

S.No.	<p style="text-align: center;"><b>List of Research Publications in Journals (Physics)</b> (Authors Names, Title of Paper, Name of the Journal, Volume, Page nos., Year).</p>
1.	R. Rana, P. Pandey, D. S. Rana, <b>K. R. Mavani</b> , I. Kawayama, H. Murakami, M. Tonouchi, Anisotropy-induced crossover from Drude conductivity to charge-density-wave excitations in a stripe-type charge-ordered manganite, <i>Phys. Rev. B</i> , 87, 224421 , 2013
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3.	Rakesh Rana, D. S. Rana , <b>K. R. Mavani</b> , I. Kawayama, H. Murakami, M. Tonouchi, Charge density wave excitations in stripe-type charge ordered Pr <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> manganite, <i>Appl. Phys. Lett.</i> , 101, 252401 , 2012
4.	<b>A.Roy</b> , Charge Symmetry Breaking in dd --> 4He pi <sup>0</sup> with WASA-at-COSY. P. Adlarson, et al. (WASA-at-COSY collaboration), <i>Phys. Lett. B</i> 739, 44–49, 2014 doi:10.1016/j.physletb.2014.10.029
5.	<b>A.Roy</b> , Evidence for a New Resonance from Polarized Neutron-Proton Scattering. P. Adlarson, et al.(WASA-at-COSY collaboration), <i>Phys. Rev. Lett.</i> 112, 202301, 2014 doi: 10.1103/PhysRevLett.112.202301
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7.	<b>A. Roy</b> , Total and differential cross sections of the reaction p + d → 3He + η at 48.8 MeV and 59.8 MeV excess energy. P.Adlarson, et al. (WASA-at-COSY Collaboration), <i>Eur. Phys. J. A</i> 50, 100, 2014, doi:10.1140/epja/i2014-14100-4
8.	<b>A.Roy</b> , Measurement of the pn → ppi <sup>0</sup> pi <sup>-</sup> Reaction in search for the recently observe resonance structure in the dpi <sup>0</sup> pi <sup>0</sup> and dpi <sup>+</sup> pi <sup>-</sup> systems. P. Adlarson, et al. (WASA-at-COSY Collaboration), <i>Phys. Rev. C</i> 88, 055208, 2013, doi:10.1103/PhysRevC.88.055208
9.	<b>A.Roy</b> , Search for a dark photon in the pi <sup>0</sup> → e <sup>+</sup> e <sup>-</sup> gamma decay. P Adlarson, et al. (WASA-at-COSY Collaboration), <i>Phys. Lett. B</i> 726, 187-193, 2013, doi:10.1016/j.physletb.2013.08.055
10.	<b>A.Roy</b> , Search for eta-mesic 4He with the WASA-at –COSY detector. P. Adlarson, et al.( WASA-at- COSY collaboration ), <i>Phys. Rev. C</i> 87, 035204, 2013 doi:10.1103/PhysRevC.87.035204
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22.	<b>Jalan S</b> , Zhu G, Li B, Spectral Properties of Directed Random Networks with Modular Structure, <i>Phys. Rev. E</i> 84, 046107 (2011)
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