


## Biodata

<b>Name</b>	<b>Dr. Ranjit V. Kashid</b> <div style="float: right; text-align: center;">  </div>
<b>Designation</b>	Scientist B
<b>Educational qualification</b>	M. Sc Physics, Department of Physics, University of Pune, Pune Ph. D Physics, Department of Physics, University of Pune, Pune
<b>Research area</b>	Quantum materials and Technology, Quantum Transport, Low-temperature measurements, Nanoelectronics, 2D Materials, heterostructures, thin films, Field emission and Spectroscopy, N-V centre Diamond, Superconducting detectors, Quantum Dots
<b>Recognised Awards/Honours/Fellow</b>	<ul style="list-style-type: none"> <li>• PML Distinguished Associate Award-2021, given by National Institute of Standards and Technology (NIST), Gaithersburg, USA</li> <li>• Dr. Ravi Kumar Bhalla Awardee, given by Indian Physics Association (IPA), Pune Chapter</li> </ul>
<b>Projects</b>	Number of projects as of <b>29/08/2022</b>  <u><b>Ongoing :</b></u> <ol style="list-style-type: none"> <li>1. National Centre on Quantum Materials Technology (NCQMT), Funded by MeitY, Budget outlay: Rs. 58.49 Cr</li> <li>2. Development of Micro Solid Oxide Fuel Cells (<math>\mu</math>-SOFC) in Low Temperature Co-fired Ceramic (LTCC) Technology, Funded by DST, Budget Outlay: 2.12 Cr</li> </ol>
<b>Publications/Patents (Last 5 years only)</b>  <b>Provided Google scholar link</b>	<a href="https://scholar.google.co.in/citations?user=PQne9MoAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=PQne9MoAAAAJ&amp;hl=en</a>  <u><b>Publications:</b></u> <ol style="list-style-type: none"> <li>1. <b>R. V. Kashid</b>, Jayanta Kumar Mishra, Avradip Pradhan, Tanweer Ahmed, Saloni Kakkar, Pranav Mundada, Preeti Deshpande, Kallol Roy, Ambarish Ghosh, and Arindam Ghosh, Observation of Inter-Layer Charge Transmission Resonance at Optically Excited Graphene-TMDC Interfaces, <b>APL Materials</b>, 2020,8, 091114</li> <li>2. X. Wang, J. Wyrick, <b>R. V. Kashid</b>, P. Namboodiri, S. W. Schmucker, A. Murphy, M. D. Stewart, R. M. Silver, Atomicscale control of tunnelling in donor-based devices, <b>Communication. Phys. Nature Publishing Group</b>, 2020, 3, 82.</li> <li>3. Joseph A. Hagmann, Xiqiao Wang, <b>R. V. Kashid</b>, Pradeep Namboodiri, Jonathan Wyrick, Scott W. Schmucker, M. D. Stewart Jr., Richard M. Silver, and Curt A. Richter, Electron-electron interactions in low-dimensional Si:P delta layers, <b>Physics Review B</b>, 2020, 101, 245419</li> <li>4. S. W. Schmucker, P. N. Namboodiri, <b>R. V. Kashid</b>, X. Wang, B. Hu, J. E. Wyrick, A. F. Myers, J. D. Schumacher, R. M. Silver, M. D. Stewart, Low-</li> </ol>

	<p>Resistance, High-Yield Electrical Contacts to Atom Scale Si:P Devices Using Palladium Silicide, <b>Physical Review Applied</b>, 2019, 11, 034071.</p> <p>5. J. Wyrick, X. Wang, <b>R. V. Kashid</b>, P. Namboodiri, S. W. Schmucker, J. A. Hagmann, K. Liu, M. D. Stewart, C. A. Richter, G. W. Bryant, R. M. Silver, Atom-by-Atom Fabrication of Single and Few Dopant Quantum Devices, <b>Advance Functional Material</b>, 2019, 29, 1903475.</p>
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