



Name : Dr.K.Shree Kesavan

Designation : Assistant Professor

Department : Chemistry, S&H

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### 1. EducationalQualification:

Degree	Branch/Specialization	Institute/University	Year of passing
B.Sc	Chemistry	ThiagarajarCollege/MKU	2013
M.Sc	Chemistry	ThiagarajarCollege/MKU	2015
Ph.D	Chemistry	Anna University	2022

### 2. Professional/IndustryExperience:(in chronologicalorder)

S. No.	Designation	Institute/Organization	Period	
			From	To
1	Assistant Professor	Vaigai College of Engineering	Sep 2022	Till
2	CSIR-SRF	SSN College of Engineering	Nov2020	June 2022
3	SSN-JRF	SSN College of Engineering	June 2016	May 2019
4	SSN-RA	SSN College of Engineering	Aug 2015	Feb 2016

3. ResearchInterest:**Nanomaterials, Li-ion batteries, Supercapacitors**

4. Journal Publications (add patent if any):

S. No.	SCI
1	<b>K. Shree Kesavan, M.S. Michael and S.R.S. Prabakaran, Battery-active monoclinic <math>\text{Li}_2\text{MnSiO}_4</math> synthesized via temperature programmed reaction, Journal of the Taiwan Institute of Chemical Engineers, 105 (2019) 28-38. (Impact Factor: 5.477; No.of Citation: 03)</b>
2	<b>K. Shree Kesavan, M.S. Michael and S.R.S. Prabakaran, Facile Electrochemical Activity of Monoclinic <math>\text{Li}_2\text{MnSiO}_4</math> as Potential Cathode for Li-Ion Batteries, ACS applied materials &amp; interfaces, 11 (2019) 28868-28877. (Impact Factor: 10.383; No.of Citation: 13)</b>
3	<b>K. Shree Kesavan and M.S. Michael, High rate capability and thermal stability of monoclinic-<math>\text{Li}_2\text{MnSiO}_4</math>-A promising high capacity cathode</b>

	material for lithium batteries, <i>Journal of Solid State Electrochemistry</i> , 26 (2022) 1431–1443 (Impact Factor: 2.747)
4	<b>K. Shree Kesavan</b> , K. Surya and M.S. Michael, High powered hybrid supercapacitor with microporous activated carbon, <i>Solid State Ionics</i> , 321 (2018) 15-22. (Impact Factor: 3.699; No.of Citation: 22)
5	M.S. Michael, <b>K. Shree Kesavan</b> and S.R.S. Prabaharan, Efficient Charge Storage in Hierarchically Porous Carbon Foams for Supercapacitor Applications, <i>Energy Technology</i> , 9 (2021) 2100252. (Impact Factor: 4.149)
6	V. Samynaathan, Sangeetha, <b>K. Shree Kesavan</b> and M.S. Michael, High-performance electric double-layer capacitor fabricated with nanostructured carbon black-paint pigment as an electrode, <i>Carbon Letters</i> , 31 (2021) 137-146. (Impact Factor: 3.117; No.of Citation: 04)
7	Suganthi Muthusamy, Julie Charles, M.S. Michael and <b>K. Shree Kesavan</b> , Enhanced specific capacitance of a novel ternary polypyrrole incorporated with prussian blue and mesoporous carbon black for high performance supercapacitor applications, <i>Materials Research Bulletin</i> , 120 (2019) 110587. (Impact Factor: 5.6; No.of Citation: 11)
8	S. ThankaRajan, V.V. Anusha Thampi, <b>K. Shree Kesavan</b> and B. Subramanian, Surface functionalization and antibacterial activity of biomedical textiles with metal oxides-carbon nanocomposites, <i>Ceramics International</i> , 45 (2019) 5210-5217. (Impact Factor: 5.532; No.of Citation: 07)
<b>PATENT</b>	
1	Single Phase Monoclinic $\text{Li}_2\text{MnSiO}_4$ as an Efficient Battery-active Positive Electrode Material for Rechargeable Lithium Batteries and Method of Preparing the same Authors: M. Siluvai Michael, <b>K. Shree Kesavan</b> <i>Indian patent #: Filed on 23/06/2020, Published on 21/08/2020</i>

5. Book/Book chapter publications: NIL

5. Funded Projects: NIL

Sl. No.	Title of the project	Funding Agency	Duration	Amount	Status
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6.Ph.Dguidance: NIL

Sl. No.	Scholar Name	University	Topic	Status
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7. Participation in Seminars/FDP/Workshop/Conference/Webinar:

Sl. No.	Title of the event	Attended/Organized	Date	
			From	To
1	Eight Days International Faculty Development Programme (FDP) on Foremost Frontiers of Materials Science	Attended	12 <sup>th</sup> September 2022	20 <sup>th</sup> September 2022



	<b>Organized Sathyabama Institute of Science and Technology, Chennai</b>			
2	<b>International Webinar Indigenous Materials for Energy Storage Applications Organized by Bharat Institute of Engineering and Technology</b>	<b>Attended</b>	<b>03<sup>rd</sup> September 2022</b>	<b>-</b>
3	<b>Presented a paper in the "Virtual International Conference Chemistry for Next-Gen Applications (ICCNA'21)" organized by the Department of Chemistry, SSN College of Engineering, Chennai, India.</b>	<b>Participated</b>	<b>24<sup>th</sup> September 2021</b>	<b>25<sup>th</sup> September 2021</b>
4	<b>Presented a paper in the "International Virtual Conference of the Forum for Interdisciplinary Mathematics (FIM) titled Synergies in Computational, Mathematical Statistical and Physical Sciences" (FIM28:SCMSPS 2020), Stella Maris College &amp; SSN College of Engineering, Tamil Nadu, India.</b>	<b>Participated</b>	<b>November 23<sup>rd</sup> 2020</b>	<b>November 27<sup>th</sup> 2020</b>
5	<b>Presented a paper in the "National Conference on Advances in Functional Materials" (NCAFM'19), organized by the Department of Chemistry, SSN College of Engineering, Chennai, India</b>	<b>Participated</b>	<b>21<sup>st</sup> March 2019</b>	<b>22<sup>nd</sup> March 2019</b>
6	<b>Presented a paper in the "International Meeting on Energy Storage Devices (IMESD-2018)", held at IIT, Roorkee, India</b>	<b>Participated</b>	<b>10 December 2018</b>	<b>12<sup>th</sup> December 2018</b>
7	<b>Presented a paper in the "International Conference on Renewable energy Research and Education, (RE<sup>2</sup>)", held at Government Arts &amp; Science College, Andhra Pradesh, India</b>	<b>Participated</b>	<b>08 February 2018.</b>	<b>10<sup>th</sup> February 2018</b>
8	<b>Presented a paper in the "National Conference on Emerging Trends in Smart Materials (NCETSM'18)", organized by the Department of</b>	<b>Participated</b>	<b>19<sup>th</sup> January 2018.</b>	<b>-</b>



	<b>Chemistry, SSN College of Engineering, Chennai, India</b>			
9	<b>Presented a paper in the "International Conference on NextGen Electronic Technologies: Silicon to Software (ICNETS<sup>2</sup>)", conducted by the VIT Chennai, India</b>	<b>Participated</b>	<b>March 23<sup>rd</sup>2017</b>	<b>March 25<sup>th</sup>2017</b>
10	<b>Participated in one day workshop on "A Technology know-how platform on the indigenous Development of Supercapacitors for Naval Applications" organized by the School of Electronics Engineering, VIT Chennai</b>	<b>Attended</b>	<b>24<sup>th</sup> February 2018</b>	
11	<b>Participated in the "International Conference on Advanced Rechargeable Batteries &amp; Allied Materials (ICARBM-2017)", Centre for Materials for Electronics Technology (C-MET), Pune, India.</b>	<b>Attended</b>	<b>March 08 2017</b>	<b>March 10<sup>th</sup>2017</b>

**9. Membership in Professionals societies: NIL**

**10. Awards, Recognition & Achievements:**

- Awarded "**CSIR-SENIOR RESEARCH FELLOWSHIP**" from **CSIR-HRDG**, New Delhi, (2020-2022).
- **Best Paper Award** in the "International Conference Chemistry for Next-Gen Applications (ICCNA '21)", 24<sup>th</sup> & 25<sup>th</sup> September 2021, Department of Chemistry, SSN College of Engineering, Chennai, India.
- **Best Paper Award** in the "SSN Doctorate Scholars Day - 2020", January, SSN College of Engineering, Chennai, India.
- **Best Paper Award** in the "National Conference on Emerging Trends in Smart Materials (NCETSM '18)", 19<sup>th</sup> January 2018, Department of Chemistry, SSN College of Engineering, Chennai, India.
- **Best Paper Award** in the "SSN Doctorate Scholars Day - 2017", December, SSN College of Engineering, Chennai, India.
- **Best Paper Award** in the "International Conference on NextGen Electronic Technologies: Silicon to Software (ICNETS<sup>2</sup>)", March 23<sup>rd</sup>-25<sup>th</sup>, 2017, VIT Chennai, India.
- Presented a paper in the "State Level Seminar" organized by the Department of Chemistry,



Thiagarajar College, Madurai-09, (September 2010)(**Won II<sup>nd</sup>Prize**).

- Presented a paper in the "State Level Seminar" organized by the Department of Chemistry, Thiagarajar College, Madurai-09, (February 2011) (**Won I<sup>st</sup>Prize**).
- Presented a paper in the "State Level Seminar" organized by the Department of Chemistry, Thiagarajar College, Madurai-09, (September 2011)(**Won III<sup>rd</sup>Prize**).

**Anyothers(if any):**

- ❖ TNDTE - Type Writing in English - First Class, May 2015
- ❖ XRD, FT-IR, TGA, FESEM-EDX, HRTEM and RAMAN
- ❖ Rietveld analysis of X-ray powder diffraction patterns
- ❖ Scientific graphing and data analysis including statistics, signal processing, curve fitting and peak analysis (ORIGIN©)
- ❖ Glovebox - Fabrication and testing of Lithium ion batteries
- ❖ Electrochemical workstation (CV, GCD, IMPEDANCE)
- ❖ Familiar with different synthesis techniques - sol-gel, solid state reaction and hydrothermal etc.