGi Kim, Protein Immobilization onto electrochemically synthesized CoFe nanowires, International journal of nanomedicine, 10 (2015) 645. [IF-4.384]*

28. *P. M. Chavhan, **Venu Reddy**, Pratima R. Solanki, Bansi D. Malhotra and CheolGi Kim, Sol-Gel Derived Nanostructured Zirconia Platform for vitamin C detection, Journal of the electrochemical society, 160 (2013) H93-H97. [IF-3.259]*

29. *T. S. Ramulu, **R. Venu**, B. Sinha, B. Lim, S. S. Yoon and C. G. Kim, Synthesis and amine functionalization of magnetic CoFe/Au/CoFe multisegmented nanowires, Thin solid films, 546, (2013) 255-258. [IF-1.867]*

30. *K. Naga Lakshimi, B. S. Diwakar , B. Govindh, P. Gopal Reddy, **Venu Reddy**, I. Bhargavi, T.S.P. Devi, Y.L.N Murthy, V. siddaiah A Simple and Straightforward Synthesis of Cinnamic acids and Ylidene Malononitriles via Knoevenagel Condensation Employing DABCO as Catalyst, Asian Journal of Chemistry, 29, (2017) 1561-1564. [IF- 0.355]*

31. *Torati Sri Ramulu, **Reddy Venu**, Sarella Anandakumar , Brajalal Sinha , Seok Soo Yoon, and CheolGi Kim, Electrochemical synthesis and characterization of NiFe/Au multisegmented nanowires, Advanced Materials Research, 311-313 (2011) 370-376. [IF-NO]*

32. *Y. L. N. Murthy, B. S. Diwakar, B. Govindh, **R. Venu**, K. Nagalakshmi, Silica Perchloric Acid Matrix Supported Ring Opening of Epoxide Under Microwave Radiation, Chemical Science Transactions, 2 (2013) 805-812. [IF- NO]*

33. ***Venu Reddy**, Green Synthesis of Platinum and Gold Nanoparticles and Their Self-assembled Nanostructures, Chemical Science Transactions, 6, 3, (2017), 417-427. [IF- NO]*

34. *Bhagavthula D.S, B. Govindh, **Venu Reddy** A Brief Review on Synthesis of β-amino Alcohols by Ring Opening of Epoxides, Research & Reviews: Journal of Chemistry, 6, (2017) 27-46. [IF- NO]*

Patents

1. *US Patent # US9511368B2 (Granted) – December 06, 2016 – Transporting, Trapping and Escaping Manipulation Device for Magnetic Bead Biomaterial Comprising Micro-Magnetophoretic Circuit (in USA)*

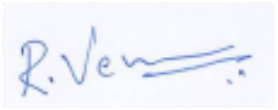
2. *Korean Patent # 10-1576624 (Filled) – December 15, 2015 – Transporting, Trapping and Escaping Manipulation Device for Magnetic Bead Biomaterial Comprising Micro-Magnetophoretic Circuit (in Korea)*

Personal profile

Name	:	Reddy Venu
Father's name	:	Reddy Chandra
Date of birth	:	28-07-1983
Age	:	34 years
Sex	:	Male
Marital status	:	Married
Languages known	:	English, Telugu, Hindi
Nationality	:	Indian
Passport Number	:	H3701495
Permanent address	:	Venu Reddy, Mallikaruna pet 1st line, Plot No. 101, Harika residency Guntur-2, Andhra Pradesh India – 522002

Declaration

I, hereby declare that the above particulars are true and best of my knowledge. And I bear the responsibility for the correctness of above-mentioned information.



Date: 08-03-2018

Place: Bhimavaram

REDDY VENU