

## Recent Selected Publications of Snehasis Banerjee

ORCID: [0000-0003-0888-5870](https://orcid.org/0000-0003-0888-5870)

Sl. No.	Journal Name/Volume/Page/Year	Impact Factor
1.	Understanding the Formation Mechanism and Structural Aspects of Anti-cancer Drug Platinum Uracil Blues by Quantum Chemical Studies, Manuscript ID: RA-ART-10-2025-008093, <b>(Minor review from RSC Advance)</b>	4.6
2.	Synthesis, structural characterization and DFT study of a cobalt(III)/cobalt(II) complex derived from N,O donor reduced Schiff base ligand, <b>Volume 581, 1 June 2025, 122618, Inorganica Chimica Acta</b> , <a href="https://www.sciencedirect.com/science/article/abs/pii/S0020169325000842?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S0020169325000842?via%3Dihub</a> , (ScienceDirect (ELSEVIER))	3.2
3.	Distinguishing between Coordination and Spodium Bonds in the Dinuclear Cadmium(II) Complex of Lawesson's-Derived Phosphonodithioates <b>Crystal Growth &amp; Design , 2025, 25, 4, 912–923</b> DOI: 10.1021/acs.cgd.4c01027 Pretam Kumar; Snehasis Banerjee; Sushil K. Pandey <a href="https://doi.org/10.1021/acs.cgd.4c01027">https://doi.org/10.1021/acs.cgd.4c01027</a> <b>(INTERNATIONAL: AMERICAN CHEMICAL SOCIETY)</b>	3.4
4.	Derivative of clove oil used as a chemosensor for the colorimetric and fluorometric detection of Al <sup>3+</sup> : crystal structure description and live cell imaging <b>New Journal of Chemistry</b> , 2025 DOI: 10.1039/D4NJ04724A Mohafuza Khatun; Jayanta Mandal; Rajdeep Ganguly; Ananya Barui; Snehasis Banerjee; Amrita Saha <a href="https://pubs.rsc.org/en/content/articlelanding/2025/nj/d4nj04724a">https://pubs.rsc.org/en/content/articlelanding/2025/nj/d4nj04724a</a> <b>INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)</b>	3.3
5.	Application of a distinctly bent, trinuclear, end-to-end azide bridged, mixed valence cobalt(III/II/III) complex in the fabrication of photosensitive Schottky barrier diodes, <b>RSC Advances</b> , 2024 , DOI: 10.1039/D4RA01406E Sudip Bhunia; Mainak Das; Snehasis Banerjee; Michael. G. B. Drew; Partha Pratim Ray; Shouvik Chattopadhyay URL <a href="https://doi.org/10.1039/D4RA01406E">https://doi.org/10.1039/D4RA01406E</a> <b>(INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)</b>	4.6
6.	Importance of $\pi$ - $\pi$ interactions in the solid state structures of two cobalt complexes derived from N,O donor reduced Schiff base ligands, <a href="https://doi.org/10.1016/j.poly.2024.116916">https://doi.org/10.1016/j.poly.2024.116916</a> , <b>Volume 254</b> , 15 May 2024, 116916 <b>INTERNATIONAL: ScienceDirect, ELSEVIER)</b>	2.97
7.	S.Banerjee, et al. Fabrication of Schottky barrier diodes utilizing carboxylate bridged trinuclear mixed valence cobalt(III/II/III) complexes of tetradentate N <sub>2</sub> O <sub>2</sub> donor reduced Schiff base ligands, <a href="https://doi.org/10.1039/D3NJ01829F">https://doi.org/10.1039/D3NJ01829F</a> (accepted), <i>New Journal of Chemistry</i> , 2023, <b>47</b> , 14202 – 14216 <b>(INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)</b>	3.3

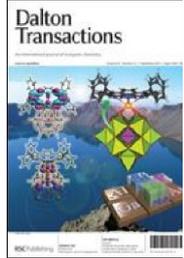
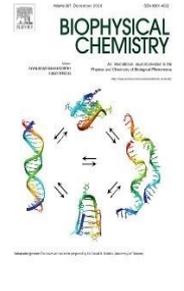
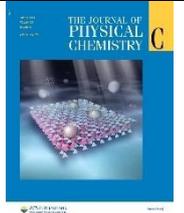
## Recent Selected Publications of Snehasis Banerjee

ORCID: [0000-0003-0888-5870](https://orcid.org/0000-0003-0888-5870)

Sl. No.	Journal Name/Volume/Page/Year	Impact Factor
8.	S. Banerjee, et.al An insight into the non-covalent interactions in the solid state structures of dinuclear cobalt(II) complexes with N,O-donor ligands: Application of the complexes in the fabrication of Schottky devices, <i>CrystEngComm</i> , <b>2023</b> , DOI: 10.1039/D2CE01282K <a href="https://doi.org/10.1039/D2CE01282K">https://doi.org/10.1039/D2CE01282K</a>  (INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)	3.756
9.	S.Banerjee et al. Combined Experimental and Theoretical Studies on the Rubbing-Induced Fluorescence Behavior of a Luminophore in the Solid State, <i>ACS Omega</i> , <a href="https://doi.org/10.1021/acsomega.2c04803">https://doi.org/10.1021/acsomega.2c04803</a> , <i>ACS Omega</i> <b>2023</b> , 8, 1, 373–379  (INTERNATIONAL: AMERICAN CHEMICAL SOCIETY)	4.132
10.	S. Banerjee, Rhodamine-azo based two fluorescent probes for recognition of trivalent metal ions: crystal structures elucidation and biological application, <i>Dalton Trans.</i> , <b>2022</b> , <a href="https://doi.org/10.1039/D2DT00399F">https://doi.org/10.1039/D2DT00399F</a> ,  (INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)	4.174
11.	S. Banerjee et. al. Synthesis and characterization of two polynuclear zinc(II) complexes and their applications in nitroaromatics sensing: An experimental and theoretical study, <i>Inorg. Chim. Acta</i> <b>2022</b> , 543, 121186, <a href="https://www.sciencedirect.com/science/article/abs/pii/S002016932200398X">https://www.sciencedirect.com/science/article/abs/pii/S002016932200398X</a>  (INTERNATIONAL: ScienceDirect, ELSEVIER)	3.118
12.	S.Banerjee et al. Synthesis, characterization and self assembly of dinuclear zinc Schiff base complexes: A combined experimental and theoretical study, <i>Polyhedron</i> , <b>2022</b> , 225, 116044, <a href="https://www.sciencedirect.com/science/article/abs/pii/S0277538722003965">https://www.sciencedirect.com/science/article/abs/pii/S0277538722003965</a>  (INTERNATIONAL: ScienceDirect, ELSEVIER)	2.975
13.	S. Banerjee et. al A mononuclear zinc complex with a diamine: Synthesis, characterization, self assembly, luminescence property and DFT calculations, <i>J. Mol. Struct.</i> , <b>2022</b> , 131598, <a href="https://www.sciencedirect.com/science/article/abs/pii/S0022286021017269">https://www.sciencedirect.com/science/article/abs/pii/S0022286021017269</a>  (INTERNATIONAL: ScienceDirect, ELSEVIER)	3.196
14.	S. Banerjee <i>et al.</i> , Role of non-covalent interactions in the supramolecular architectures of mercury(II) diphenyldithiophosphates: An experimental and theoretical investigation, <i>New J. Chem.</i> , <b>2021</b> , 45, 2249-2263, <a href="https://doi.org/10.1039/D0NJ05709F">https://doi.org/10.1039/D0NJ05709F</a>  (INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)	3.288

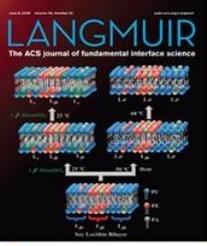
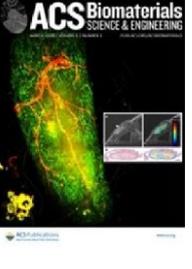
## Recent Selected Publications of Snehasis Banerjee

ORCID: [0000-0003-0888-5870](https://orcid.org/0000-0003-0888-5870)

Sl. No.	Journal Name/Volume/Page/Year		Impact Factor
15.	S. Banerjee <i>et. al.</i> , Accepted Manuscript, Phenoxo-bridged dinuclear mixed valence cobalt(III/II) complexes with reduced Schiff base ligands: Synthesis, characterization, band gap measurement and fabrication of Schottky barrier diodes, <i>Dalton Trans.</i> , 2021, <a href="https://doi.org/10.1039/D0DT03707A">https://doi.org/10.1039/D0DT03707A</a> ,  (INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)		4.174
16.	S. Banerjee*, An insight into the interaction between $\alpha$ -ketoamide- based inhibitor and CORONAVIRUS MAIN PROTEASE: A detailed in silico study, 269, 2021, 106510, <i>Biophysical Chemistry</i> <a href="https://doi.org/10.1016/j.bpc.2020.106510">https://doi.org/10.1016/j.bpc.2020.106510</a> (INTERNATIONAL: ScienceDirect, ELSEVIER)		3.3
17.	S. Banerjee <i>et. al.</i> , Field-Induced Single Molecule Magnet Behavior in a Dinuclear Cobalt(II) Complex: A Combined Experimental and Theoretical Study, <i>Dalton Trans.</i> , 2020, 49, 16778-16790, <a href="https://doi.org/10.1039/D0DT02158J">https://doi.org/10.1039/D0DT02158J</a>  (INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)		4.174
18.	S. Banerjee* <i>et. al.</i> , Understanding a Thermoemissive ESIPT-Based SolidState Off-On Switch as a Dual-Channel Chemosensor in Solid and Solution Phases: Detailed Experimental and Theoretical Study, <i>J. Phys. Chem. C</i> , 2020, 124, 33, 18181-18193, <a href="https://pubs.acs.org/doi/10.1021/acs.jpcc.0c04603">https://pubs.acs.org/doi/10.1021/acs.jpcc.0c04603</a>  (INTERNATIONAL: AMERICAN CHEMICAL SOCIETY)		4.188
19.	S. Banerjee <i>et. al.</i> , Synthesis, characterization, self-assembly and non-ohmic Schottky barrier diode behaviors of two iron(iii) based semiconductors with theoretical insight, <i>CrystEngComm</i> , 2020, 22, 5170-5181, <a href="https://pubs.rsc.org/en/content/articlelanding/2020/CE/D0CE00223B#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/CE/D0CE00223B#!divAbstract</a>  (INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)		3.756
20.	S. Banerjee* <i>et. al.</i> , Effect of Main Versus Ancillary Ligand Substitution on the Photophysical Properties of a Series of Ir(III) Complexes: A Detailed Theoretical Investigation, <i>J. Phys. Chem. A</i> 2020, 124, 23, 4654-4665, <a href="https://pubs.acs.org/doi/10.1021/acs.jpca.0c03102">https://pubs.acs.org/doi/10.1021/acs.jpca.0c03102</a>  (INTERNATIONAL: AMERICAN CHEMICAL SOCIETY)		2.94

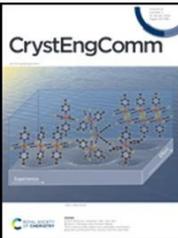
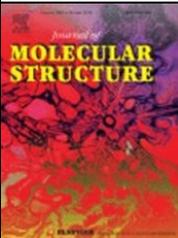
## Recent Selected Publications of Snehasis Banerjee

ORCID: [0000-0003-0888-5870](https://orcid.org/0000-0003-0888-5870)

21.	<p>S. Banerjee <i>et al.</i>, Biocompatible Aliphatic Terpolymers via In Situ Fluorescent Monomers for Three-in-One Applications: Polymerization of Hydrophobic Monomers in Water, <i>Langmuir</i> <b>2020</b>, 36, 22, 6178–6187, <a href="https://pubs.acs.org/doi/10.1021/acs.langmuir.0c00636">https://pubs.acs.org/doi/10.1021/acs.langmuir.0c00636</a></p> <p><b>(INTERNATIONAL: AMERICAN CHEMICAL SOCIETY)</b></p>		3.882
22.	<p>S. Banerjee* <i>et al.</i>, A theoretical insight on the rigid hydrogen-bonded network in the solid state structure of two zinc (ii) complexes and their strong fluorescence behaviors, <i>CrystEngComm</i>, 2020, <b>22</b>, 3005-3019, <a href="https://pubs.rsc.org/en/content/articlelanding/2020/ce/d0ce00125b#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/ce/d0ce00125b#!divAbstract</a></p> <p><b>(INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)</b></p>		3.756
23.	<p>S. Banerjee* <i>et al.</i>, Light-Emitting Multifunctional Maleic Acid-co-2-(N(hydroxymethyl)acrylamido)succinic Acid-co-N-(hydroxymethyl)acrylamide for Fe(III) Sensing, Removal, and Cell Imaging, <i>ACS Omega</i> <b>2020</b>, 5, 7, 3333–3345, <a href="https://pubs.acs.org/doi/abs/10.1021/acsomega.9b03536">https://pubs.acs.org/doi/abs/10.1021/acsomega.9b03536</a></p> <p><b>(INTERNATIONAL: AMERICAN CHEMICAL SOCIETY)</b></p>		2.870
24.	<p>S. Banerjee* <i>et al.</i>, Fluorescent Guar Gum-g-Terpolymer via In Situ Acrylamido-Acid Fluorophore-Monomer in Cell Imaging, Pb(II) Sensor, and Security Ink, <i>ACS Appl. Bio Mater.</i> <b>2020</b>, 3, 4, 1995–2006, <a href="https://pubs.acs.org/doi/abs/10.1021/acsaabm.9b01146">https://pubs.acs.org/doi/abs/10.1021/acsaabm.9b01146</a></p> <p><b>(INTERNATIONAL: AMERICAN CHEMICAL SOCIETY)</b></p>		3.25
25.	<p>S. Banerjee* <i>et al.</i>, Fluorescent Terpolymers Using Two Non-Emissive Monomers for Cr(III) Sensors, Removal, and Bio-Imaging, <i>ACS Biomater. Sci. Eng.</i> <b>2020</b>, 6, 3, 1397–1407, <a href="https://pubs.acs.org/doi/10.1021/acsbiomaterials.9b01849">https://pubs.acs.org/doi/10.1021/acsbiomaterials.9b01849</a></p> <p><b>(INTERNATIONAL: AMERICAN CHEMICAL SOCIETY)</b></p>		4.749
26.	<p>S. Banerjee* <i>et al.</i>, Magnetic Properties of End-to-End Azide-Bridged Tetranuclear Mixed-Valence Cobalt(III)/Cobalt(II) Complexes with Reduced Schiff Base Blocking Ligands and DFT Study, <i>ACS Omega</i> <b>2019</b>, 4, 24, 20634–20643, <a href="https://pubs.acs.org/doi/10.1021/acsomega.9b02764">https://pubs.acs.org/doi/10.1021/acsomega.9b02764</a>,</p> <p><b>(INTERNATIONAL: AMERICAN CHEMICAL SOCIETY)</b></p>		3.512

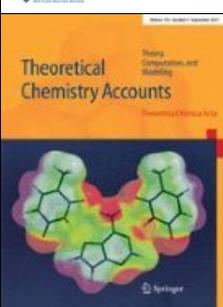
## Recent Selected Publications of Snehasis Banerjee

ORCID: [0000-0003-0888-5870](https://orcid.org/0000-0003-0888-5870)

27.	<p>S. Banerjee* <i>et. al.</i>, An insight into the non-covalent Pb ...S and S ...S interactions in the solid-state structure of a hemidirected lead(ii) complex, <i>CrystEngComm</i>, <b>2020</b>,<b>22</b>, 237-247, <a href="https://pubs.rsc.org/en/content/articlelanding/2020/ce/c9ce01548e#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/ce/c9ce01548e#!divAbstract</a></p> <p><b>(INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)</b></p>		3.756
28.	<p>S. Banerjee* <i>et. al.</i>, DFT study on the redox behavior of two dioxovanadium(v) complexes with N2O donor Schiff base ligands and their use in catalytic oxidation of ortho-aminophenol, <i>New J. Chem.</i>, <b>2019</b>, <b>43</b>, 18747-18759, <a href="https://pubs.rsc.org/en/content/articlelanding/2019/NJ/C9NJ04672K#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2019/NJ/C9NJ04672K#!divAbstract</a></p> <p><b>(INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)</b></p>		3.288
29.	<p>S. Banerjee <i>et. al.</i>, Multi-C-C/C-N-Coupled Light-Emitting Aliphatic Terpolymers: N-H-Functionalized Fluorophore Monomers and HighPerformance Applications, <i>Chemistry—A European Journal</i> <b>26</b>, <b>2020</b>, <b>502</b>, <a href="https://doi.org/10.1002/chem.201903935">https://doi.org/10.1002/chem.201903935</a></p> <p><b>(INTERNATIONAL: Wiley Interscience)</b></p>		5.236
30.	<p>S. Banerjee* <i>et. al.</i>, Relative stability of cis and trans isomers of octahedral cobalt(III) complexes of the type [Co(N2O2)X2] with tetradentate salen type Schiff bases: A combined theoretical and experimental study, <i>CrystEngComm</i>, <b>2019</b>,<b>21</b>, 6026-6037, <a href="https://pubs.rsc.org/en/content/articlelanding/2019/ce/c9ce00922a#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2019/ce/c9ce00922a#!divAbstract</a></p> <p><b>(INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)</b></p>		3.756
31.	<p>S. Banerjee <i>et. al.</i>, Synthesis, structure, DFT study and catechol oxidase activity of Cu(II) complex with sterically constrained phenol based ligand, <i>Journal of Molecular Structure</i>, <b>2019</b>, <b>1193</b>, <b>5</b>, 265-273, <a href="https://www.sciencedirect.com/science/article/abs/pii/S0022286019305216?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S0022286019305216?via%3Dihub</a></p> <p><b>(INTERNATIONAL: ScienceDirect, ELSEVIER)</b></p>		3.19
32.	<p>S. Banerjee <i>et. al.</i>, Fluorescent Terpolymers via In Situ Allocation of Aliphatic Fluorophore Monomers: Fe(III) Sensor, High-Performance Removals, and Bioimaging, <i>Advanced Healthcare Materials</i>, <b>2019</b>, <b>8</b>, 1900980, <a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/adhm.201900980">https://onlinelibrary.wiley.com/doi/abs/10.1002/adhm.201900980</a></p> <p><b>(INTERNATIONAL: WILEY Interscience)</b></p>		10.26

## Recent Selected Publications of Snehasis Banerjee

ORCID: [0000-0003-0888-5870](https://orcid.org/0000-0003-0888-5870)

33.	<p>Quantum chemical predictions of aqueous pKa values for OH groups of some <math>\alpha</math>-hydroxycarboxylic acids based on ab-initio and DFT calculations, Pages, <b>Computational and Theoretical Chemistry</b>, 29-38, 2017, <a href="https://doi.org/10.1016/j.comptc.2017.12.011">https://doi.org/10.1016/j.comptc.2017.12.011</a> ,</p> <p><b>(INTERNATIONAL: ScienceDirect, ELSEVIER)</b></p>		2.29
34.	<p>A mixed phenoxo and end-on azide bridged dinuclear copper (II) Schiff base complex: synthesis, structure, magnetic characterization and DFT study, DOI <a href="https://doi.org/10.1039/C8NJ02612B">https://doi.org/10.1039/C8NJ02612B</a>, <b>New J. Chem.</b>, 2018,42, 13512-13519</p> <p><b>(INTERNATIONAL: ROYAL SOCIETY OF CHEMISTRY)</b></p>		3.3
35.	<p>Understanding the difference in photophysical properties of cyclometalated iridium (iii) and rhodium (iii) complexes by detailed time-dependent density functional theory and frontier molecular orbital supports, . <b>J. Phys. Chem. C</b> 2017, 121, 21, 11632–11642, <a href="https://doi.org/10.1021/acs.jpcc.7b01573">https://doi.org/10.1021/acs.jpcc.7b01573</a></p> <p><b>(INTERNATIONAL: AMERICAN CHEMICAL SOCIETY)</b></p>		4.177
36.	<p>Understanding the ring-opening, chelation and non-chelation reactions between nedaplatin and thiosulfate: a DFT study based on NBO, ETS-NOCV and QTAIM, 2016, <b>Theo. Chem. Acc.</b> 1432-2234, <a href="https://link.springer.com/article/10.1007/s00214-015-1772-x">https://link.springer.com/article/10.1007/s00214-015-1772-x</a></p> <p><b>(INTERNATIONAL: SPRINGER)</b></p>		2.154
37.	<p>Synthesis, characterization, interactions with DNA and bovine serum albumin (BSA), and antibacterial activity of cyclometalated iridium(III) complexes containing dithiocarbamate derivatives, <b>Journal of Coordination Chemistry</b>, 2643-2660 ,67, 2014, <a href="https://doi.org/10.1080/00958972.2014.945924">https://doi.org/10.1080/00958972.2014.945924</a></p> <p><b>(INTERNATIONAL: Taylor &amp; Francis)</b></p>		1.869

Book Chapters:1.

- **Publisher** : LAP Lambert Academic Publishing (27 January 2016)
- **Language** : English
- **Paperback** : 68 pages
- **ISBN-10** : 3659834122
- **ISBN-13** : 978-3659834127
- **Item Weight** : 113 g
- **Dimensions** : 15.01 x 0.41 x 22 cm

## Recent Selected Publications of Snehasis Banerjee

ORCID: [0000-0003-0888-5870](https://orcid.org/0000-0003-0888-5870)

- **Country of Origin** : India
- [Buy A Brief Study of Computational Methods to Locate Reaction Mechanism Book Online at Low Prices in India | A Brief Study of Computational Methods to Locate Reaction Mechanism Reviews & Ratings - Amazon.in](#)

### 2. Language : English

- **ISBN-10** : 620549972X
- **ISBN-13** : 978-6205499726
- **Item Weight** : 143 g
- **Dimensions** : 15 x 0.48 x 22 cm
- **Country of Origin** : India
- [Thermodynamics for College Students : Snehasis Banerjee: Amazon.in: Books](#)

### 3.