P. Ragupathy
Principal Scientist

Contact

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Academic Qualifications

M.Sc., MPhil, Ph.D

Experience

18 Years

Research Experience

18 Years

Additional Responsibilities

1. Council Member, Management Council at CSIR-CECRI.
2. Editorial Board Member, CSIR-CECRI Annual Report.

Areas of Research

Materials design and development of low cost, efficient & sustainable materials for electrochemical energy storage / conversion with special emphasis on (i) Li-ion, (ii) Li-sulfur, (iii) Metal-air (iv) Redox flow batteries and (v) supercapacitors.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	PDF		
	Ph.D.	4	2
	M.Phil.	3	
Projects	PG	5	

Publications

International		National		Others
Journals	**Conferences**	**Journals**	**Conferences**	**Books/chapters/ monographs/manuals**
58	3	1	1	1

Funded Research Projects

Ongoing Major Research Projects

S. No.	Title	Funding Agency	Amount (Rs. In lakhs)	Duration (Years)
1	Redox flow batteries for Renewable storage applications	SERB, DST	89.00	5 years from 30th June 2017

2	Development and in operando diagnostic of Zn/Br redox flow batteries	SERB, DST	109.00	5 years from 16th July 2018

Completed Major Research Projects

S. No.	Title	Funding Agency	Amount (Rs. In lakhs)	Duration
1	Investigation on High Performance Electrodes and Electrolytes for Advanced Zinc-Bromine Redox Flow Batteries	SERB, DST	42.42	(3 years) 2016-2019
2	Development of Li-ion supercapacitors as smart and clean storage devices	SERB, DST	21.70	(3.5 Years) 2012-2016
3	Development of Zinc bromine redox flow battery-500 W	FTT, CSIR	110.00	(5 years) (2012-2017)
4	To exploit novel carbonaceous materials for electrochemical applications relating to batteries and supercapacitors	CSIR	260.00	(5 years) (2012- 2017)
5	Investigation of Carbon Nanotubes as Electrode Materials for Zinc Bromine Redox Flow Batteries	CSIR-CECRI	8.00	(2 Years) 2011-2013

Patents

1. Dae Hoon Park, Ragupathy Pitchai, Byung Gil Lim, and Guy Campet, “Process for preparing nanocrystalline manganese oxide having supercapacitor electrode property” Application number 10-2008-0033697, South Korea

2. S. Suresh, Y. Munaiah, P. Ragupathy, Vijayamohanan K. Pillai, S. Dheenadayalan, “A zinc bromine redox flow battery with improved performance” filed Indian patent (1788 DEL 2014)

Distinctive Achievements / Awards

1. Brainpool Fellow at KAIST, South Korea
2. Research Fellow, Materials Science & Engineering, Nanyang Technological University, Singapore
3. Post Doctoral Fellow, Texas Materials Institute, The University of Texas at Austin, USA
4. Cellule Mixtes de Recherche Fellowship Embassy of France, ICMCB, Bordeaux, France

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

Events Participated

Conferences / Seminars / Workshops:

International Seminars: 5 National Seminars: 12

Membership in Professional Bodies

Referee for the International Journals

RSC, ACS, Elsewhere journals

Advisory Board

Resource persons in various capacities

Number of Invited / Special Lectures delivered:

More than 30

Others

1. No. of PhD Thesis Evaluated

   More than 7

2. No. of PhD Public Viva Voce Examinations conducted

   More than 5

Publications

Google Scholar citations: Not Mandatory