Praveen Deorani

Research Scholar at National University of Singapore

Experience

Research Scholar at   National University of Singapore
January 2011 - Present (4 years 10 months)

Research Associate at   Indian Institute of Technology, Kanpur
May 2010 - October 2010 (6 months)

Publications

Role of spin mixing conductance in spin pumping: Enhancement of spin pumping efficiency in Ta/Cu/Py structures
Applied Physics Letters   November 18, 2013
Authors: Praveen Deorani, Hyunsoo Yang

Nonreciprocity engineering in magnetostatic spin waves
Current Applied Physics   March 14, 2014
Authors: Praveen Deorani, Jae Hyun Kwon, Hyunsoo Yang

Observation of inverse spin Hall effect in bismuth selenide
Physical Review B   September 3, 2014
Authors: Praveen Deorani, Jaesung Son, Karan Banerjee, Nikesh Koirala, Matthew Brahlek, Seongshik Oh, Hyunsoo Yang

Angular and temperature dependence of current induced spin-orbit effective fields in Ta/CoFeB/MgO nanowires
Scientific Reports   March 12, 2014
Authors: Xuepeng Qiu, Praveen Deorani, Kulothunga sagaran, Ki-Seung Lee, Kyung-Jin Lee, Hyun-Woo Lee, Hyunsoo Yang

Investigation of the temperature-dependence of ferromagnetic resonance and spin waves in CoFeAlSi
Applied Physics Letters   June 2, 2014
Authors: Li Ming Loong, Jae Hyun Kwon, Praveen Deorani, Chris Nga Tung Yu, Atsufumi Hirohata, Hyunsoo Yang

Attenuation characteristics of spin-pumping signal due to traveling spin waves
Physical Review B   March 12, 2012
Authors: Praveen Deorani, Sankha Subhra Mujherjee, Jae Hyun Kwon, Hyunsoo Yang

Characterization of magnetostatic surface spin waves in magnetic thin films: evaluation for microelectronic applications
Applied Physics A   January 19, 2013
Authors: Jae Hyun Kwon, Sankha Subhra Mukherjee, Praveen Deorani, Masamitsu Hayashi, Hyunsoo Yang

Volunteer Experience

Teacher   at   Shiksha Sopan, Kanpur
June 2007 - December 2007 (7 months)

Languages

English   (Professional working proficiency)

Hindi   (Native or bilingual proficiency)

Skills & Expertise

Nanofabrication
Photolithography
Sputtering
Ion Milling
Characterization
Badminton
Matlab
Programming
Data Analysis
Java
Python
Common Lisp
Statistics

Education

National University of Singapore
Doctor of Philosophy (Ph.D.), Electrical and Computer Engineering, 2011 - 2015
Grade: 4.67/5
Indian Institute of Technology, Kanpur
Master's Degree, Physics, 2005 - 2010

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Linked in.

Contact Praveen on LinkedIn