## a) Name of the faculty: Dr. Shuvankar Mandal



b) Academic qualifications: M.Sc., Ph.D

c) Area of Specialization: Inorganic Chemistry

- d) Research interest:
  - i) Molecular Magnetism
  - ii) Crystal Engineering
  - iii) Biomimetic Inorganic Chemistry
  - iv) Steady State and Time-Resolved Photophysical Properties
- e) Total no. of publications:
  - i) National 1
  - ii) International 13
- f) Total no. of conferences/workshops attended:
  - i) National 2
  - ii) International 3

## **Publications of Dr. Shuvankar Mandal**

		I	
Sl.	Title with page no.	Journal	ISSN No.
No.	1 0		
1	Syntheses, Crystal Structures and	ChemitrySelect	2365-6549
	Experimental/Theoretical Magnetic		
	Properties of Two Butterfly		
	Ni <sup>II</sup> <sub>2</sub> Y <sup>III</sup> <sub>2</sub> Compounds, <i>ChemitrySelect</i> ,		
	<b>2019</b> , <i>4</i> , 8074–8081		
2	Experimental and theoretical	Journal of	1010-6030
	exploration of sensing and magnetic	Photochemistry and	
	properties of a triply bridged	Photobiology A:	
	dicopper(II) complex: The first discrete	Chemistry	
	metal complex to sense picric acid in		
	pure water, JPhotochemistry and		

	Photobiology A: Chemistry, 2019, 383,		
	111987–111997.		
3	Thermal behavior and decomposition mechanism of a series of crown ether based lanthanide(III) hexacyanometallate(III) compounds, <i>J. Indian Chem. Soc.</i> , <b>2019</b> , <i>96</i> , 557–583.	Journal of Indian Chemical Society	0019-4522
4	Syntheses, crystal structures and magnetic properties of two heterobridged $\mu$ -phenoxo- $\mu_{1,1}$ -azide/isocyanate dinickel(II) compounds: experimental and theoretical exploration, <i>Eur. J Inorg. Chem.</i> , <b>2018</b> , 4556 –4565.	European Journal of Inorganic Chemistry	1099-0682
5	Dinuclear, dimer-of-dinuclear and new type of polymeric metal complexes of copper(II)–zinc(II)/cadmium(II) derived from a less explored compartmental ligand, <i>Inorg. Chim. Acta</i> , <b>2018</b> , <i>483</i> , 527–538.	Inorganica Chimica Acta	0020-1693
6	Dimer-of-Dinuclear, Dinuclear Based 2-D and Metal-Centered Rectangle Type Heterometallic Cu <sup>II</sup> –Ag <sup>I</sup> /Cd <sup>II</sup> /Ba <sup>II</sup> Systems Derived from a Single Compartmental Ligand, <i>ChemistrySelect</i> , <b>2018</b> , <i>3</i> , 9610 – 9616.	ChemistrySelect	2365-6549
7	Linear trinuclear copper(II)-alkali/alkaline earth metal compounds derived from a compartmental ligand, <i>Inorg. Chim. Acta</i> , <b>2018</b> , 482, 612 – 620.	Inorganica Chimica Acta	0020-1693
8	Single Crystal to Single Crystal Transformation and Magnetic Properties of a Series of 'Butterfly' Ni <sup>II</sup> <sub>2</sub> Ln <sup>III</sup> <sub>2</sub> compounds: SMM behavior of the Dysprosium(III) analogue, <i>Eur. J. Inorg. Chem.</i> , <b>2018</b> , 2793 – 2804.	of Inorganic Chemistry	1099-0682
9	Experimental and theoretical exploration of magnetic exchange interactions and single molecule magnetic behaviour of bis( $\eta^1$ : $\eta^2$ : $\mu_2$ -carboxylate) Gd <sup>III</sup> <sub>2</sub> /Dy <sup>III</sup> <sub>2</sub> systems, <i>Dalton Transiction</i> , <b>2018</b> , <i>47</i> , 11455 – 11469.	Dalton Transiction	1477-9226
10	Syntheses, crystal structures, magnetic properties and ESI-MS studies of a series of trinuclear Cu <sup>II</sup> M <sup>II</sup> Cu <sup>II</sup> compounds (M = Cu, Ni, Co, Fe, Mn, Zn), <i>RSC Advance</i> , <b>2018</b> , 8, 7315 –	RSC Advance	2046-2069

	7329.		
11	Syntheses, crystal structures and magnetic properties of two mixed-valence Co(III)Co(II) compounds derived from Schiff base ligands: field-supported single-ion-magnet behavior with easy-plane anisotropy, <i>Dalton Trans.</i> , <b>2017</b> , <i>46</i> , 13135 – 13144.	Dalton Transiction	1477-9226
12	Syntheses, crystal structures, magnetochemistry and catechol oxidase activity of a tetracopper(II) compound and a new type of dicopper(II) based 1-D coordination polymer, <i>New J. Chem.</i> , <b>2017</b> , <i>41</i> , 4689 – 4701.	New Journal of Chemistry	1144-0546
13	A Series of M <sup>II</sup> Cu <sup>II</sup> <sub>3</sub> Stars (M = Mn, Ni, Cu, Zn) Exhibiting Unusual Magnetic Properties, <i>Inorg. Chem.</i> , <b>2015</b> , <i>54</i> , 117 – 131.	Inorganic Chemistry	0020-1669
14	Dinuclear, star-shaped tetranuclear and trinuclear-based two- dimensional metal complexes derived from a less investigated Schiff base ligand: Syntheses, crystal structures and spectroscopic correlation, <i>Inorg. Chim. Acta</i> , <b>2014</b> , <i>415</i> , 138 – 145.	Inorganica Chimica Acta	0020-1693

## **Paper Presentation details**

Title of Paper	Name of the	Organised by	Level
presented	Seminar/Conference		
	with date		
Single Crystal to	Challenges and	BhairabGangulyCollege,	International Web
Single Crystal	Opportunities in	Belghoria, Kolkata and	Conference
Transformation and	Chemistry towards	National Environmental	
Magnetic Properties	Sustainable	Engineering Research	
of a Series of	Environmental	Institute, Nagpur	
'Butterfly' Ni <sup>II</sup> <sub>2</sub> Ln <sup>III</sup> <sub>2</sub>	Developments.		
compounds: SMM			
behavior of the	Date: 17/07/2020 and		
Dysprosium(III)	18/07/2020		
analogue			