



Dr.R.SUBADEVI
ASSISTANT PROFESSOR

Contact

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Academic Qualifications

Degree	Institution	Year	Branch	Class
PhD	Alagappa University	2009	PHYSICS	FIRST
MPhil	Alagappa University	1996	PHYSICS	FIRST
MSc	Govt. Arts College, Bharathiar University	1995	PHYSICS	FIRST

Teaching Experience

Total Teaching Experience : 17 Years

Position	Institution	Duration
Assistant Professor	Alagappa University	24.05.2012 – Till Date
Senior Lecturer and Head	Department of Physics at ULTRA College of Engg. & Tech. for Women, Madurai-104	02.09.2009 to 23.05.2012
Lecturer	Dept. of Electronics and Comm. at Dr.Umayal Ramanathan College for Women, Karaikudi	July 2009 to August 2009
Teaching Assistant	Alagappa University	July 2002 to October 2004
Lecturer	Sri Nagalakshmi Ammal College of Sciences, Pappunayakkanpatty, Madurai District	June 1998 to September 1998

PDF/ Visiting Professor : Abroad

Position	Institution	Duration

Research Experience

Total Research Experience : 11 Years

Position	Institution / University	Duration
Assistant Professor	Alagappa University	24.05.2012 – Till Date

Academic and Additional Responsibilities

S.No	Position	University Bodies	Period	
			From	To
1.	Member	IQAC Governing council, Alagappa University	Nov'2022	Till Date
2.	Member	Board of Studies for UG programme, Department of Physics, Bharathidasan University, Tiruchirappalli.	2019	2022
3.	Coordinator	Cultural Club of Department of Physics, Alagappa University	2017	2023
4.	Library In-charge	Department of Physics, Alagappa University	July 2017	Till date
5.	Member	Board of Studies in the Dept. Physics, Alagappa University	2012	Till date

Areas of Research

- Solid State Ionics
- Energy Storage Materials
- Bio-diesel

Patents Filed

Research Supervision / Guidance

Program of Study	Completed	Ongoing
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Research	PDF	-	-
	Ph.D	7	4
	M.Phil	18	-
Project	PG	48	6
	UG / Others	-	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
153	124	-	132	5

Cumulative Impact Factor (as per JCR) :403.6

h-index :23

i10 index :47

Total Citations :2215

Publications

Thesis Evaluated : 3

Viva voce Examiner : 3

Funded Research Projects

Ongoing Projects:

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

1	MHRD, RUSA 2.0, Govt. of India	15 September 2021 to till date	Theme Based Research Project under RUSA 2.0 Development of active electrodes for Lithium-Sulfur Batteries and Supercapacitors	10
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Completed Projects:

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

Other Fund Received as Research Mentor:

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

Consultancy Projects:

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

Others:

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

Distinctive Achievements / Awards

- **Prominent Researcher Award** - In recognition of the contribution made towards Excellence in Research at Alagappa University on 05.09.2022.
- **Vallal Alagappan Research Recognition Award 2020** towards the contribution in research outcome of the University in the form of "h" index on 13.01.2021.
- **Dr.Mohan's Best Teacher Award** from The Foundation of Dr.Mohan, at TamilNadu College of Education, Nainarpuram, Karaikudi on 18.8.2011.
- **Best Paper Award** for our paper entitled "*Effect of ZrO₂ filler on P(S-MMA) gel blend polymer electrolyte for Lithium polymer battery*"
- **Best Paper Presentation** for our paper entitled "*Optimization of S/MnO₂ composite cathode material for lithium sulfur batteries*"
- **Best Poster Presentation** for our paper entitled "*Synthesis and characterization of P2-NaxMn_{1/2}Fe_{1/2}O₂ iron and manganese based electrode material for sodium ion rechargeable batteries*"
- **Best Poster Presentation** for our paper entitled "*Designing of stable layered cathode material for sodium ion batteries using post-transition metals*"
- **Best Oral Presentation** for our paper entitled "*Zn substituted layered P2-type cathode material with improved cell voltage profile for sodium ion battery*"
- **Best Paper Award** for our paper entitled "O3 type Layered NaMnNiCuO₂ cathode material for rechargeable sodium batteries"
- **Best Paper Award (ORAL)** for our paper entitled "Investigation of Fe₂O₃/ZnO nanocomposite as electrode material for redox flow battery application"

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 9

Position	Programme	Duration	Institution
Convener	International Conference on Momentous Role of Nanomaterials in Renewable Energy Devices – 2018 (IC MNRE-2018)	1-2, March 2018	Alagappa University
Convener	Business Oriented Analytical Research and Development 2018 (BOARD-2018)	31 st Jan' to 1 st Feb' 2018	Alagappa University
Co-convener	Teacher's day celebration	05.09.2018	Alagappa University
Convener	ACT NEXT 2016	28.04.2017	Alagappa University

Organizing Secretary	National Conference on Futuristic Materials (NCFM-2017)”	27-28, March 2017	Alagappa University
Convener	International Workshop on Advanced Materials - 2014 (IWAM-2014)	20-21 March 2014	Alagappa University
Co-ordinator	National Seminar on Functional Materials (FUNMAT-2012)	17th February 2012	Alagappa University
Co-ordinator	National Seminar on Analytical Techniques in Materials Research, (NSAT)	23rd February 2011	Alagappa University
Co-ordinator	National Seminar on Emerging Trends in Advanced Materials	20th November 2009	Alagappa University

Events Participated

Number of Conferences / Seminars / Workshops: 22

Overseas Exposure / Visits

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

Membership

Professional Bodies

1. Life member in Indian Society for Technical Education (ISTE).
2. Life member in Indian Physics Association
3. Life Active Member- Society for Advancement of Electrochemical Science and Technology (SAEST)
4. Fellow Member - Bose Science Society

Advisory Board

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2012- Till	MSc Physics BoS – Alagappa University	Member

now		
2012- Till now	MPhil. Physics BoS - Alagappa University	Member
2012- Till now	Ph.D Physics BoS - Alagappa University	Member

Academic Bodies in Other Institutes/ Universities

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2019-2022	UG physics BoS - Bharathidasan University	Member

Ph.D. Thesis Guided

- No. of PhD Thesis evaluated : 3
- No. of PhD Public Viva Voce Examination conducted : 7

S. No	Name of the Scholar	Title of the Thesis	Year of Completion
1.	M.Shanthi (Reg.No.1286)	PREPARATION AND CHARACTERIZATION OF SOLID AND GEL POLYMER ELECTROLYTES BASED ON POLY(VINYLDENE CHLORIDE-co-ACRYLONITRILE)	30.07.2018
2.	P.Rajkumar (Reg.No.: 1244)	A PURSUIT FOR VARIOUS CARBONACEOUS MATERIAL BASED SULFUR COMPOSITE ELECTRODES EMPLOYED IN HIGH PERFORMANCE LITHIUM-SULFUR BATTERIES	09.11.2020
3.	V.Priyanka (As Co-Guide) (Reg.No.1274)	A COMPREHENSIVE EXPLORATION ON MARICITE AND OLIVINE POLYMORPHS IN PHOSPHATE BASED ELECTRODES FOR EMERGING SODIUM BATTERIES	16.09.2021
4.	P.Arjunan (As Co-Guide) (Reg.No.1402)	AN INTENSE INVESTIGATION ON LAYERED ELECTRODES AND SUPERIONIC CONDUCTING POLYMER SEPARATOR WITH ENRICHED ELECTROCHEMICAL PERFORMANCES FOR HIGH ENERGY DENSITY SODIUM BATTERY APPLICATION	16.09.2021

5.	C.Kalaiselvi (Reg.No.1115)	A VENTURE SYNTHESIS ON SEPIOLITE CLAY MINERAL BASED CATHODES FOR EVOLVING LITHIUM-SULFUR BATTERIES	17.09.2021
6.	M.Kouthaman (As Co-Guide) (Reg.No.R20161540)	AN EXTENSIVE INVESTIGATION ON LAYERED O ₃ -TYPE SODIUM TRANSITION METAL OXIDE BASED CATHODE MATERIALS FOR EMERGING SODIUM BATTERY APPLICATION	18.04.2022
7.	K.Kannan (As Co-Guide) (Reg.No.R20161537)	COMPREHENSIVE ANALYSIS ON Ti-BASED LAYERED O ₃ AND P ₂ TYPE ANODE MATERIAL FOR EVOLVING SODIUM BATTERY	01.08.2022

List of Research Articles / Recent Publications

S. No	Authors/Title of the paper/Journal	Impact Factor
1.	Sulfur encapsulated carbon templet as a structured cathode material for secondary sodium-sulfur battery Premnaht Jeyaraj Janshirani ^a , Subadevi Rengapillai ^{a,*} , Soundarrajan Elumalai ^b , Raghu Subashchandrabose ^b , and Sivakumar Marimuthu ^{a,*} Ionics (Accepted for Publication)	2.912
2.	Eco-friendly production of carbon electrode from biomass for high performance Lithium and Zinc ion capacitors with hybrid energy storage characteristics P.Rajkumar, V.Thirumal, G.Radhika, RM.Gnanamuthu, R.Subadevi, M.Sivakumar, Kisoo Yoo, Jinho Kim Materials Letters	3.0
3.	Porous carbon derived from bacteria and yeast: the potential electrode material for the development of symmetric high energy density supercapacitors K.Krishnaveni, V.Thirumal, G.Radhika, P.Rajkumar, R.Subadevi, M.Sivakumar, Kisoo Yoo, Jinho Kim Journal of Materials Science: Materials in Electronics	2.8
4.	NiO/ZnO Composite Derived Metal-Organic Framework as Advanced Electrode Materials for Zinc Hybrid Redox Flow Battery L.Priya, J.J.Premnaht, R.Subadevi*, M.Sivakumar* ChemPhysChem (In Print)	3.52

5.	Investigation on two-dimensional molybdenum oxide-graphitic carbon nitride (MoO ₃ -g-C ₃ N ₄) heterostructures based hybrid electrodes for the fabrication of high energy density solid state supercapacitors S.S.Pradeepa, K.Sutharathani, R.Subadevi*, Wei-Ren Liu, M.Sivakumar*	5.7
6.	An impact of sea sponge-derived hard carbon with the symbiosis of sodium ion battery and biomedical applications T.Meenatchia, R.Subadevia,*, P.Kumarb, S.Raghuc, Wei-Ren Liud,*, M.Sivakumar a,* Journal of Taiwan Institute of Chemical Engineers (Published online)	5.7
7.	Dual metal (Fe and Mg) substituted layered titanium-based P2 and O3-type negative electrodes for rechargeable sodium batteries K.Kannan, M.Kouthaman, R.Suba Devi*, M.Sivakumar* Advanced Powder Technology	4.969
8.	Structural and Electrochemical Properties of Musa acuminata Fiber Derived Hard Carbon as Anode of Sodium-Ion Batteries. Meenatchi Thenappan ¹ , Kouthaman Mathiyalagan, Mozaffar Abdollahifar ² , Subadevi Rengapillai * and Sivakumar Marimuthu* Energies	3.252
9.	Exploration of Magnetic Sesquioxide Nanocomposite as a Potential Electrode Material for the Fabrication of High Energy density Asymmetric Supercapacitors S.S. Pradeepa, K. Sutharthani, R. Subadevi*, M. Sivakumar* Journal of Electroanalytical Chemistry	4.97
10.	10. Hard Carbon Reprising Porous Morphology Derived from Coconut Sheath for Sodium-ion Battery Meenatchi Thenappan, Subadevi Rengapillai* and Sivakumar Marimuthu* Energies	3.252
11.	Study on the effect of co-substitution of transition metals on O3-type Na-Mn-Ni-O cathode materials for promising sodium-ion batteries M.Kouthaman, K.Kannan, R.Subadevi*, M.Sivakumar* Journal of the Taiwan Institute of Chemical Engineers	5.477
12.	Turning trash to treasure: Reusable glucose kit as a cell using ZnO derived from Metal organic framework (MOF) electrode for redox flow	3.252

	<p>battery</p> <p>Priya Lakshmanan 1, Subadevi Rengapillai², Sivakumar Marimuthu^{2*}, and Suryanarayanan Vembu ²,</p> <p>Energies</p>	
13.	<p>A reign of bio-mass derived carbon with the synergy of energy storage and biomedical applications</p> <p>Rajkumar Palanisamy a,f,i , Diwakar Karuppiah a , Subadevi Rengapillai a,* , Mozaffar Abdollahifar b,c,d , Gnanamuthu Ramasamy e , Fu-Ming Wang f , Wei-Ren Liu g , Kumar Ponnuchamy h , Joongpyo Shim i , Sivakumar Marimuthu a,*</p> <p>Journal of Energy Storage</p>	8.907
14.	<p>High-performance asymmetric supercapacitor fabricated with a novel MoS₂/Fe₂O₃/graphene composite electrode</p> <p>RajkumarPalanisamya DiwakarKaruppiaha SethuramanVenkatesana SaravananMania MadhanKuppusamya SenthilkumaranMarimuthua AravinthKaruppanana RadhikaGovindarajub SivakumarMarimuthuc SubadeviRengapillaic MozafarAbdollahifarde AswinKumarAnbalaganf RamasamyPerumalsamya</p> <p>Colloid and Interface Science Communications</p>	5.633
15.	<p>A combined first principles and experimental study on Al-doped Na₃V₂(PO₄)₂F₃ cathode for rechargeable Na batteries</p> <p>Shu-HanZhuanga Chun-ChuenYangb MingtaoZhengcd SubadeviRengapillaie Sivakumar Marimuthue Yu-Shen Chiangf Bor KaeChangf Chia-HungHuanggh Wei-RenLiua</p> <p>Surface and Coatings Technology</p>	4.865
16.	<p>Layered O₃-type Na₉/10Cr₁/2Fe₁/2O₂ as new cathode for rechargeable sodium-ion battery</p> <p>M.Kouthaman, K.Kannan, P.Arjunan, R.Subadevi*, M.Sivakumar*</p> <p>Colloids & Surfaces A: Physicochemical and Engineering Aspects</p>	5.518
17.	<p>Influence of cerium oxide as a dispersoid in blend poly(styrene-co-methylmethacrylate) electrolyte for lithium ion battery</p> <p>M.Ramachandran, R.Subadevi, P.Rajkumar, R.Muthupradeepa, M.Sivakumar*</p> <p>Polymer International</p>	2.99

18.	Effect of tungsten and carbon in germanium oxide as a high-performance electrode for energy storage application K.Diwakar, P.Rajkumar, R.Subadevi*, P.Arjunan, M.Sivakumar* ACS- Applied Energy Materials	6.959
19.	Enriched energy storage capability and bi-functional ability of boron doped graphene as efficient electrode for supercapacitors and lithium sulfur batteries P.Rajkumara, K.Diwakara, M.Ramachandran,a, A.Mozaffarc, RM.Gnanamuthud, R.Subadevia*, M.Sivakumara* Journal of Materials Science: Materials in Electronics	2.779
20.	Enhanced enactment of graphene amalgamated sodium cobalt phosphate composite electrode material in sodium-ion battery G.Savithiri, V.Priyanka, R.Subadevi*, Bijoy Kumar Das, M.Sivakumar* Journal of the Taiwan Institute of Chemical Engineers	5.477
21.	Cobalt substituted Layered O3 and P2-type Na-Ti-Ni-Co-O anode materials for emerging Sodium-ion Batteries K. Kannan, M. Kouthaman, P. Arjunan, R. Subadevi*, M. Sivakumar* Journal of Industrial and Engineering Chemistry	6.76
22.	A Facile One-Pot hydrothermal synthesis of Zn, Mn co-doped NiCo ₂ O ₄ as an efficient electrode for Supercapacitor applications S.S. Pradeepa, P. Rajkumar, K. Diwakar, K. Sutharthani, R. Subadevi*, M. Sivakumar* Chemistry Select	2.109
23.	Influence of the concentration of capping agent on synthesizing and analyses of Ceria nano-filler using Modified co-precipitation technique M.Ramachandran, R.Subadevi, P.Rajkumar, R.Muthupradeepa, R.Yuvakkumar, M.Sivakumar*. International Journal Applied Ceramic Technology	2.328
24.	Electrochemical Analyses Of ZrO ₂ dispersoid incorporated Poly (styrene-methyl methacrylate) blend gel electrolytes for Lithium-ion Battery M.Ramachandran, R.Subadevi, P.Rajkumar, R.Muthupradeepa, M.Sivakumar* J.Applied Polymer Science	3.125

25.	Fabrication of Li(Ni–Zn–Mn)O ₂ layered cathode material for energy conversion and storage performance in lithium-ion batteries S.Kumaragurua, C.Senthilb,c, T.Kesavanc, M.Vivekananthac, R.Subadevid, M.Sivakumard, Chang Woo Leeb, RM.Gnanamuthua,* Solid State Sciences	3.752
26.	A study on High rate and high stable Sodium vanadium phosphate electrode for Sodium Battery Alongside air exposure treatment K Diwakar, P Rajkumar, R Suba Devi*, P Arjunan, M Sivakumar* Journal of Materials Science: Materials in Electronics	2.779
27.	Gradual development of maricite NaMnPO ₄ with the influence of diols chain length in polyol process of surpassed sodium intercalation V.Priyanka, G.Savithiri, R.Subadevi*, M.Sivakumar* ACS Industrial & Engineering Chemistry Research	4.326
28.	Improved electrochemical properties of P2 type layer electrode through extended diffusion path by using post-transition metal doping P.Arjunan, M.Kouthaman, K.Kannan, K.Diwakar, R.Subadevi*, M.Sivakumar* Materials Characterization	4.537
29.	Upshot of concentration of zirconium (iv) oxynitrate hexa hydrate on preparation and analyses of zirconium oxide (ZrO ₂) nanoparticles by modified co-precipitation method M.Ramachandran, R.Subadevi, P.Rajkumar, R.Muthupradeepa, R.Yuvakkumar, M.Sivakumar* Journal of Nanoscience and Nanotechnology	1.354
30.	Electrospun assisted antimony phosphate (SbPO ₄) anode for elevated performance in sodium and lithium ion charge storage application K. Diwakar, P. Rajkumar, R. Subadevi*, P. Arjunan, M. Sivakumar* Journal of Alloys and Compounds	6.371
31.	Improved tin oxide nanosphere material via co-precipitation method as an anode for energy storage application in Li-ion batteries S. Kumaraguru ¹ , S. Raghu ² , P. Rajkumar ³ , R. Subadevi ³ , M. Sivakumar ³ , Chang Woo Lee ⁴ , RM. Gnanamuthu ¹ Ionics	2.368
32.	Study on Efficient Electrode from Electronic waste renewed carbon material for sodium battery applications	7.968

	P.Arjunan, M.Kouthaman, K.Kannan, K.Diwakar, V.Priyanka, R.Subadevi*, M.Sivakumar* Journal of Environmental Chemical Engineering	
33.	Carbon scaffold VPO ₄ as an anode for Lithium and sodium ion batteries K.Diwakar, P.Rajkumar, R.Subadevi*, P.Arjunan, M. Sivakumar* Journal of Solid State Electrochemistry	2.647
34.	Optimization of Prismatic Type Layered Electrode Materials for High Performance Sodium Battery P.Arjunan, J.Prashanth, K.Diwakar, M.Kouthaman, R.Subadevi*, M.Sivakumar* International Journal of Energy Research	5.164
35.	Probe on Hard Carbon electrode derived from Orange Peel for energy storage application T.Meenatchi ¹ , V.Priyanka ¹ , R.Subadevi ^{1,*} , Wei-Ren Liu ² , Chia-Hung Huang ³ , M.Sivakumar ^{1,*} Carbon Letters	3.117
36.	Exploration of the Effect of Transition Metal on the Divergence of Orthorhombic Sodium Orthophosphate (NaXPO ₄) Via Polyol Process Venkatachalam, Priyanka; Palanisamy, Rajkumar; Rengapillai, Subadevi*; Ganesan, Savithiri; Marimuthu, Sivakumar* ACS Applied Energy Materials	6.959
37.	Enhancing structural stability of layered O ₃ -type Na-Mn-Ni-Cu-O cathode material through copper substitution for sodium batteries M. Kouthamana, P. Arjunana, K. Kannana, V. Priyankaa, R. Subadevia*, V. Kumaranb, RM. Gnanamuthub, M. Sivakumara,* Journal of the Taiwan Institute of Chemical Engineers	5.477
38.	Iron Substituted Layered P ₂ -type Na _{1/2} Ti ₆ /10Ni ₃ /10Fe ₁ /10O ₂ as innovative Anode Material for Rechargeable Sodium Batteries K.Kannana, M.Kouthamana, P.Arjunana, V.Priyankaa, R.Subadevia*, L.Kumaresanb, M.Sivakumara,* Inorganic Chemistry Communications	3.428
39.	Titanium deputized layered O ₃ -type NaFe ₉ /20Cr ₉ /20Ti ₁ /10O ₂ cathode material for Sodium-ion batteries M.Kouthaman, P.Arjunan, K.Kannan, V.Kumaran, R.Subadevi*,	3.574

	M.Sivakumar* Materials Letters	
40.	Influence of nickel strike as adhesive layer on electrodeposited Zn-Co-Ni alloy and their performance in metal-finishing Vaibhav Namdev Kalea , S. Kumaragurua , G. Saravananb , A. Syed Jalaluddeena , P. Rajkumarc , R. Subadevic , M. Sivakumarc , RM. Gnanamuthua, * Materials Today: Proceedings	1.46
41.	Physical and electrochemical chattels of phosphonium ionic liquid based solid and gel-polymer electrolyte for lithium secondary batteries R.Muthupradeepa, M.Sivakumar*, R.Subadevi, V.Suryanarayanan, M.Ramachandran, P.Rajkumar, R.Yuvakkumar J.Materials Science: Materials in Electronics	2.779
42.	Manganese and graphene oxide composite as highly effective sulfur host for enlightening electrochemical kinetics of lithium-sulfur batteries G.Radhika, P.Rajkumar, R.Subadevi, M.Sivakumar* International Journal of Energy Research	5.164
43.	Exploration on sulfur/acid treatment of sepiolite composite positive electrode material for lithium-sulfur battery C.Kalaiselvi, K.Krishnaveni, V.Priyanka, P.Rajkumar, R.Subadevi*, M.Sivakumar* Ceramics International	5.532
44.	Clout of carbon in Polyacrylonitrile/Sulfur composite cathode via solution processing technique for lithium-sulfur batteries K.Krishnaveni, R.Subadevi, M.Sivakumar* Journal of Porous Materials	2.523
45.	Effect of TiO2/carbon black in sulfur based composite cathode for lithium sulfur batteries G.Radhika, P.Rajkumar, R.Subadevi, M.Sivakumar* Ionics	2.961
46.	An Emerging Electrochemically Active Maricite NaMnPO4 as Cathode Material at Elevated Temperature for Sodium-Ion Batteries V.Priyanka, G.Savithiri, R.Subadevi*, M.Sivakumar* Applied Nanoscience	3.869

47.	Graphene Sheets Encased Silica/Sulfur Composite Cathode for Improved Cyclability of Lithium-Sulfur Batteries P.Rajkumar, K.Diwakar, R.Subadevi*, RM.Gnanamuthu, Fu-Ming Wang, Wei-Ren Liu, M.Sivakumar* Journal of Solid State Electrochemistry	2.747
48.	Tweaking the Electrochemical Activity of Maricite NaMnPO ₄ in Sodium Batteries using Different Manganese Precursors via Polyol Method V.Priyanka, G.Savithiri, P.Rajkumar, T.Meenatchi, R.Subadevi*, M.Sivakumar* Journal of Solid State Chemistry	3.656
49.	Novel Layered O ₃ -NaFe _{0.45} Co _{0.45} Ti _{0.1} O ₂ cathode material for Sodium Batteries M.Kouthaman, K.Kannan, P.Arjunan, T.Meenatchi, R.Subadevi*, M.Sivakumar* Materials Letters	3.574
50.	An Imprint of Sulfur/SiO ₂ in N-doped Graphene as Positive Electrode for Lithium-Sulfur Rechargeable Batteries P.Rajkumar, K.Diwakar, K.Krishnaveni, G.Radhika, R.Subadevi*, RM.Gnanamuthu, Fu-Ming Wang, M.Sivakumar* Applied Physics A,	2.983
51.	Titanium based Layered O ₃ -NaTi _{7/10} Ni _{3/20} Mg _{3/20} O ₂ anode material for Sodium ion batteries K.Kannan, M.Kouthaman, P.Arjunan, R.Subadevi*, M.Sivakumar* Materials Letters,	3.574
52.	Nitrogen doped Graphene Sheets Encapsulated Sulfur Binary Composite as Cathode for Lithium-Sulfur Battery Applications P.Rajkumar, K.Diwakar, K.Krishnaveni, G.Radhika, R.Subadevi*, RM.Gnanamuthu, Fu-Ming Wang, M.Sivakumar* Journal of Materials Engineering and Performance,	2.036
53.	Stable Prismatic Layer Structured Cathode Material via Cation Mixing for Sodium Ion Battery P.Arjunan, M.Kouthaman, K.Kannan, K.Diwakar, R.Subadevi*, S. Raghu, M.Sivakumar* Ionics	2.961

54.	Cobalt doped layered Lithium nickel oxide as a 3 in 1 electrode for Lithium-ion, Sodium-ion and supercapacitor applications K.Diwakar, P.Rajkumar, P.Arjunan, R.Subadevi*, M.Sivakumar* International Journal of Energy Research,	5.164
55.	Sepiolite Enfolded Sulfur/ ZnO Binary Composite Cathode Material for Li-S Battery C.Kalaiselvi, R.Subadevi*, Fu-Ming Wang, M.Sivakumar* Frontiers in Materials	3.985
56.	Enhanced Electrochemical Performance of MWCNT-intercalated Silica/Sulfur Composite Cathode for Rechargeable Lithium-Sulfur Batteries P Rajkumar, K Diwakar, R Subadevi*, R Gnanamuthu, Mozaffar Abdollahifar, Fu-Ming Wang, M Sivakumar* Journal of Minerals	2.779
57.	Effect of Polyaniline on Sulfur/Sepiolite Composite Cathode for Lithium-Sulfur Batteries C. Kalaiselvi ¹ , V.Priyanka ¹ , R. Subadevi ^{1,*} , Wei-Ren Liu ² , Chia-Hung Huang ³ and M.Sivakumar ^{1,*} Polymers,	4.967
58.	Graphene oxide-crowned poly(acrylonitrile)/sulfur as a lithium–sulfur battery cathode: performance and characterization K.Krishnaveni, R.Subadevi, M.Sivakumar* SN Applied Sciences	2.11
59.	High Capacity Prismatic Type Layered Electrode with Anionic Redox Activity as an Efficient Cathode Material and PVdF/SiO ₂ Composite Membrane for a Sodium Ion Battery Arjunan Ponnaiah, Subadevi Rengapillai*, Diwakar Karuppiah, Sivakumar Marimuthu*, Wei-Ren Liu and Chia-Hung Huang Polymers	4.967
60.	Micro-/Mesoporous Nature of Carbon Nanofiber/Silica Matrix as an Effective Sulfur Host for Rechargeable Lithium-Sulfur Batteries P.Rajkumar, K.Diwakar, R.Subadevi*, RM.Gnanamuthu, Fu-Ming Wang, M.Sivakumar* Journal of Physics D: Applied Physics	3.409
61.	Enhanced Performance on layered O ₃ -Na _{0.95} CrO ₂ cathode material for emerging sodium ion Batteries M.Kouthaman, P.Arjunan, K.Kannan, R.Subadevi*, M.Sivakumar* Ionics	2.961
62.	Superior Ionic Transferring Polymer with Silicon dioxide composite Membrane via Phase Inversion Method designed for High Performance	4.967

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Resource persons in various capacities

National Conferences (papers : 132
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International Conferences : 124
Invited Lectures : 8

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