

Dr. K. C.Sekhar

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Date of Joining : **06-07-2015**
 Experience : Teaching: **5 year**; Research: **10** years
 Field of specialization : Condensed Matter Physics (Experimental)
 Courses Taught : Mechanics, Vacuum Science and Thin Film Physics,
 Mathematical Physics I & II, Semiconductor Physics;
 Physics of Magnetism and Spintronics
 Number of
 Articles published : **64**

Published	Journals	Seminars/ Workshops/ etc.,	Impact / H-index	Patents
International	60	04	H-index: 16	--

Conferences/seminars/workshops papers presented : National: **16** ; International: **04**

Research consultancy / projects : **02 (ongoing)**

Guidance : M.Sc.Project: **17** Ph.D: **04** (on going)

Organizing the conferences/seminars/workshops : National: **02**

Significant achievements:

1. BPD grant from Foundation of Science and Technology (FCT), Portugal; 2010 to 2015
2. BK21 Postdoc. fellowship Yonsei University, S. Korea; Duration Nov. 2009 - Jul. 2010
3. Senior Research Fellowship from CSIR from 2008 to Oct. 2009
4. IITR –MHRD (Institute) Fellowship IIT Roorkee, from Aug. 2005 - Sep. 2008

Publications: (for year 2020)

1. Energy storage performance of ferroelectric ZrO₂ film capacitors: effect of HfO₂:Al₂O₃ dielectric insert layer, *Journal of Materials Chemistry A* 8 (28), 14171-14177 (2020)
2. Robust resistive switching performance of pulsed laser deposited SiC/Ag/SiC tri-layer thin films deposited on a glass substrate, *MRS Communications* 10, 353-358 (2020).
3. Microstructure tailoring for enhancing the energy storage performance of 0.98 [(0.6Ba (Zr_{0.2}Ti_{0.8})O₃-0.4(Ba_{0.7}Ca_{0.3})TiO₃]-0.02 BiZn_{1/2}Ti_{1/2}O₃ ceramic capacitors *Journal of Science: Advanced Materials and Devices* 5 (1), 119-124 (2020)
4. Green Synthesized Ag Nanoparticles for Bio-Sensing and Photocatalytic Applications, *ACS Omega* 5, 22, 13123–13129 (2020).

For more publication please refer

<https://scholar.google.co.in/citations?user=fOR1Xu4AAAAJ&hl=en>