

Bio-data

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Designation	Scientist D
Educational Qualification	MSc from Savitribai Phule Pune University, Pune, Maharashtra PhD from CSIR-National Chemical Laboratory, Pune (Affiliated to Savitribai Phule Pune University, Pune) Maharashtra
Research Area	Energy Device, Rechargeable Battery Technology, Solid State Battery, Polymers, Nanomaterial,
Awards and Recognition	Elected Young Associate (2018): Maharashtra Academy of Sciences
Projects	<ul style="list-style-type: none"> ➤ Plasmonic Ionic Liquid Crystal Stabilized Nanocluster for Optical Devices Funded by SERB New Delhi (Budget Rs: 3272000 Lakhs (3 Years) (Completed) ➤ Projects submitted to SERB, DST,
Publications/ Patents	<ol style="list-style-type: none"> 1. R. B Kale, S S More, N D Khupse, R S Kalubarme, M V Kulkarni, S B Rane, B B Kale, High-voltage ionic liquid-based flexible solid polymer electrolyte for high-performance Li-ion batteries 2. Sustainable Energy & Fuels, 2023, 7, 2934-2942 3. T. C. Nirmale, N. D. Khupse, R. S. Kalubarme, M. V. Kulkarni, A. J. Varma, B. B. Kale* Imidazolium-Based Dicationic Ionic Liquid Electrolyte: Strategy toward Safer Lithium-Ion Batteries, <i>ACS Sustainable Chem. Eng.</i> 2022, 10, 8297 4. S. More, N. D. Khupse, J. Ambekar, M. V. Kulkarni, B. B. Kale*, Ionic Liquid-Supported Interpenetrating Polymer Network Flexible Solid Electrolytes for Lithium-Ion Batteries, <i>Energy & Fuels</i> 2022, 36, 9, 4999. 5. S. B. Kale, T. C. Nirmale, N. D. Khupse, B. B. Kale, M. V. Kulkarni, S. Pavitran, S. W. Gosavi, "Cellulose derived flame retardant Solid Polymer Electrolyte for Lithium-ion Batteries" <i>ACS Sustainable Chem. Eng.</i> 2021, 9, 4, 1559 6. S. R. Thawarkar, T. Nirmale, S. More, J. Ambekar, B. Kale, N. D. Khupse,* "Ionic Liquid Responsive Phase Transfer of Gold Nanoparticles: Anionic Metathesis" <i>Langmuir</i>, 2019, 35, 9213. 7. N. D. Khupse,* S. Thawarkar, B. Thombare, Plasmonic Behavior

	<p>of Ionic Liquid Stabilized Gold Nanoparticles in Molecular Solvents, <i>New J Chem.</i> 2017, <i>41</i>, 12989.</p> <p>8. S. Thawarkar, N. D. Khupse, A. Kumar, A. “Comparative investigation of ionicity of aprotic and protic ionic liquids in molecular solvents: conductometry and NMR spectroscopy” <i>ChemPhysChem</i> 2016, <i>17</i>, 1006.</p> <p>9. J. T. Lu, J. C. Y. Lin, M. Che Lin, N. D. Khupse and I. J. B. Lin “<i>Labile Ionic Liquid Protected Palladium Nanoparticles</i>” <i>Langmuir</i> 2014, <i>30</i>, 10440.</p> <p>10. N. D. Khupse, A. Kumar, “Delineating Solute-Solvent Interactions in Binary Mixtures of Ionic Liquids in Molecular Solvents and Preferential Solvation Approach” <i>J. Phys. Chem. B</i> 2011, <i>115</i>, 711.</p> <p>11. N. D. Khupse, A. Kumar, “Contrasting Thermosolvatochromic Trends in Pyridinium, Pyrrolidinium- and Phosphonium-Based Ionic Liquids” <i>J. Phys. Chem. B</i> 2010, <i>114</i>, 376.</p>
<p>Google Scholar</p>	<p>https://scholar.google.com/citations?user=f1wGlnQAAAAJ&hl=en</p>