ZAKIR HUSAIN DELHI COLLEGE
(University of Delhi)

Faculty Details

(Please Fill the form and Email it to website@zh.du.ac.in)

Dr	**Satish Kumar**	**Rajouria**	**Photograph**
Designation	**Associate Professor**		
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	Residence		
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Educational Qualification

Degree	Institution	Year
B.Sc Hons Physics	Acarya Narendra Dev College (University of Delhi)	2004
M.Sc Physics	Indian Institute of Technology Delhi	2006
Ph.D	Indian Institute of Technology Delhi	2016

Career Profile

Assistant Professor in Zakir Husain Delhi College August 2006 to 2020

Associate Professor in Zakir Husain Delhi College August 2020 to continue….

Administrative Assignments

Involved in college fest Aadaab, President of Physics Society physciuminati, Organize First national Workshop on fiber optics, Photonics and Nano electronics [FOPN-1] on February 6-7, 2012 at Zakir Husain Delhi College. Debating Society, Wi-Fi Committee, Convocation Committee, Canteen Committee, Involved in Admission and Student Union Elections (Counting Officer), Convener Staff requirement Committee (SRC) (2016-18), NAAC

Steering Committee, Academic Supervisory Committee Member, Head of the Department of Physics, Zakir Husain Delhi College (2011-12 ,2016-17 & 2021-22), Member Time Table Committee of the college.

Areas of Interest / Specialization

Laser Plasma Interaction

Subjects Taught

Thermal Physics and Statistical Mechanics, Wave and Optics

Research Guidance

Publications Profile

1. Satish Kumar Rajouria and Pawan Kumar Relativistic nonlinear frequency shift of laser pulse on reflection from critical layer in inhomogeneous plasma, Phys. Plasmas 27, 033101 (2020).

2. Mohd Suleman, Mohamad Deraman, S.A.Hashmi, M.A.R.Othman, Yogesh Kumar S.K.Rajouria and M.R.M.Jasnia Accommodating succinonitrile rotators in micro-pores of 3D nano-structured cactus carbon for assisting micro-crystallite organization, ion transport and surplus pseudo-capacitance: An extreme temperature supercapacitor behaviour ELECTROCHIMICA ACTA Volume 333, 10 February 2020, 135547.

3. Ram Kishor Singh, Monika Singh and Satish Kumar Rajouria, High-power terahertz radiation generation by beating of two co-propagating super-Gaussian laser beams in cluster plasma, Laser Physics, Volume 28, Number 8, 086003 June 2018.

4. Deepak Kumar, Satish Kumar Rajouria, Suman B. Kuhar, D.K. Kanchan Progress and prospects of sodium-sulfur batteries: A review, Solid State Ionics Volume 312, 1 December 2017, Pages 8-16.

5. Ram Kish or Singh, Monika Singh, Satish Kumar Rajouria, and R. P. Sharma, High power terahertz radiation generation by optical rectification of a shaped pulse laser in axially magnetized plasma, PHYSICS OF PLASMAS 24, 103103 (2017).

6. Ram Kishor Singh, Monika Singh, Satish Kumar Rajouria, and R. P. Sharma, Strong terahertz emission by optical rectification of shaped laser pulse in transversely magnetized plasma, Physics of Plasmas 24, 073114 (2017).

7. Shyodan Singh, D .Chao and Satish Kumar Rajoria, THE ROLE OF YOGA ON WELL-BEING OF INDIAN ELDERLY, Journal of Indian

Health Psychology, VOL. 12, NO. 1, September, 2017. Page 36-44

8. Pawan Kumar, Rajeev Kumar and Satish Kumar Rajouria, Cherenkov terahertz surface plasmon excitation by an electron beam over an ultrathin metal film, Journal of Applied Physics 120, 223101 (2016).

9. Satish Kr Rajouria, H. K. Malik, V. K. Tripathi, and Pawan Kumar, Step density model of laser sustained ion channel and Coulomb explosion, Phys. Plasmas 22, 023104 (2015).

10. Manoj Kumar, Satish Kr Rajouria and Magesh Kr. K. K., Effect of pulse slippage on beat wave THz generation in a rippled density magnetized plasma, Journal of Physics D: Applied Physics 46, 435501(2013).

11. Satish Kr. Rajouria, Magesh Kr. K. K. and V. K. Tripathi, Nonlinear resonance absorption of laser in an inhomogeneous plasma, Phys. Plasmas 20, 083112 (2013).

12. Swati Arora, Satish Kumar Rajouria, Pankaj Kumar, P K Bhatnagar, Manoj Arora and R P Tandon, Role of donor¬ acceptor domain formation and interface states in initial degradation of P3HT:PCBM based solar cells, Phys. Scr. 83 (2011) 035804 (6pp)

Conference Organization/ Presentations (in the last five years)

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

Association With Professional Bodies

Other Activities