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DEPARTMENT OF PHYSICS
DIAMOND JUBILEE WEBINAR SERIES 2020-21
WEBINAR ON

**“Defect Engineered Electrodes for
Advanced Rechargeable Batteries”**

SPEAKER

Dr. Vinodkumar Etacheri
IMDEA Materials Institute, Tecnogetafe,
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
27th August, Thursday
3 pm to 4 pm (IST)

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Thursday
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3 pm to 4 pm

ABSTRACT

Development of rechargeable batteries with high performance and safety is one of the key challenges faced by modern electrochemistry. Rechargeable Li-ion batteries attracted significant attention during the last two decades due to their widespread application in portable electronics, medical implants, grid-level energy storage and electric vehicles. Recently, secondary Na-ion batteries emerged as an alternative candidate for large-scale energy storage. Low-cost and abundance of resources are main advantages of this technology. Mg-metal batteries is another high-performance battery system, which has superior energy densities compared to the conventional Li-ion batteries. Despite of the several advantages of Li/ Na-ion and Mg based batteries, their energy and power densities are not sufficient for more energy demanding commercial applications such as long-range driving. Consequently, development of high-performance electrode materials is necessary to improve the energy and power density of these secondary battery systems.

Main drawbacks of conventional insertion, conversion and alloying type battery electrodes are limited specific capacity, poor cycling stability and rate performance. Diffusion limited ion storage mechanism is one of the main reason accountable for these shortcomings. Inferior electrochemical performance of these electrodes is the main reason for the low power/ energy density and cycle life of rechargeable batteries based on Li, Na and Mg ions. Despite of the several advances in the designing and fabrication of nanostructured electrode materials, development of high performance rechargeable batteries still remains as a challenge. Pseudocapacitive ion storage is recently reported as a promising strategy to overcome the abovementioned drawbacks of battery electrodes. Nevertheless, intrinsic pseudocapacitance of metal oxide and carbonaceous electrodes are limited (~10%), which result in low energy density.

Pseudocapacitance can also be induced through nanoengineering of electrode materials. However, this method was not widely explored to improve the electrochemical performance of current generation Li/ Na ion and Mg-metal batteries. This webinar will be focused on our recent efforts on the development of defect and interface engineered electrode materials. Extreme pseudocapacitance resulting from the diffusion independent ion storage in this case resulted in high energy/ power density and cycle life. Spectroscopic and microscopic investigation of these novel electrodes revealed unique ion storage mechanisms.

REGISTRATION FORM

International Webinar on 'Defect Engineered Electrodes for Advanced Rechargeable Batteries.'

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8/25/2020 18:51:45	jothilakshmanan@gmail.com	Dr.L.JOTHI	N.K.R.GOV'T.ARTS COLLEGE	Assistant Professor in Physics
8/25/2020 19:01:09	711poojayadav@gmail.com	Pooja Yadav	Jamia Millia Islamia Unive	Student
8/25/2020 19:04:29	711poojayadav@gmail.com	Pooja Yadav	Jamia Millia Islamia Unive	Student
8/25/2020 19:06:51	adarsh3j5@gmail.com	ADARSH S	TKM College of Engineering	Post Graduate Student
8/25/2020 19:08:39	jananikarchana@gmail.com	Janani Archana K	National Institute of Technology	Research Scholar
8/25/2020 19:17:48	navyajoy@gmail.com	Navya Joy P	Christ Collage irinjalakkur	MSc Student
8/25/2020 19:24:38	balajipandurangan1998@gmail.com	P BALAJI	II M.SC PHYSICS	L. N. GOVT.COLLEGE (AUTONOMOUS) PONNERI
8/25/2020 19:40:01	chemsakthifriend@gmail.com	C. Sakthivel	Bharathiar University	PhD Research Scholar
8/25/2020 19:47:17	tony.francis691@gmail.com	FRANCIS TONY.K.G	Crescent public school, Chennai	PGT PHYSICS
8/25/2020 19:49:55	jessicaelizabeth123@gmail.com	Jessica Elizebath Joffy	Christ college, Irinjalakkur	Student
8/25/2020 19:53:04	athirajayan581@gmail.com	Athira Jayan	Vimala College (Autonomous)	Student
8/25/2020 19:55:33	ggbrothers7@gmail.com	Gokul S	Bishop Moore College, Mysore	M. M.Sc Physics student
8/25/2020 20:01:08	rajendhurs123@gmail.com	Rajendhu RS	Pankajakasthuri college of	BTech in Electronics and Communication Engineering
8/25/2020 20:03:15	aparnars444@gmail.com	Aparna RS	Emmanuel college,vazhich	Msc physics
8/25/2020 20:04:10	ardhrasanal@gmail.com	Ardhra D.S	Emmanuel college vazhich	MSc physics
8/25/2020 20:04:11	felixgeorge6221@gmail.com	Felix George	St Pauls college kalamas	Student
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8/25/2020 20:11:46	akshaym978007@gmail.com	AKSHAY MOHAN	St. Paul's college, Kalamazoo	Student
8/25/2020 20:14:57	manjushamn2@gmail.com	Manjusha M N	Emmanuel college, vazhich	Msc Student
8/25/2020 20:16:20	aparnavkumar777@gmail.com	Aparna V Kumar	NSS College Ottapalam	Student
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8/25/2020 20:22:13	donpellissery2001@gmail.com	Don p sunny	Christ college irinjalakuda	Student
8/25/2020 20:23:40	kevinmundackal@gmail.com	Kevin Chacko Mundackal	St. Thomas College, Palakkad	Student
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8/26/2020 10:09:10	akhiladas012@gmail.com	Akhila Das	Department of Polymer Sci	Research Scholar
8/26/2020 10:13:35	neethutm8@gmail.com	Neethu T M Balakrishnan	CUSAT	Research Scholar
8/26/2020 10:23:53	arunanadaraman@gmail.com	ARUN VARADARAJAN	Cochin College	Student
8/26/2020 10:35:59	nethrasheebi@gmail.com	Mariam Sheebi	Assumption college	Chan Student
8/26/2020 10:38:03	merlinbenny04061998@gmail.com	Merlin Benny	Assumption College, Cha	Student
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8/26/2020 10:53:57	electroclinton@gmail.com	F. Manik Clinton	Department of Chemistry,	Ph.D Research Scholar
8/26/2020 11:01:15	merinkwilson@cusat.ac.ir	Merin K Wilson	Cochin University	Research scholar
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8/26/2020 11:49:59	aryasas143@gmail.com	ARYA S NAIR	CHRIST COLLEGE IRIN.	GRADUATE STUDENT
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8/26/2020 12:31:55	divya.puthussery@gmail.com	Dr. Divya P	University of Calicut	Assistant professor
8/26/2020 12:39:17	ajaleshbnaair@uccollege.edu	Dr. Ajalesg B Nair	Union Christian College,	Assistant Professor
8/26/2020 12:48:38	srikanthragunath96@gmail.com	Mr. B. Srikanth Ragunath	SASTRA Deemed to be U	Research scholar
8/26/2020 13:08:33	aswathykr.kr@gmail.com	Aswathy Radhakrishnan	Amrita Center for Nanosc	Research student
8/26/2020 13:14:21	aswathysmurali1996@gmail.com	Aswathy S Murali	Amrita center for nanosci	Research Scholar
8/26/2020 13:14:25	chachu222015@gmail.com	Shasiya P S	UC COLLEGE ALUVA	Research Scholar
8/26/2020 13:16:19	donasusan93@gmail.com	DONA SUSAN BAJI	Amrita Centre for Nanosc	PhD Scholar
8/26/2020 13:24:09	ikarbal@gmail.com	Indrapal Karbhal	School of Studies in Cher	Assistant Professor
8/26/2020 13:27:58	s.yenchalwar@gmail.com	Sandeep G. Yenchalwar	Shri Dnyanesh Mahavidy;	Dr
8/26/2020 13:32:44	eldhosejacob@fisat.ac.in	Eldhose P Jacob	Federal Institute of Scienc	Assistant Professor
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8/26/2020 16:47:23	rajitaarun2006@gmail.com	Dr Rajita Ramanarayanan	S.A.R.B.T.M Government	Assistant Professor
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8/26/2020 17:46:41	kayakoolfathima@gmail.com	Fathima Ali K	Amrita Centre for Nanosc	M.Tech Student
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8/26/2020 23:07:43	sabisabt@gmail.com	SABNA M [1]	MES PONNANI COLLEG	Assistant Professor
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8/26/2020 22:21:51	nafiaparveen736@gmail.com	Nafia Parveen.M.A	Christ College Irinjalkkuc	Final year Bsc Physics student
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8/27/2020 8:29:40	rahulkm121001@gmail.com	RAHUL K. M	S. N college nattika	Student
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8/27/2020 9:58:47	binithatkm@gmail.com	Dr. Binitha G	ACNSMM	Research Scientist
8/27/2020 10:07:49	silpamariyasillu@gmail.cc	SILPA MARIYA	PROVIDENCE WOMENS	Student
8/27/2020 10:17:18	sfreddysolomon@gmail.c	FREDDY SOLOMON S	PSG College of technolog	Student
8/27/2020 11:01:55	jephin.jose@res.christuni	JEPHIN K JOSE	Christ(deemed to be univ	Research scholar
8/27/2020 11:22:32	c.tyagi@ncl.res.in	CHINKIT TYAGI	CSIR-NCL Pune	PhD student
8/27/2020 11:44:38	avramyaa1@gmail.com	A. V. Ramya	CHRIST (Deemed to be U	Doctoral Fellow
8/27/2020 11:52:57	lyjoonline@gmail.com	Lyjo K Joseph	Government College Kott	Assistant Professor
8/27/2020 12:25:22	swathyinohanan22@gma	SWATHY MOHANAN	St Thomas'College Auton	Research Scholar
8/27/2020 12:45:31	ks.aiswarya55@gmail.coi	Aiswarya K S	St.Aloysius College, Irinja	Assistant Professor
8/27/2020 13:09:19	felicgeorge6221@gmail.c	Felix George	St pauls vollege kalamass	Student
8/27/2020 13:17:04	nehruchem@gmail.com	Dr. S. NEHRU	Department of Physical C	Assistant Professor
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8/27/2020 13:52:52	akhilapnair10@gmail.com	Akhila. P	Science coaching centre	Student
8/27/2020 13:58:32	sefi.mp@gmail.com	SAFEERA. MP	ANSAR WOMEN'S COLL	Perumbilavu
8/27/2020 14:00:27	marygisby@gmail.com	Mary Gisby Poulouse	St. Joseph's College (Aut	Assistant Professor
8/27/2020 14:13:28	salmaameer395@gmail.c	Ummusalma	Ansar women's college pe	Pg student
8/27/2020 14:27:42	anusreekunnikkal@gmail	ANUSREE K	GOVERNMENT ARTS At 2nd year	Msc physics
8/27/2020 14:34:32	minukm89@gmail.com	Minu K M	Sree Narayana College, h	Assistant Professor