

Arinola Isa Olamilekan

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Educational Institutions Attended with Dates

- Kyungpook National University, South Korea **2019 - 2021**
- Obafemi Awolowo University, Ile-Ife, Nigeria **2011 – 2016**
- Origbo School of Science, Ipetumodu, Osun State, Nigeria **2001 – 2007**

Qualifications Obtained with Dates

- M.Sc. Edu (Chemistry Education) (A+) **2021**
- B.Sc. Edu (Chemistry Education) (Upper division) **2016**
- Common European Framework of Reference for Languages (CEFR) (C1=7.0 IELTS). **2021**

Scholarships and Awards Received

- Monash International Student Scholarship, Monash (Australia) **2022**
- KING Scholarship, Kyungpook National University, South Korea **2021**
- Research Assistant, Kyungpook National University, South Korea **2019-2021**
- KING Scholarship, Kyungpook National University, South Korea **2019-2020**

Skills and Competences

- PowerPoint, Excel, Microsoft Word, outlook Express, SPSS, Access.
- Organic Synthesis.
- Cyclic Olefin Copolymer and Polymer's Development.
- General Atomic and Molecular Electronic Structure System(GAMESS)
- Density Functional Theory Calculation.
- Origin 2019 data analysis and MestReNova data analysis.
- Differential Scanning Calorimetry (DSC), Polarized Optical Microscope (POM).
- IR, UV, ¹H and ¹³C NMR.

Research Interest

- Total Organic Synthesis
- Synthesis of functional organic materials.
- Liquid crystals, epoxy, vitrimers, elastomers, composites and optical materials.
- Polymers, cyclic olefine compound.

Working Experience

- Opekete Suites, Ondo, Ondo State. Nigeria. (housekeeper) **2017-2018**
- Olympic Park, Seoul, South Korea (General cleaner) **2019-2021**
- Meriton Suite, 234 Sussex St. Sydney. Australia (Housekeeper) **2022-2022**

Research Experience

- **Research Assistant**, Department of Chemistry Education, Kyungpook National University, Daegu South Korea **2019-2022**
- **Master Researcher**, Department of Chemistry Education, Kyungpook National University, Daegu South Korea **2019-2020**
- **Visiting Science practical tutor**, Al-eeman School of Science, Ibadan, Nigeria. **2015-2019**
- **Undergraduate Researcher**, Department of Chemistry Education, Obafemi Awolowo University, Ile-Ife. Nigeria **2011-2016**

Publications

Dissertation and Theses

D1. **Olamilekan, A. I.**; Yeo, H*, “Synthesis of twin liquid crystal epoxy resin; mechanical properties improvement and curing reaction” (**M.Sc. Edu. 2021, Theses**).

D2. **Olamilekan A.I.**; Odutuyi, O.O*, “Synthesis and modification of chemical and physical properties of activated carbons for water purification” (**B.Sc. Edu. 2016. Theses**)

Peer-Reviewed Articles

J1. Hossain, M.; **Olamilekan A. I.**; Jeong, H.-O.; Lim, H.; Kim Y.-K.; Cho, H.; Jeong, H. D.; Islam, A.; Goh, M.; You, N.-H.; Kim, M. J.; Choi, S. Q.; Hahn, J. R.*; Yeo, H.*; Jang, S. G.*, “Diacetylene-Containing Dual-Functional Liquid Crystal Epoxy Resin: Strategic Phase Control for Topochemical Polymerization of Diacetylenes and Thermal Conductivity Enhancement”, *Macromolecules*, **2022**, 55, 4402-4410 ([Link](#)) (**FEATURED IN COVER PAGE**)

J2. **Olamilekan, A. I.**; Yeo, H.*, “Thermal conducting thermosets driven by molecular structurally enhanced mesogen interactions”, *ACS Appl. Polym. Mater.*, **2021**, 3, 4147–4155. ([Link](#))

J3. **Olamilekan, A. I.**; Yeo, H.*, “Curing Behavior of 4,4'-Diglycidylxybiphenyl with p-

Phenylene Diamine Derivatives”, *Macromol. Res.*, **2020**, 28, 960–967. ([Link](#))

(FEATURED IN COVER PAGE).

J4. **Olamilekan, A. I.**; En, T. T.; Yeo, H.*, Synthesis and self-organization of main-chain liquid-crystalline polymers with controllable aliphatic spacer lengths. (submitted)

Conference Paper

C1. Olamilekan, A. I.; Yeo, H.*, Synthesis of twin mesogenic liquid crystalline epoxy based on phenyl benzoate (IUPAC MACRO2020+ Polymer conference **2021**).

C2. Olamilekan, A. I.; Yeo, H.*, Synthesis and properties of epoxy resin thermoset with ester bridge in mesogenic core structure (The Polymer Society of Korea **2021** Fall Meeting). ([Link](#))

Membership of Professional Bodies/Conferences Attended

Conferences and Workshop Attended

- IUPAC MACRO2020+ Polymer conference **2021** **Role:**
Presenter/Graduate
- The Polymer society of Korea **2021** **Role:**
Presenter/Graduate
- Korea Chemical Society, **2021** **Role:**
Presenter/Graduate
- The Polymer society of Korea **2020** **Role:**
Participant/Graduate
- Korea Chemical Society, **2020** **Role:**
Participant/Graduate

REFERENCES

- Dr. Adelodun Bashir
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Federal University of Ilorin, Ilorin, Nigeria
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