

CURRICULUM VITAE

Name- Dr. Saikat Debnath

Designation – Assistant Professor (Level 11)

Qualification- Ph. D.

Area of Expertise – Computational Material Science, Magnetic and Electronic Properties of Oxides and Chalcogenides,
Computer Vision and Object Tracking

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Education

Ph. D S.N. Bose National Centre for Basic Sciences

M.Phil NA

M.Sc IIT Bombay

B.Sc Ramakrishna Mission Vidyamandira, Belur Math

Intermediate Sudarshanpur Dwarika Prashad Uchcha Vidyachakra, Raiganj

High School Sudarshanpur Dwarika Prashad Uchcha Vidyachakra, Raiganj

Professional Experience-

Publication –

	Title	Name of Journal	ISSN/ISBN
1	Pitfalls of exchange–correlation functionals in description of magnetism: Cautionary tale of the FeRh alloy	Computational Materials Science 248, 113561	1879-0801
2	Tailoring Magnetic Anisotropy in Ultrathin Cobalt by Surface Carbon Chemistry	Advanced Electronic Materials 10 (4), 2300579	2199-160X
3	Ferrimagnetic cluster formation due to oxygen vacancies in CaFe ₂ O ₄	Physical Review B 98 (14), 144404	2469-9969
4	Structural distortions in monolayers of binary semiconductors	Physical Review B 97 (4), 041404	2469-9969
5	Structure-property relationship of π -extended boron-dipyrromethene derivatives towards optoelectronic applications	Dyes and Pigments 142, 558–571	1873-3743
6	Electronic structure of Mn _{0.25} TaS ₂	Journal of Electron Spectroscopy and Related Phenomena 208, 74-77	1873-2526
7	NaOsO ₃ : A high Neel temperature 5 oxide	Physical Review B 89 (13), 134416	2469-9969
8	Microscopic model for the strain-driven direct to indirect band-gap transition in monolayer MoS ₂ and ZnO	Physical Review B 89 (11), 115201	2469-9969
9	The role of passivants on the stoichiometry of CdSe and GaAs nanocrystals	The Journal of Physical Chemistry C 117 (42), 21981-21987	1932-7455

Seminar

Type of Participation	Status	Title of Paper
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