

## **CURRICULAM VITAE**

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**EDUCATION** : B.Sc(Physics Hons) , University of Kalyani

M.Sc(Spl. Electronics) , University of Kalyani

B.Ed , North Bengal University

Ph.D, West Bengal State University

( Title of Thesis : On Some Methods of Analysis of Thermally Stimulated Luminescence Peaks )

**ACADEMIC POSITIONS** : Assistant Professor Raghunathpur College since 06.07.2017

**HELD** Assistant Professor, Acharya Prafulla Chandra College, New Barrackpore, Kol-131(from 10.09.2003 to 05.07.2017)

**TEACHING AREA** : Classical Mechanics, Electricity and Magnetism, Thermal Physics, Electronics, Solid State Physics, E.M. Theory.

### **SOME PUBLICATIONS :**

**1)** Analysis of thermoluminescence glow curves using derivatives of different orders  
M. Karmakar, S. Bhattacharya, A. Sarkar, P. S. Majumdar and S. D. Singh  
Radiation Protection Dosimetry, 175 493 (2017).

**2)** On the Ilich method of determination of activation energy of TL peaks with temperature dependent frequency factor  
S. D. Singh, M. Karmakar, I. Bhattacharyya and P. S. Majumdar  
International Journal of Luminescence and Applications, 6 191 (2016).

**3)** On the two heating rate method of determination of the activation energy of TL peaks under different heating schemes  
M. Karmakar, Sk. Azharuddin, B. Ghosh and S. D. Singh

International Journal of Luminescence and Applications, 6(3) 156 (2016).

**4)** On the determination of activation energy and the order of kinetics in thermoluminescence

M. Karmakar, S. Bhattacharyya, A. Sarkar, P. S. Majumdar and S. D. Singh  
Radiation Effects and Defects in Solids, 170 977 (2015).

**5)** On the analysis of TL glow curves recorded with hyperbolic heating scheme

M. Karmakar, P. S. Mazumdar, Sk. Azharuddin and S. D. Singh  
Indian Journal of Theoretical Physics, 61 87 (2013).

**6)** On the determination of the order of kinetics in thermoluminescence by peak shape method

S. J. Singh, M. Karmakar and S. D. Singh  
Radiation Effects and Defects in Solids, 168 352 (2013).

**7)** On the reappraisal of the peak shape method for general order thermoluminescence

S. J. Singh, M. Karmakar, M. Bhattacharya, S. D. Singh, W. S. Singh and Sk. Azharuddin  
Indian Journal of Physics, 86 113 (2012).

**8)** Modified peak shape method for the determination of activation energy in thermoluminescence

S. J. Singh, M. Karmakar, W. S. Singh and S. D. Singh  
Physica Scripta, 86 035702 (2012).

**9)** On the temperature dependent frequency factor in thermoluminescence

M. Karmakar, B. Sarkar, Sk. Azharuddin, P. S. Majumdar, S. D. Singh, W. S. Singh and M. Bhattacharya  
Ind. J. Phys., 84 529 (2010).

**10)** Evaluation of kinetic parameters from thermoluminescence glow curves

M. Karmakar, B. K. Sarkar, S. Barman, P. S. Majumdar, S. D. Singh, W. S. Singh and M. Bhattacharya  
Ind. J. Physics, 82 1495 (2008).