

**Dr. rer. nat. Wafa Maftuhin, M. Sc.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Position** | ***Lecturer of Physics in Department of Physics*** | | | |
|  | | | |
| ***Degree*** | ***University*** | ***Year*** | |
| **Academic career** | **Bachelor** at Physics | University of Brawijaya - Indonesia | 2011-2015 | |
| **Master** at Physics | National Central University -Taiwan | 2015-2017 | |
| **Doctoral** at Physics | University of Freiburg, Germany | 2019- 2023 | |
| **Postdoctoral** Researcher | University of California-Riverside, USA | 2023- 2024 | |
| **Employment** | ***Position*** | ***Employer*** | ***Period*** | |
| Lecturer in Applied Physics study program | Sampoerna University - Indonesia | 2017- 2019 | |
| Postdoctoral Researcher | University of California-Riverside - USA | 2023- 2024 | |
| Lecturer in Physics study program | Universitas Negeri Surabaya - Indonesia | 2024- now | |
| **Important publications over the last 5 years** | Title | | | Year |
| An efficient optimization algorithm that hybridizes DFTB and DFT theories both operated within the modified basin hopping method. 2019. Computer Physics Communications, Volume 236, March 2019, Pages 164-175  A mechanochromic donor-acceptor torsional spring. 2021. Nature Communications, volume 12, Article number: 4243  Conformer Ring Flip Enhances Mechanochromic Performance of ansa-Donor-Acceptor-Donor Mechanochromic Torsional Springs. 2022. J. Am. Chem. Soc. 2022, 144, 48, 21897–21907  Force Dependent Barriers from Analytic Potentials within Elastic Environments.. 2022. ChemPhysChem, 2022, 23, e2022002.  Organogels from Diketopyrrolopyrrole Copolymer Ionene/Polythiophene Blends Exhibit Ground-State Single Electron Transfer in the Solid State. Macromolecules 2022, 55, 12, 4979–4994  Phenothiazine-based donor-acceptor polymers as multifunctional materials for charge storage and solar energy conversion. 2024. Macromolecular Rapid Communications | | | 2019  2021   2022    2022     2022  2024 |