

Dr. M. V. Reddy
(Dr. M.V. Venkatesh Reddy)

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<http://www.physics.nus.edu.sg/solidstateionics/>

<http://www.researcherid.com/rid/B-3524-2010>

<http://scholar.google.com.sg/citations?user=pWKR2M0AAAAJ&hl=en>



Academic Qualifications/Current Position:

July. 2013- Senior Research Fellow @ Department of Materials Science & Engineering:
And Department of Physics, NUS

Jan. 2013- Senior Research Fellow @

June 2013 Graphene Research Center, Department of Chemistry and Physics, NUS

Sept. 2011- Research Fellow A @ Department of Physics &

Dec. 2012 : Graphene Research Center, Department of Chemistry, NUS

Jan.2010- Research Fellow A @ Department of Physics and

Sept.2011: Department of Materials Science & Engineering, NUS

July2003- Research Fellow B @ Department of Physics, NUS

Dec.2009:

1999- Doctor of Philosophy (Ph. D) in Physics Chemistry of Condensed Matter

2003(March) (Materials Science) (Mention highest honors)

Institute of Condensed Matter Chemistry of Bordeaux (ICMCB-CNRS)/

National School of Chemistry and Physics of Bordeaux (ENSCP).

Department of Solid State Ionics

University of Bordeaux-I, France.

Research Interests	Energy Storage and Conversion Materials; Advanced Functional Materials; Energy & Environmental Science; Advanced Batteries (Li-ion; Mg-; Na-;Li-air batteries); Solid Electrolytes; Microbatteries; Supercapacitors; Nanomaterials; Materials Synthesis & Characterization; Electrochromics: CO ₂ capture materials.
Teaching Interests	Nanotechnology; Energy Storage and Conversion; Environmental Engg.; Materials Synthesis and characterization; Advanced Analytical techniques; Materials Chemistry; Electrochemistry

Summary of my Research, Teaching and Service

- 1. Peer Reviewed Articles total: 135** (Cathode & Anode materials for Li-ion Batteries:106; Solar cells:3; Supercapacitors: 6; Electrolytes : 2; Microbatteries:7; Electrochromics: 1) (8 papers submitted/under revision)
 2. International Conference papers published as proceedings (non refereed) : 16
 3. Singapore Science and Engineering Fair (SSEF) Research papers (refereed by 2-3 local experts): 29 (Awards: Gold: 8; Silver: 5 : Bronze: 6; Merit:10.
 4. International Science & Engg. Fair (ISSF), USA: 1 (Won 1st prize (1500 USD cash prize), MOE mentioned my project made the Singapore team has done the nation proud at the Intel International Science and Engineering Fair (ISEF) 2013) <http://www.moe.gov.sg/media/press/2013/05/>.
 5. American Chemical Society 1st prize (Best student poster award, won 3000 USD cash prize)
 6. Published highest number of publications in international journals from high school and junior college students research projects and no 1 in molten synthesis (source: Scopus).
 7. Science Mentorship Programme (SMP), Ministry of Education (MOE). Youth science conference research papers: 18 (Distinction:10; Merit: 7; 3M best poster award: 3; 3M Young Scientist award: 1).
 8. SCIENTIA research papers (NUS High School) : 10 (7 students won A*star Young Researcher award)
 9. Science Research Programme (SRP) papers (H3 and Enrichment), MOE : 26 (best poster award : 1 ; VIP presentation: 1; Distinction (2013) : 5 ; Merit : 2)
 10. Lee Kuan Yew Award for Mathematics and Science: 1 (This award recognizes outstanding performance of SRP-H3 student).
 11. Conference (local & International) abstract published >130
 12. Poster presentations : 100 (around 60 posters won poster award)
 13. Talks given/accepted talks (Key note(4), Plenary (4), Invited(35) & Oral (18)) : 57
 14. Organized One International conference (ICYRAM 2012) Served as a session and theme chair (attracted highest number international speakers).
 15. **Awards: (a) Science Mentorship Programme (SMP) Outstanding Mentor Award (2010, 2011, 2012, 2013 and 2015) from Ministry of Education, Singapore. (b) Inspiring Research Mentor Award (2011, 2012, 2013, 2014 and 2015) from NUSHS, Singapore.**
 16. **Editorial positions: (a) Member of Editorial Advisory Board** in Materials Research Bulletin, Elsevier (since July 2014). (b) **Regional editor:** Nanoscience & Nanotechnology-ASIA (since Aug. 2011) and (c) **Editorial board member of open access journals:**
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17. Shortlisted for 2015 ARC Future Fellowship for level 2. Overall ranking of my proposal: 10 to 25 %
18. Research mentor: Trained/Training: >200 students under NUS-SMP, -SCIENTIA, -ARP, -IRP, -SRP, -SRP-H3, -Poly (FYP project) and SSEF projects from local high school, Junior college, Nanyang poly, Final year project (FYP), students from Engg. Science, B.S, 3 M.S, 9 Ph.D (co-mentor) (5 NUS and 4 Ph. D external) and international exchange students.
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(a) Research publications

i.	Scholarly books	:	Nil
ii.	Scholarly book chapters	:	Nil
iii.	Refereed journal articles	:	135
iv.	Conference proceeding (conference papers)	:	15
v.	High school & College students proceeding papers	:	100

Cumulative Impact Factor of all publications: 640

Citations: >4850; h index: 35 (Source: Scopus)

>5300; h index: 38; i10 index: 86 (Google Scholar)

Publications (since 2010) : 100 ; Citations (since 2010) : 4875

Publications Summary

Publications Name, Impact factor (I.F.) and number of publications

- Advanced Functional Materials, (Wiley, Germany), (I.F.= 10.4, Tier 1 premium) : **2**
- Energy and Environmental Science, (RSC, UK) (I.F: 20.523) : **2**
- Angew Chemie Int. (Wiley Germany, I.F.= 11.26, Tier 1) : **1**
- Scientific Reports (Nature publishing group, I.F = 5.578) : **1**
- Small (Wiley Germany, I.F= 7.823) = **1**
- Chemical Reviews (ACS, USA, (I.F.: 45.661) : **1**
- Journal of Physical Chemistry B/C, (ACS, USA) : (I.F: 4.772) : **8**
- ACS Applied Materials and Interfaces (I.F.: 6.723, ACS) : **12**
- ACS Sustainable Chemistry & Engineering (ACS, USA I.F: 4.642) : **3**
- Chemistry of Materials (ACS, USA) (Journal H-index:188) (I.F. : 8.354): **2**
- Journal of Materials Chemistry A (RSC,UK) (I.F: 7.443) : **8**
- Journal of Power Sources (Elsevier, UK) (I.F: 6.217) : **11**
- Electrochimica Acta (Elsevier, UK) (I.F: 4.504) : **18**
- CrystEngComm. (RSC, I.F.: 4.034, U.K) : **2**
- RSC Advances (RSC, I.F. 3.84 , UK) : **7**
- Chemical Communications (I.F.:6.834, RSC UK) : **1**
- Nano Scale (I.F.: 7.394, RSC UK) : **1**
- Journal of the Electrochemical Society (ECS, USA) (I.F.: 23.266) : **7**
- Electrochemical and Solid State Letters (AIP, USA) (I.F.:2.32) : **1**
- Physical Chemistry & Chemical Physics (RSC, I.F: 4.198) : **1**
- Electrochemistry Communications (Elsevier, UK) (I.F: 4.287) : **1**
- Nuclear Instruments and Methods in Physics Research B (Elsevier) (I.F.= 1.186) : **1**
- Journal of Electroanalytical Chemistry (Elsevier, UK) (I.F:2.729) : **2**
- Journal of Solid State Electrochemistry (Springer, Germany) (I.F: 2.446) : **10**

- Materials Research Bulletin (Elsevier, UK) (I.F.: 2.288) : **4**
- Surface and Interface Analysis (Wiley (I.F.: 1.393)): **1**
- Journal of Nanoscience & Nanotechnology (Am. Sci. Pub., I.F.: 1.339) : **1**
- Materials Science & Engg. B (Elsevier , UK, I.F 2.169) : **1**
- Journal of Alloys and Compounds (I.F. : 2.999) : **3**
- Nanoscience and Nanotechnology Letters (I.F. 1.444) : **1**
- Materials Letters (I.F: 2.269). : **3**
- Materials Science in Semiconductor Processing (I.F: 1.955) : **1**
- Advanced Powder Technology (I.F. 2.63): **1**
- Papers published in Asian Solid State Ionics proceeding (Conference papers) : **15**

Representative publications

[1] **M.V. Reddy**, G.V. Subba Rao, B.V. R. Chowdari **Chemical Reviews** **113(2013) 5364-5467 (I.F.: 46.56, ACS). (700 times cited)**

[2] A.S. Hameed, **M.V. Reddy**, M. Nagarathinam, T. Runčevski, R.E. Dinnebier, S. Adams, B.V.R. Chowdari, J.J. Vittal, **Scientific Reports**, **5 (2015) 16270**.

[3] **M.V. Reddy**, G. Prithivi, K.P.Loh, B.V.R. Chowdari **ACS Applied Materials and Interfaces** **6(1) (2014)680-690**

[4] **M. V. Reddy**, A. Sakunthala, S. Selvasekarapandian, B.V.R. Chowdari, **Journal of Physical Chemistry C** **117(18)(2013)9056-9064**.

[5] Nagarathinam, K. Saravanan, E. J. Han Phua, **M. V. Reddy**, B. V. R. Chowdari, J. J. Vittal* **Angewandte Chemie International** **51(24)(2012)5866-5870 (I.F: 13.4. Wiley**

[6] A. Sakunthala, **M. V. Reddy**, S. Selvasekarapandian, B.V.R. Chowdari, P. Christopher Selvin **Energy and Environmental Science** **4(2011)1712-1725 (45 times)**.

[7] **M.V. Reddy**, G.V. Subba Rao, B.V. R. Chowdari, **Journal of Materials Chemistry** **21(2011) 10003-1001 (80 times cited)**

[8] K. Saravanan, P. Balaya, M. V. Reddy, B.V.R. Chowdari and J. J. Vittal **Energy & Environmental Science** **3(2010) 457-464 (160 times cited)**.

[9] M .V. Reddy, G.V. Subba Rao and B. V. R. Chowdari **J. Power Sources** **195(2010)5768-5774 (103 times cited)**.

[10] B. Varghese, **M.V. Reddy**, Z. Yanwu, C.S. Lit, T.C. Hoong, G.V. Subba Rao, B.V.R. Chowdari, A.T.S. Wee, C.T. Lim, C.H. Sow, **Chem. Mater.** **20 (2008) 3360-3367 (360 times cited)**.

[11] **M.V. Reddy**, T. Yu, C.H. Sow, Z.X. Shen, C.T. Lim, G.V. Subba Rao, B.V.R. Chowdari, **Adv. Funct. Mater.**, **17 (2007) 2792-2799 (610 times cited)**.