



**Dr.R.SUBADEVI**  
**ASSISTANT PROFESSOR**

### Contact

Address : Department of Physics  
Alagappa University  
Karaikudi – 630 003  
Tamil Nadu, INDIA

Employee Number : 11408

Date of Birth : 16-07-1973

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### Academic Qualifications: ~~M.A.~~/M.Sc./M.Phil./Ph.D./Physics

M.Sc., M.Phil., Ph.D., (Physics),

### Teaching Experience: 11 Years

### Research Experience: 21 Years

### Additional Responsibilities

1. Member – Teachers' day celebration Gift and Memento committee
2. Department Doctoral Committee Member
3. Member – Board of Studies to Dept. of Physics, Alagappa University.
4. Course Advisor for PG Students
5. Faculty co-ordinator of Fine arts Club of Department of Physics.
6. Ph.D and M.Phil. scholars Selection committee member.
7. Doctoral Committee member in Anna University of Tech., Madurai.
8. Question paper setter in Bharathidasan, Madurai Kamaraj, Alagappa, Periyar, Manonmaniam Sundaranar Universities for PG programme.

9. University Representative for DDE Examinations in various centres of Alagappa University.
10. Event coordinator for ALUTES.

### Areas of Research

**Solid State Ionics,  
Lithium Electrodes and Electrolytes,  
Sodium and Sulfur electrodes,  
Biodiesel.**

### Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	1	4 + 5 (Coguiding)
	M.Phil.	14	3
Project	PG	23	5
	UG / Others	3	Xx

### Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
74	67	Xx	89	03

**Cumulative Impact Factor (as per JCR) : 64.88**  
**h-index : 10**  
**i10 index : 10**  
**Total Citations : 791**

## Funded Research Projects

### Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	--				

### Ongoing Projects (Department Projects- As a Member)

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC-SAP (DRS-III)	2015	2020	Preparation of crystals, Thin films and Battery materials for devices	105
2	DST-FIST Level II	2015	2020	Growth and study of different metal oxide thin films for gas sensors and memory devices	144

### Consultancy Projects

#### As a Member

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	Universities, Colleges, Institutions	2015 (June)	2016 (May)	Consultancies on Characterization	12,99,856
2	Universities, Colleges, Institutions	2016 (June)	2017 (Dec.)	Consultancies on Characterization	7,41,660

### Others

**Note: Budget must be rounded to two decimal places**

## Patents

1. xxx

## Distinctive Achievements / Awards

1. Obtained **Dr.Mohan's Best Teacher Award** from The Foundation of Dr.Mohan, at TamilNadu College of Education, Nainarpuram, Karaikudi on 18.8.2011.
2. Best Paper Award for our paper entitled "Effect of ZrO<sub>2</sub> filler on P(S-MMA) gel blend polymer electrolyte for Lithium polymer battery" -M.Ramachandran, R.Subadevi, M.Sivakumar Presented in the International Conference on Nanoscience and Nanotechnology for Energy Applications (EApp-2016) organized by Centre for Nanoscience and Nanotechnology and Centre of Excellence for Energy Research, Sathyabama University, Chennai-600 119. India during 27-29, June 2016.
3. Best Paper Presentation for our paper entitled "Optimization of S/MnO<sub>2</sub> composite cathode material for lithium sulfur batteries" - G.Radhika, K.Krishnaveni, R.Subadevi, M.Sivakumar Presented in the National Conference on Nanomaterials, NCN-2017 during held at the PG & Research Department of Physics, Arignar Anna Government Arts College, Namakkal - 637 002, Tamil Nadu India during 20-21 July 2017.
4. Best Poster Presentation for our paper entitled "Synthesis and characterization of P2-Na<sub>x</sub>Mn<sub>1/2</sub>Fe<sub>1/2</sub>O<sub>2</sub> iron and manganese based electrode material for sodium ion rechargeable batteries" - P.Arjunan, R.Subadevi, M.Sivakumar Presented in the One day International Seminar on Materials Science and Technology (ISMST-2017) organized by Department of Physics, Mother Teresa Women's University, Kodaikanal, India on 4th Aug 2017.
5. Best Poster Presentation for our paper entitled "Designing of stable layered cathode material for sodium ion batteries using post-transition metals" - P.Arjunan, R.Subadevi, M.Sivakumar Presented in the International Conference on Momentous Role of Nanomaterials in Renewable Energy Devices -2018 (IC MNRE-2018) organized by the Department of Physics, Alagappa University, Karaikudi-630 003 during 1-2, March 2018.

## Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 14

1. Organized National Seminar on Emerging Trends in Advanced Materials held on November 20<sup>th</sup>, 2009 as **Co-ordinator** in the Department of Physics, Ultra College of Engineering and Technology for Women, Madurai.
2. Organized DRDO sponsored **National Seminar on Analytical Techniques in Materials Research**, (NSAT) held on 23<sup>rd</sup> February 2011 as **Co-ordinator** in the Department of Physics, Ultra College of Engineering and Technology for Women, Madurai.

3. **Organized** DRDO sponsored **National Seminar on Functional Materials (FUNMAT-2012)** as **Co-ordinator** on 17<sup>th</sup> February 2012 in the Department of Physics, Ultra College of Engineering and Technology for Women, Madurai.
4. Organized a National Workshop on Characterization Techniques(NWCT-2, 2013)” as a member of Organizing committee in the School of Physics, Alagappa University, Karaikudi held on 24 & 26, March 2013.
5. Organized an “International Workshop on Advanced Materials -2014 (IWAM-2014)” in the School of Physics, Alagappa University, Karaikudi, India held during 20-21 March 2014.
6. Organized Alagappa University Celebrates Themed Nobel Excellence Talks – 2015 ACT NEXT-2015, on 18th March 2016.
7. Organized a “National Seminar on “Recent Advancements in Frontier Areas of Materials Science” as a Member in the Department of Physics, Alagappa University, Karaikudi, India held on 23-24th March, 2016.
8. Organized “Workshop and Activity based Yoga (WAY-2017)” as a **Member** of Centre for Yoga Education, Alagappa University, Karaikudi-630003 on 8<sup>th</sup> February 2017.
9. Organized “Alagappa University Inter Collegiate Yoga Competition 2016-17” as a **Member** of Centre for Yoga Education, Alagappa University, Karaikudi-630003 on 24<sup>th</sup> February 2017.
10. Organized Alagappa University Celebrates Themed Nobel Excellence Talks – 2016 ACT NEXT-2016, as a Convener on 28th April 2017.
11. Organized UGC sponsored “National Conference on Futuristic Materials (NCFM-2017)” as a Organizing Secretary in the Department of Physics, Alagappa University, Karaikudi, India held during 27-28, March 2017.
12. Organized “Business Oriented Hands-on Training on Analytical Instrumentation (HI-BOAT-2017)” as a Member in the Department of Physics, Alagappa University, Karaikudi, India held during 2-3, March 2017.
13. Organized “National Seminar on Advanced Materials Research NSAMR-2017” as a Member in the Department of Physics, Alagappa University, Karaikudi-630003, Tamil Nadu, India on 19.01.2017.
14. Organized a **National Theme Meet on University-Industry Interface 2017 (NTM U2I-2017)** by Industry & Consultancy Cell in association with the Department of Physics, Alagappa University, Karaikudi India in Alagappa University, Karaikudi during 20-21, September 2017.
15. Organized a National Workshop on **Business Oriented Analytical Research and Development 2018 (BOARD-2018)** as a Member, organized by the Department of Physics, Alagappa University, Karaikudi-630 003 during 31<sup>st</sup> Jan’ to 1<sup>st</sup> Feb’ 2018.
16. Organized an **International Conference on Momentous Role of Nanomaterials in Renewable Energy Devices – 2018 (IC MNRE-2018)** during 1-2, March 2018 organized by the Department of Physics, Alagappa University, Karaikudi-630 003 as **Convener**.

## Events Participated (optional)

### Conferences / Seminars / Workshops: 04

1. Participated National Seminar on Green Revolution-Energy Applied Technology (GREAT'11), organized by the Department of Chemistry, Ultra College of Engineering and Technology for Women, Madurai-625 104, Tamil Nadu on March, 4, 2011.
2. Participated National Seminar on Polymers Synthesis, Characterization and Applications (POLYCAP'2011) organized by the Department of Physics, Mannar Thirumalai Naicker (MTN) College, Madurai-625 004 during 21-22, October, 2011.
3. Participated Special Lecture on NDT techniques used in Industries organized by Department of Physics and Industry and Consultancy cell, Alagappa University, Karaikudi, India on 06.03.2017.
4. Participated and Chaired Technical session in "Business Oriented Hands-on Training on Analytical Instrumentation (HI-BOAT-2017)" organized by the Department of Physics, Alagappa University, Karaikudi, India held during 2-3, March 2017.

### Other Training Programs

1. Participated and secured A grade in the 85th Orientation programme organized by UGC Academic Staff College of Bharathidasan University, Tiruchirappalli, Tamil Nadu, India during 05.11.2014 to 03.12.2014.
2. UGC sponsored Refresher Course in Nanoscience at the UGC-Human Resource Development Centre, Bharathidasan University, Khajamalai Campus, Tiruchirappalli, during 20.12.2017 to 09.01.2018.

## Overseas Exposure / Visits

1. One year (2005-06) research works have been carried out in the Department of Chemical Engineering, National Taiwan University, Taipei-106, TAIWAN, ROC, under Professor Nai-Lih, Wu, Chairman, Dept. Chem.Engg., in the field of Solid state Electrolytes for Lithium batteries.

## Membership in

### Professional Bodies

1. Life Member: Indian Society for Technical Education (ISTE)
2. Life Member : Indian Association of Physics Teachers (IAPT)

### **Editorial Board**

1. Xxx
2. xxx

### **Advisory Board**

1. Department Research Committee -Member
2. xxx

### **Academic Bodies (such as Board of Studies etc.,)**

1. Member in Board of Studies – MSc Physics, Alagappa University
2. Question Paper setter of PG Physics,/Applied Physics in Bharathidasan University.
3. Member of Board of Studies – UG Physics / Bharathidasan University
4. Doctoral Committee Member in Anna University College of Engineering, Dindigul.

### **Others**

1. xxx
2. xxx

### **Resource persons in various capacities**

Number of Invited / Special Lectures delivered: 11

### **Others**

1. Articles published in Newspapers / Magazines : xx
2. Products developed : xx
3. No. of PhD Thesis evaluated : 01
4. No. of PhD Public Viva Voce Examination conducted : 01
5. Sequences submitted in GenBank

\*\*Social Interests and Initiatives / Articles in News papers etc can also be included

## List of Publications

1. Authors, (Year), "Title of the Paper", Journal / Conference Name, Publisher, Country, Volume/ Issue, page numbers. (Impact Factor: xx).
  1. A sulfur/PAN/ acetylene black composite prepared by a solution processing technique for lithium–sulfur batteries  
**K.Krishnaveni, R.Subadevi, M.Raja, T.Premkumar, M.Sivakumar**  
*J. Applied Polymer Sci.* 135 (34) (2018) 46598. **IF:1.86**
  2. Polyol technique synthesis of Nb<sub>2</sub>O<sub>5</sub> coating on lithium iron phosphate cathode materials for lithium ion batteries  
**R.Muruganatham, R.Subadevi, M.Sivakumar**  
*Ionics* 24(4) (2018) 989-999. **IF:2.062**
  3. Structural and Morphological Studies on Li<sub>2</sub>Fe<sub>0.5</sub>Mn<sub>0.5</sub>SiO<sub>4</sub>/C Composite Synthesized using PVA for Energy Storage Devices  
**R.Dhanalakshmi, K.Diwakar, P.Rajkumar, R.Subadevi, Wei-Ren Liu and M.Sivakumar**  
*J.Nanoscience and Nanotechnology*, 18(1) (2018) 296-300. **IF: 1.338**
  4. Effect of dispersoid on sulfonium ionic liquid based gel polymer electrolyte for lithium secondary battery  
**R.Muthupradeepa, M.Sivakumar, R.Subadevi, V. Suryanarayanan and Wei-Ren Liu**  
*J.Nanoscience and Nanotechnology*, 18(1) (2018) 215-222. **IF: 1.338**
  5. Synthesis and electrochemical performance of PEG-MnO<sub>2</sub>-sulfur composites cathode materials for Lithium-Sulfur batteries  
**G.Radhika, R.Subadevi, K.Krishnaveni, Wei-Ren Liu and M.Sivakumar**  
*J.Nanoscience and Nanotechnology*, 18(1) (2018) 127-131. **IF: 1.338**
  6. An efficacy of 'nano' in brannerite-type CoV<sub>2</sub>O<sub>6</sub> conversion electrode for lithium batteries  
**M. Sivakumar, P. Prahasini, R. Subadevi, Wei-Ren Liu and Fu-Ming Wang**  
*RSC Advances* 6 (2016) 112813. **IF:3.289** DOI: 10.1039/c6ra20989k
  7. Facile synthesis and characterization of ZrO<sub>2</sub> nanoparticles via modified co-precipitation method  
**M. Ramachandran, R. Subadevi, Wei-Ren Liu and M. Sivakumar**  
*J.Nanoscience and Nanotechnology*, 18(1) (2018) 368-373. **IF: 1.338**
  8. Carbon wrapping effect on Sulfur/ Poly(acrylonitrile) (PAN) composite cathode materials for Lithium Sulfur Batteries  
**K.Krishnaveni, R.Subadevi, G.Radhika, T.Premkumar, M.Raja, Wei-Ren Liu, M.Sivakumar**  
*J.Nanoscience and Nanotechnology*, 18(1) (2018) 121-126. **IF: 1.338**
  9. Sulfonium cation based ionic liquid incorporated polymer electrolyte for lithium ion battery  
**R. Muthupradeepa, M. Sivakumar, R. Subadevi and V. Suryanarayanan**  
*Polymer Bulletin*, 74 (2017) 1677. **IF:1.371**



10. Synthesis and electrochemical characterization of olivine type lithium iron phosphate cathode materials via different techniques  
**R.Muruganantham, R.Subadevi, M.Sivakumar**  
*Ionics*, 22 (2016) 1557. **IF:2.119**
11. A brannerite type cobalt vanadate conversion anode for lithium batteries  
**P. Prahasini, R. Subadevi, Fu-Ming Wang, Wei-Ren Liu, M.Sivakumar**  
*Ionics* 22(2016)347-356. **IF:2.119**
12. A novel attempt for employing brannerite type copper vanadate as an anode for lithium rechargeable batteries  
**P. Prahasini, R. Subadevi, Fu-Ming Wang, Wei-Ren Liu, M. Sivakumar and I.V.B. Maggay**  
*J.Mater. Sci.: Materials in Electronics* 27 (2016) 3292-3297. **IF: 1.798**
13. Enhanced rate performance of multiwalled carbon nanotube encrusted olivine type composite cathode material using simple polyol technique  
**R.Muruganantham, R.Subadevi, M.Sivakumar**  
*J. Power Sources* 300 (2015) 496-506. **IF:6.333**
14. Investigations on the rate performance of LiFePO<sub>4</sub>/ CeO<sub>2</sub> composite materials via polyol technique for rechargeable lithium batteries  
**M. Sivakumar, R. Muruganantham, R. Subadevi**  
*RSC advances* 5(2015)86126-86136. **IF: 3.289**
15. Synthesis of surface modified LiFePO<sub>4</sub> cathode material via polyol technique for high rate Lithium secondary battery  
**M.Sivakumar, R.Muruganantham, R.Subadevi**  
*Appl. Surf. Sci.* 337 (2015) 234-240). **IF:3.150**
16. Studies on graphene enfolded Olivine composite electrode material via Polyol technique for high rate performance in Lithium ion batteries  
**R.Muruganantham, M.Sivakumar, R.Subadevi, S.Ramaprabhu, N-L.Wu**  
*Electronic Materials Letters*, 11 (2015) 841. **IF: 2.057**
17. Comparative studies on biodiesel from rubber seed oil using homogeneous and heterogeneous catalysts  
**R.Meenadevi, R.Subadevi, Samuel Paul Raj, M.Sivakumar**  
*International J. Green Energy* 12 (2015) 1215-1221. **IF:1.601**
18. A facile synthesis and characterization of LiFePO<sub>4</sub>/C using simple binary reactants with oxalic acid by polyol technique and other high temperature  
**R.Muruganantham, M.Sivakumar, R.Subadevi, N-L.Wu**  
*J.Mater. Sci.: Materials in Electronics* 26 (2015) 2095-2106. **IF: 1.798**
19. Structural, morphology and ionic conductivity studies on composite PS-MMA –ZrO<sub>2</sub> polymer electrolyte for lithium polymer battery  
**M.Ramachandran, R.Subadevi, Fu-Ming Wang, Wei-Ren Liu, M.Sivakumar**  
*International J. ChemTech Research* 6 (2014) 1687-1689.
20. Studies On The Effect Of Dispersoid (ZrO<sub>2</sub>) In PVdF-co-HFP Based Gel Polymer Electrolytes  
**M.Sivakumar, R.Subadevi and R.Muthupradeepa**

- AIP Conf. Proc.* 1536, 857-858 (2013).
21. Structural and magnetic properties of  $\text{LiFePO}_4$  cathode materials prepared by polyol technique  
**R.Muruganantham, R.Subadevi, M.Sivakumar**  
*Elixir Magnetic Materials* 50 (2012) 10609-10612
  22. A Polyol Route  $\text{LiFePO}_4$  Cathode Material For Li-Batteries  
**R.Muruganantham, R.Subadevi, M.Sivakumar**  
*Advanced Materials Research* 584 (2012) 341-344.
  23. Synthesis and characterization of Cu Doped  $\text{LiCoO}_2$  Cathode material for Lithium Batteries using Microwave assisted Sol-gel synthesis  
**P.Prahasini, R.Subadevi, M.Sivakumar and Fu-Ming,Wang**  
*Advanced Materials Research* 584 (2012) 345-349.
  24. Development and characterizations of PVdF-PEMA gel polymer electrolytes  
**R.Subadevi, M.Sivakumar, S.Rajendran, H.-C.Wu, N.-L.Wu**  
*Ionics* 8 (2012) 283-289. **IF:2.119**
  25. Studies on the Effect of Anions of various Lithium salts in PEMA Gel Polymer Electrolytes  
**R.Subadevi, M.Sivakumar, S.Rajendran, H.-C.Wu, N.-L.Wu**  
*J.Appl. Polym.Sci.* 119 (2011)1-6. **IF:1.64**
  26. Compositional effect of PVdF-PEMA blend gel polymer electrolytes for Lithium Polymer Batteries  
**M.Sivakumar, R.Subadevi, S.Rajendran, H.-C.Wu, N.-L.Wu**  
*Euro.Polym.J.* 43 (2007) 4466-4473. **IF:3.485.**
  27. Electrochemical Investigations on the effect of Dispersoid in PVA based solid polymer electrolytes  
**S.Rajendran, M.Sivakumar, R.Subadevi, N.-L.Wu, J.-Y.Lee**  
*J.Appl.Polym.Sci.* 103 (2007) 3950-3956. **IF:1.64**
  28. Electrochemical studies on [(1-x)PVA-xPMMA] solid polymer blend electrolytes complexed with  $\text{LiBF}_4$   
**M.Sivakumar, R.Subadevi, S.Rajendran, N.-L.Wu, J.-Y.Lee**  
*Materials Chemistry and Physics* 97 (2006) 330-336. **IF:2.101**
  29. Li-ion conduction of plasticized PVA solid polymer electrolytes complexed with various lithium salts  
**S.Rajendran, M.Sivakumar, R.Subadevi**  
*Solid State Ionics* 167 (2004) 335-339. **IF:2.38.**
  30. Characterization of PVA-PVdF based Solid Polymer Blend Electrolytes  
**S.Rajendran, M.Sivakumar, R.Subadevi, M.Nirmala**  
*Physica B:* 348 (2004) 73-78. **IF:1.319**
  31. Investigations on the effect of various plasticizers in PVA-PMMA solid polymer blend electrolytes  
**S.Rajendran, M.Sivakumar, R.Subadevi**  
*Materials Letters* 58 (2004) 641-649. **IF:2.437**

32. XRD, FTIR, Impedance and Thermal Studies of PVA-PMMA solid polymer blend electrolyte  
**S.Rajendran, M.Sivakumar, R.Subadevi, J.Merciline Leonora**  
*Bull.Electrochem.* 20 (2004) 87-92. **IF:0.25.**
33. Studies on the effect of salt concentration in PVA based solid polymer electrolytes  
**S.Rajendran, M.Sivakumar, R.Subadevi**  
*J.Power Sources* 124 (2003) 225-230. **IF:6.333.**
34. Studies on the effect of plasticizers in Poly(vinyl alcohol) based hybrid solid polymer electrolytes  
**S.Rajendran, M.Sivakumar, R.Subadevi**  
*J.Applied Polym.Sci.* 90 (2003) 2794-2800. **IF:1.64**
35. Bio-Diesel from palm oil: The clean and green fuel for diesel  
**R.Meenadevi, Samuel Paul Raj, R.Subadevi, M.Sivakumar**  
*Pro.8<sup>th</sup> Asian Academic Network for Environmental Safety and Waste Management (AANESWM)*, December 10-13, 2006, Anna University, Chennai, India, pp.439-444.
36. **Role of precipitation agent on ZrO<sub>2</sub> nano particle synthesis using co-precipitation technique**  
**M.Ramachandran, R.Subadevi, M.Sivakumar**  
*Int. J. for Research in Sci., Engg. and Tech.* 3 (2016) 41-44. ISSN:2394-739X
37. **Synthesis and studies on lithium iron orthosilicate cathode materials via modified sol-gel method**  
**P.Rajkumar, K.Diwakar, R.Dhanalakshmi, R.Subadevi, MSivakumar**  
*Int. J. for Research in Sci., Engg. and Tech.* 3 (2016) 36-40. ISSN:2394-739X
38. Structural and morphological investigations of sulfur based cathode for lithium sulfur batteries  
**G.Radhika, K.Krishnaveni, R.Subadevi, MSivakumar**  
*Int. J. for Research in Sci., Engg. and Tech.* 3 (2016) 28-31. ISSN:2394-739X
39. Structural investigation of heat-treated Li<sub>2</sub>FeSiO<sub>4</sub> cathode material preparation  
**V.Meenakshi, P.Rajkumar, K.Diwakar, R.Subadevi, MSivakumar**  
*Int. J. for Research in Sci., Engg. and Tech.* 3 (2016) 10-12. ISSN:2394-739X
40. A simple approach to prepare Sulfur/PVdF composite for lithium/sulfur batteries  
**K.Krishnaveni, G.Radhika, R.Subadevi, MSivakumar**  
*Int. J. for Research in Sci., Engg. and Tech.* 3 (2016) 48-51. ISSN:2394-739X
41. Role of cationic surfactant CTAB on lithium iron orthosilicate  
**K.Diwakar, P.Rajkumar, R.Dhanalakshmi, R.Subadevi, MSivakumar**  
*Int. J. for Research in Sci., Engg. and Tech.* 3 (2016) 23-26. ISSN:2394-739X
42. Studies on Chemical and Physical Properties of LiFeMPO<sub>4</sub> (M=Cu, La) by Polyol Route  
**R.Muruganatham, M.Sivakumar, R.Subadevi, W.R.Liu**  
*World Journal of Applied Chemistry* 2 (2017) 7-12. DOI: 10.11648/j.wjac.20170201.12
43. Synthesis and structural analysis of NaFePO<sub>4</sub> nanocomposite for sodium ion batteries  
**V. Priyanka, R.Subadevi, M.Sivakumar\***  
*International Research Journal of Engineering and Technology (IRJET)*  
*One Day International Seminar on Materials Science & Technology (ISMST 2017)*

Volume 4, Special Issue 09, Sep.-2017, Page: 49-52. e-ISSN : 2395-0056; p-ISSN : 2395-0072

44. Structural and morphological optimizations of  $\text{Li}_2\text{FeSiO}_4$  cathode material for next generation LIBs

**V.Meenakshi, R.Dhanalakshmi, P.Rajkumar, R.Subadevi, M.Sivakumar\***

*International Research Journal of Engineering and Technology (IRJET)*

*One Day International Seminar on Materials Science & Technology (ISMST 2017)*

Volume 4, Special Issue 09, Sep.-2017, Page: 280-283. e-ISSN : 2395-0056; p-ISSN : 2395-0072

45. Preparation and physical characterization of Sulfur/Carbon Black composite cathode material for Li-S battery

**P.Rajkumar, K.Diwakar, R.Subadevi, M.Sivakumar**

*International Research Journal of Engineering and Technology (IRJET)*

*One Day International Seminar on Materials Science & Technology (ISMST 2017)*

Volume 4, Special Issue 09, Sep.-2017, Page: 15-18. e-ISSN : 2395-0056; p-ISSN : 2395-0072

46. Synthesis and characterization of  $\text{P2-Na}_x[\text{Fe}_{1/2}\text{Mn}_{1/2}]\text{O}_2$  iron and manganese based electrode material for sodium ion rechargeable batteries

**P.Arjunan, R.Subadevi, M.Sivakumar**

*International Research Journal of Engineering and Technology (IRJET)*

*One Day International Seminar on Materials Science & Technology (ISMST 2017)*

Volume 4, Special Issue 09, Sep.-2017, Page: 58-61. e-ISSN : 2395-0056; p-ISSN : 2395-0072

47. Effect of different salts on P(VdC-co-AN) gel polymer electrolytes for Li-Rechargeable batteries

**M.Shanthi, M.Ramachandran, S.Rajendran, R.Subadevi, M.Sivakumar\***

*International Research Journal of Engineering and Technology (IRJET)*

*One Day International Seminar on Materials Science & Technology (ISMST 2017)*

Volume 4, Special Issue 09, Sep.-2017, Page: 302-307. e-ISSN : 2395-0056; p-ISSN : 2395-0072

48. Effect of surfactant on synthesis and characterization of  $\text{CeO}_2$  based P(S-MMA) gel polymer electrolyte for lithium polymer battery

**M.Ramachandran, M.Shanthi, R.Subadevi, M.Sivakumar\***

*International Research Journal of Engineering and Technology (IRJET)*

*One Day International Seminar on Materials Science & Technology (ISMST 2017)*

Volume 4, Special Issue 09, Sep.-2017, Page: 322-326. e-ISSN : 2395-0056; p-ISSN : 2395-0072

49. Role of surfactant on synthesis and characterization of cerium oxide ( $\text{CeO}_2$ ) nano particles by modified coprecipitation method

**M.Ramachandran, M.Shanthi, R.Subadevi, M.Sivakumar\***

*International Research Journal of Engineering and Technology (IRJET)*

*One Day International Seminar on Materials Science & Technology (ISMST 2017)*

- Volume 4, Special Issue 09, Sep.-2017, Page: 31-35. e-ISSN : 2395-0056; p-ISSN : 2395-0072
50. Optimization of lithium iron orthosilicate electrodes synthesized via various methods  
**M.Kouthaman, R.Dhanalakshmi, R.Subadevi, M.Sivakumar\***  
*International Research Journal of Engineering and Technology (IRJET)*  
*One Day International Seminar on Materials Science & Technology (ISMST 2017)*  
Volume 4, Special Issue 09, Sep.-2017, Page: 27-30. e-ISSN : 2395-0056; p-ISSN : 2395-0072
51. Studies on sulfur based ternary composite cathode material for lithium sulfur batteries  
**K.Krishnaveni, G.Radhika, R.Subadevi, M.Sivakumar\***  
*International Research Journal of Engineering and Technology (IRJET)*  
*One Day International Seminar on Materials Science & Technology (ISMST 2017)*  
Volume 4, Special Issue 09, Sep.-2017, Page: 251-255. e-ISSN : 2395-0056; p-ISSN : 2395-0072
52. Optimization of lithium concentration in lithium iron orthosilicate via polyol route  
**K.Diwakar, R.Dhanalakshmi, P.Rajkumar, R.Subadevi, M.Sivakumar**  
*International Research Journal of Engineering and Technology (IRJET)*  
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