

Biodata

Name	Dr. Ramchandra S. Kalubarme	
Designation	Scientist C	
Educational qualification	M.Sc from Shivaji University, Kolhapur. Ph.D from Shivaji University, Kolhapur.	
Research area	Functional Nanostructured Materials, Lithium ion, Lithium air Battery, Na-ion, Electrocatalysts for Oxygen Reduction Reaction and Oxygen Evolution Reaction (ORR-OER), Glass ceramics (Li-ion conductors),	
Recognised Awards/Honors/Fellow	Nil	
Projects	Ongoing: 1. Magneto-dielectric Substrate for Miniaturized Antenna Application. (PN/SP/058) (Sponsored by MeitY, Outlay: Rs. 80.51 lakhs DoS: 08.08.2016; DoC: 07.08.2020)	
Publications/Patents (Past 5 years)	<ol style="list-style-type: none">1. An Investigation on the Effect of Li-ion Cycling on the Vertically Aligned Brookite TiO₂ Nanostructure, Narasimharao Kitchamsetti, Ramchandra S. Kalubarme, Parameshwar R. Chikate, Chan-Jin Park, Yuan-Ron Ma, Parashram M. Shirage, Rupesh S. Devan, Chem. Select. 4, 2019 6620-6626.2. Manganese dioxide/reduced graphene oxide composite an electrode material for high-performance solid state supercapacitor, S. Jadhav, Ramchandra S. Kalubarme, C. Terashima, Bharat B. Kale, V. Godbole, A. Fujishima, S.W. Gosavi, Electrochimica Acta, 299, 2019, 34-44.3. Silicon nanoparticle-sandwiched ultrathin MoS₂-graphene layers as an anode material for Li-ion batteries, U.V. Kawade, A.A. Ambalkar, R.P. Panmand, Ramchandra S Kalubarme, S.R. Kadam, S.D. Naik, M.V. Kulkarni, Bharat B Kale, Materials Chemistry Frontiers 3, 2019, 587-596.4. Influence of synthesis parameters on the physicochemical and electrochemical properties of LiFePO₄ for Li-ion battery, Swapnil J.Rajoba, Lata D.Jadhav, Ramchandra S.Kalubarme, Sanket N.Yadav, J. Alloys & Compounds, 774, 2019, 841-847.5. Facilitated Lithium Storage in Hierarchical Microsphere of Cu₂S-MoS₂ Ultrathin Nanosheets, Sunil R Kadam, Ramchandra S Kalubarme, Shrutika P Deshmukh, Rajendra P Panmand, Ujjwala V Kawade, Milind V Kulkarni, Shriniwas S Deo,	

	<p>Suresh W Gosavi, Bharat B Kale, Chemistry Select 3, 2018, 11020-11026.</p> <ol style="list-style-type: none"> 6. Porous Mn-doped Cobalt Oxide@C Nanocomposite: A Stable Anode Material for Li-ion Rechargeable Batteries, Ramchandra S. Kalubarme, Sarika M. Jadhav, Bharat B. Kale, Suresh W. Gosavi, Chiaki Terashima, Akira Fujishima, Nanotechnology 29, 2018, 285705. 7. Electrochemical performance of LiFePO₄/GO composite for Li-ion batteries, Swapnil J. Rajoba, Lata D. Jadhav, Ramchandra S. Kalubarme, Pramod S. Patil, S. Varma, B.N. Wani, Ceram. International, 44, 2018, 6886-6893. 8. Facile Synthesis of Unique Cellulose Triacetate Based Flexible and High Performance Gel Polymer Electrolyte for Lithium Ion Batteries, Trupti Nirmale, Indrapal Karbhal, Ramchandra S. Kalubarme, Manjusha V. Shelke, Anjani J. Varma, Bharat B. Kale, ACS Appl. Mater. Interfaces, 9, 2017, 34773-34782. 9. Stannic oxide Spherical Nanoparticles: An Anode Material with Long-Term Cyclability for Li-ion Rechargeable Batteries, Ramchandra S. Kalubarme, B.B. Kale, S.W. Gosavi, Materials Research Express 4, 2017, 085026. 10. Nanowires of Ni Substituted MnCo₂O₄ as an Anode Material for High Performance Lithium-ion Battery, A. F. Shaikh, R. S. Kalubarme, M. S. Tamboli, S. S. Patil, M. V. Kulkarni, D. R. Patil, S. W. Gosavi, C.J. Park, B. B. Kale, Chem. Select, 2, 2017, 4630-4637. 11. Nickel-titanium oxide as a novel anode material for rechargeable sodium-ion batteries, Ramchandra S. Kalubarme, Akbar I. Inamdar, D. S. Bhange, Hyunsik Im, Suresh W. Gosavi and Chan-Jin Park, J Mater. Chem. A, 4, 2016, 17419-17430. 12. Composite Gel Polymer Electrolyte Based on Poly(vinylidene fluoride-hexafluoropropylene) (PVDF-HFP) with Modified Aluminum-Doped Lithium Lanthanum Titanate (A-LLTO) for High-Performance Lithium Rechargeable Batteries, Hang T. T. Le, Duc Tung Ngo, Ramchandra S. Kalubarme, Guozhong Cao, Choong-Nyeon Park, Chan-Jin Park, ACS Appl. Mater. Interfaces, 8, 2016, 20710–20719. 13. Architecture of CdIn₂S₄/graphene nano-heterostructures for solar hydrogen production and anode for Lithium ion battery, Manjiri A. Mahadadalkar, Sayali B. Kale, Ramchandra S. Kalubarme, Ashwini P. Bhirud, J.D. Ambekar, Chan-Jin Park, B. B. Kale, RSC Advances. 6, 2016, 34724-34736. 14. Highly stable bilayer of LiPON and B₂O₃ added Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄) solid electrolytes for non-aqueous rechargeable Li-O₂ batteries, Harsharaj S. Jadhav, Ramchandra S. Kalubarme, Arvind H. Jadhav, Jeong Gil Seo, Electrochimica Acta. 199, 2016, 126-132. 15. Nickel titanate lithium-ion battery anode with highly reversible capacity and high-rate long-cycle life performance, A Inamdar, Ramchandra S Kalubarme, Jongmin Kim, Yongcheol Jo, Hyunseok Woo, Sangeun Cho, Sambhaji M. Pawar, C J Park,
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	<p>Young-Woo Lee, Jung Inn Sohn, SeungNam Cha, Jungwon Kwak, HS Kim and Hyunsik Im, <i>J. Mater. Chem. A.</i> 4, 2016, 4691-4699.</p> <p>16. Iron-nickel spinel oxide as an electrocatalyst for non-aqueous rechargeable lithium-oxygen batteries, Harsharaj S. Jadhav, Ramchandra S. Kalubarme, Arvind H. Jadhav, Jeong Gil Seo, <i>J. Alloys Compds.</i> 666, 2016, 476-481.</p> <p>17. Hierarchical 3D ZnIn₂S₄/graphene nano-heterostructures: in-situ fabrication with dual mimics in solar hydrogen production and anode for Lithium ion battery, Sayali B. Kale, Ramchandra S. Kalubarme, Manjiri A. Mahadadalkar, Harsharaj S. Jadhav, Ashwini P. Bhirud, J.D. Ambekar, Chan-Jin Park, B. B. Kale, <i>Phys. Chem. Chem. Phys.</i> 17, 2015 31850-31861.</p> <p>18. Bi-layer lithium phosphorous oxynitride/aluminium substituted lithium lanthanum titanate as promising solid electrolyte for longlife rechargeable lithium-oxygen batteries, Hang T.T. Le, Ramchandra S. Kalubarme, Duc Tung Ngo, Harsharaj S. Jadhav, and Chan- Jin Park, <i>J. Mater. Chem A</i> 3, 2015, 22421-22431.</p> <p>19. Uniform GeO₂ dispersed in nitrogen-doped porous carbon core-shell architecture: Anode material for lithium ion batteries, Duc Tung Ngo, Hang. T. T Le, R S. Kalubarme., Jae-Young Lee, Choong-Nyeon Park and Chan-Jin Park, <i>J. Mater. Chem A.</i> 3, 2015, 21722-21732.</p> <p>20. Simple synthesis of highly catalytic carbon-free MnCo₂O₄@Ni as an oxygen electrode for rechargeable Li-O₂ batteries with long-term stability, Ramchandra Kalubarme, Harsharaj S. Jadhav, Duc-Tung Ngo, Ga-Eun Park, John Fisher, Yun-Il Choi, WonheeRyu, Chan-Jin Park, <i>Scientific Reports</i> 5, 2015, 13266.</p> <p>21. Carbon Encapsulated Tin oxide Nanocomposites: An Efficient Anode for High Performance Sodium-Ion Batteries, Ramchandra Kalubarme, Jae-Young Lee, Chan-Jin Park, <i>ACS Applied Materials & Interfaces</i> 7, 2015, 17226-17237.</p> <p>22. Conducting additive-free amorphous GeO₂/C composite as a high capacity and long-term stability anode for lithium ion batteries, Duc T. Ngo, Ramchandra S. Kalubarme, Choong-Nyeon Park, Hang T. T. Le, Chan-Jin Park, <i>Nanoscale</i> 7, 2015, 2552-2560.</p> <p>23. Citrate gel synthesis of aluminum-doped lithium lanthanum titanate solid electrolyte for application in organic-type lithium-oxygen batteries, Hang T.T. Le, Ramchandra S. Kalubarme, Duc T. Ngo, Seong-Yong Jang, Kyu-Nam Jung, Kyoung-Hee-Shin, Chan-Jin Park, <i>J. Power Sources</i> 274, 2015, 1188-1199.</p>
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