

“YOUR BIO-MOLECULE”: A Molecule Story (40 points)

Please note that depending on molecule, not all questions might be relevant. Those questions are meant to help you with combine relevant information for the essay and its role in organic electronics.

10 pages maximum, reference not included.

ABSTRACT (5 points)

Brief summary of the overall content of the essay. An outline might be included here, if needed.

INTRODUCTION & BACKGROUND (5 points)

When has the molecule been discovered? By whom?

What was the molecule used for?

What is the molecule (virus, bacteria, polymer, etc.)?

“BIOMOLECULE’S STRUCTURE (12 points)

What is the structure of the molecule? How was it determined?

Which properties does the structure confer to the molecule?

What are the main properties and role of this molecule?

“BIO-MOLECULE” PROPERTIES (15 points)

(you can refer to any of the spectroscopy techniques in the course)

Does the biomolecule have a specific spectroscopic signature? Does the biomolecule have a specific morphology? Which information can be retrieved in addition to the structure?

Does the biomolecule have specific optical properties?

Are these properties specific of the chosen biomolecule?

REFERENCES (3 points)

(1)

(2)

(3)

Note: *Always cite your sources* when you are sharing information (scientific papers and books are preferred, Wikipedia is not a *peer-reviewed* source).