


Faculty Profile

Name :	Dr. B. SETHURAMAN				
Date of Birth :	31.05.1976				
Highest Qualification :	Ph.D.				
Date of Joining :	01.07.2010				
Designation :	PROFESSOR				
Date of promotion (Present Designation) :	01.12.2021				
Area of Interest :	NANOMATERIALS, ENERGY STORAGE DEVICES				
Mobile No :	+919944959956		Email ID :	sethuraman.b@trp.srmtrichy.edu.in	
Experience :	Teaching :	18 Yrs	Industry :	---	Research : 08 Yrs.
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Association with Professional Bodies

Name (Professional Body)	Institute of Physics (IOP)	Indian Association for Crystal Growth (IACG)		
Type of Membership	Life Time	Life Time		

Research

Ph. D Guidance					
Supervisor / Guide ship No. :	3070047	University :	Anna University	No. of Scholars :	-----
Publication*					
International Journals	:	08	National Journals	:	--
International Conference	:	04	National Conference	:	02
Project Grants (Research projects guided or undertaken/ Sponsored Projects)					
Received (Amount)	:	_____	Applied (Amount)	:	51,00,000/-
Patent					
Published	:	01	Granted	:	----

Books

Published	01
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FDPs / STTPs / Workshops / Seminars etc.,

FDP		STTP		Workshop		Seminar		Others	
Attended :	12	Attended :	04	Attended :	04	Attended :	06	Attended :	-
Organized :	02	Organized :	-	Organized :	-	Organized :	01	Organized :	-

Online courses (NPTEL, MOOC etc.)	07 Courses
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*List of Publications :

Patent

Purushothaman, KK , **Sethuraman, B**, & Saravanakumar, B, Patent published On 11/03/2022 'Zinc Oxide/Carbon Nanocomposite Process Of Preparation And Applications' Patent filed number 202041039231 on 10.09.20, CBR No.: 30172

Book Chapter

Purushothaman, KK* , Saravanakumar, B, & **Sethuraman, B**, 2020, 'Morphology Design Paradigms for Supercapacitors - Inorganic One-Dimensional Nanomaterials for Electrode Supercapacitor Applications' CRC Press, Taylor & Francis Group, cha. 9, pp. 203-226.

International Journals

1. Purushothaman K K, Saravanakuma, B, Vijayakumar S, **Sethuraman B**, Shanmugam G, MWCNT attached Mesoporous Ag₃O₄ @NiO Nanocomposite for Hybrid Supercapacitor Applications, Materials Technologies 2022, 37(14), pp. 3167-3173, (IF: 3.297)
2. Kannagi, K, Purushothaman, K, K, Suganya, P, & **Sethuraman, B**, 2020, 'Synthesis and Characterization of 3D Flower like Co₃O₄ for Supercapacitor Application', AIP Conf. Proc, Vol. 2270, pp. 110041- 110044. (IF: 0.4), ISSN No.: 0094243X, 15517616.
3. **Sethuraman, B** & Purushothaman, KK* 2015, 'Carbon Coated Flowery V₂O₅ Nanostructure as Novel Electrode Material for High Performance Supercapacitors', Electrochimica Acta, vol. 186, pp. 285-291. (IF: 6.901), ISSN No.: 0013-4686.
4. **Sethuraman, B** & Purushothaman, KK* 2015, 'Fabrication of Natural Polymer Assisted Mesoporous Co₃O₄/Carbon Composites for Supercapacitors', Electrochimica Acta, vol. 168, pp. 50-58. (IF: 6.901), ISSN No.: 0013-4686.
5. **Sethuraman, B**, Purushothaman, KK* & Muralidharan, G 2014, 'Synthesis of Mesh-like Fe₂O₃/C Nanocomposite via Greener Route for High Performance Supercapacitors', RSC Advances, vol. 4, no. 9, pp. 4631-4637. (IF: 4.036), ISSN No.: 2046-2069.
6. Purushothaman, KK* , Saravanakumar, B, Manoharababu, I, **Sethuraman, B** & Muralidharan, G 2014, 'Nanostructured CuO/Reduced graphene oxide composite for hybrid supercapacitors', RSC Advances, vol. 4, no. 45, pp. 23485-23491. (IF: 4.036), ISSN No.: 2046-2069.
7. Purushothaman, KK* , Manohara Babu, I, **Sethuraman, B** & Muralidharan, G 2013, 'Nanosheet-Assembled NiO Microstructures for High-Performance Supercapacitors', ACS Applied Materials & Interfaces, vol. 5, no. 21, pp. 10767-10773. (IF: 10.38), ISSN No.:1944-8244.
8. Purushothaman, KK*, **Sethuraman, B**, Anupama, MP, Dhanashanar, M & Muralidharan, G 2013, 'Optical, Structural and Electrochromic properties of cobalt oxide films prepared via sol-gel route', Materials science in Semiconductor Processing, vol. 16, no. 6, pp. 1410-1415. (IF: 4.644), ISSN No.: 1369-8001.

International/National Conference

1. B. Sethuraman A. Joseph Sagaya Kennedy, S. Mary Margaret and G. Purushothaman 'Aloe-Vera Gel Assisted Iron Oxide for Supercapacitor Applications' Proceedings of International Conference on Quantum Materials, Nanoscience & Nanotechnology (CONQUEST-2022), NOVEMBER 4th & 5 th , 2022, Organized by Liquid Crystal Research Laboratory, Department of Physics & Centre for Research, Bannari Amman Institute of Technology Sathyamangalam, Erode, Tamilnadu, India, pp.43
2. C. Yogambal a,, K. Venkatesan, D. Rajan Babu and B. Sethuraman 'Preparation and Characterization Of Ni²⁺ Substituted Cobalt Ferrite Magnetic Nanoparticles by Self-Sustained Solution Combustion Synthesis (SCS)' Proceedings of International Conference on Quantum Materials, Nanoscience & Nanotechnology (CONQUEST-2022), NOVEMBER 4th & 5 th , 2022, Organized by Liquid Crystal Research Laboratory, Department of Physics & Centre for Research, Bannari Amman Institute of Technology Sathyamangalam, Erode, Tamilnadu, India.pp.16
3. Kannagi, K, Purshothaman, KK, Suagnya, P, & **Sethuraman, B**, 2020, 'Synthesis and Characterization of 3D Flower like Co₃O₄ for Supercapacitor Applications', Proceedings of International Conference on Physics and Chemistry of Materials in Novel Engineering Applications, Kumaruguru College of Technology, Coimbatore, Tamilnadu, pp. 149.
4. **Sethuraman, B**, Purshothaman, KK*, Sudha, N, 2017, 'Iron oxide – Carbon Composite for High Performance Supercapacitor Applications', Proceedings of International Conference on Advances in Materials Science, Holy Cross CollGE, Trichy, Tamilnadu, pp. 58.
5. **Sethuraman, B**, Purushothaman, KK*, & Manoharababu, I 2017, Synthesis and Characterization of V₂O₅/carbon Composite for Energy Storage Applications', Proceedings of International Conference on Recent Trends in Materials Science and Applications, Sri Meenakshi Government Arts College, Tamilnadu, pp. 16.
6. Purushothaman, KK*, **Sethuraman, B**, Babu, IM & Muralidharan, G 2013, 'Supercapacitor behavior of NiO nanorods', Proceedings of National conference on Recent Advances in Surface Sciences, Gandhigram University, Tamilnadu, pp. 75-76. ISBN 978-93-82338-36-9