

CURRICULUM VITÆ

Dare, Enock Olugbenga, PhD Chem (Ilorin); Adv. Res. P.Dip. Chem. Eng. (TIT, Tokyo); MRSC; HUMBOLDT FELLOW; FULBRIGHT/USAMI fellow; UNESCO fellow; MONBUSCHO fellow; Taiwan National Science Foundation fellow; SCIAS Wurzburg Univ. fellow-----

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URL (1): <https://funaab.edu.ng/dr-dare-enock-olugbenga/>

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Google scholar: <https://scholar.google.com/citations?user=H2JCKhYAAAAJ&hl=en>

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CITATION

Enock Olugbenga Oladepo DARE (EOOD) is presently the first Professor of Nanotechnology in Nigeria. He is a seasoned chemist, distinguished scholar and researcher of high repute. He holds a Ph.D in Chemistry of the University of Ilorin, Nigeria and Advanced Research Diploma (M.Eng.) in Chemical Engineering of Tokyo Institute of Technology, Japan. He had a postdoctoral training at Princeton University, NJ, USA. EOOD is an outstanding international scholar and widely travelled having visited all continents (over 30 countries) in the world through international collaboration cooperation. He is a UNESCO and MONBUSHO fellow (Japan); USAMI/FULBRIGHT fellow (Princeton University, USA); Taiwanese National Science Foundation fellow (Academia Sinica, Taiwan); ICTP, Trieste, Italy e.t.c. To crown it all, he recently got one of the world most prestigious Alexander von Humboldt (AvH) – Georg Forster fellowship which accorded him a fellow of SCIAS, Wurzburg University, Germany. In recognition of his excellent performance in Germany and as re-integration process, Humboldt further accorded him a “return fellowship” while in Nigeria in the year 2020 to advance his research mission in Forensic, Sensor and Bioimaging. EOOD is at the forefront of Nanotechnology research in Africa. He remains a major player in the Nigeria Nanotechnology Initiatives of 2006 that brought Nanotechnology into limelight in Nigeria. He has made excellent research output in organic-inorganic nanohybrids, photochemistry, sustainable chemistry, metal, metal-oxide nanoparticles, surface chemistry, ceramic, drug delivery, polymerization, theoretical chemistry e.t.c leading to functional nanomaterials. His most current research lies on “nano-enabled fluorescent materials for forensic anti-counterfeiting, latent fingerprinting, cellular bioimaging, and Triboelectric Nanogenerator powering food spoilage sensor. Furthermore, he is the brain behind the innovation behind a point-of-use nanoporous water purification technology that accorded him a national award as the 2nd best at the National Universities Research and Development Fair (NURESDEF 2012). It was on this note that EOOD feature occasionally on NUC-sponsored “voyage of discovery” AIT and NTA as he demonstrates the new technology. It is worth of note that several other awards, grants and commendations are to his credit. He was “Innovation and Invention” awardee of NASENI. The governing council of the Federal University of Agriculture, Abeokuta (FUNAAB) commended him “for breaking new grounds in Chemistry” in the year 2014. He is the author/co-author of over 130 scientific publications (Citation 3041; h-index 28) (7 Patents inclusive). For example, the first invention with productive patent (United State of America Patent **US 2024/0408010 A1**) is about nanoemulsified phytodrug for transdermal treatment of diabetes. The second invention (United State of America Patent **US Patent:11,065,602B2**, World Intellectual Property Organization WIPO **WO 2018/055566 A1** and NOTAP Patents **NG/2018/278**) discovered novel nanofibrous sorbent with propensity to separate crude oil/water and total management of crude oil spill e.t.c. He has given more than 40 invited lectures (plenary and keynotes) at various conferences world-wide. EOOD recently presented the 78th Inaugural lecture of his University entitled “Nanotechnology as size-powered harbinger of the 21st century technological revolution. EOOD has produced 11 Doctors (Ph.Ds), some of whom has gained tenure at prestigious institutions nationally and internationally.

Administratively, EOOD was (1) Former Coordinator, Chemistry Department, FUNAAB (2) Former Head of Department, Chemistry, FUNAAB (3) Former Director of Academic Planning, Federal University Lafia where he pioneered the strategic planning activities of the University (4) Trained to acquire additional certificates in administration: (i) Teamwork, Innovation and Development and (ii) Strategic leadership.

He is grateful to God and his missionary parents (Bishop and Mrs A.S. Dare) and Elderstateman, Late Chief. Dr. Chris. Ogunbanjo, who contributed to his moral value and Prof. Wole Soboyejo for his mentorship.

01. PERSONAL DATA

- (i) Name in Full : **DARE ENOCK OLUGBENGA**
- (ii) Date of Birth : 26th. August, 1970
- (iii) Place of Birth/State/LGA : Iree/Osun/Boripe
- (iv) Sex : Male
- (v) Marital Status : Married
- (vi) Nationality : Nigerian

(vii) Website: <https://funaab.edu.ng/dr-dare-enock-olugbenga/>

www-oc.chemie.uni-regensburg.de/diaz/members.php

02. (ii) EDUCATIONAL BACKGROUND

- University of Ilorin, Ilorin Chemistry B.Sc. 1989
- University of Ilorin, Ilorin Synthetic Chemistry M.Sc. 1993
- Tokyo Institute of Technology, Tokyo Chemical Engineering Adv. Res. Dip. 2001
- University of Ilorin, Material Chemistry Ph.D. 2005
- International Top Executive Training Program
(Teamwork, Innovation, Growth & Development) 2012
- Executive Training Programme
(Strategic leadership) 2013

FELLOWSHIPS

FELLOWSHIPS:

- (a) MONBUSHO Fellowship (2000), Tokyo Institute of Technology, Tokyo, Japan
- (b) UNESCO Fellowship (2000), Tokyo Institute of Technology, Tokyo, Japan
- (c) Taiwan National Science Foundation Fellowship (2001), Academia Sinica, Taipei
- (d) USAMI Postdoctoral Visiting Fellowship (2008), Princeton University, NJ, USA
- (e) NANOAFNET Visiting Fellowship (2009), iThemba labs, Somerset West, South Africa.
- (f) National University of Singapore Fellowship (2011)
- (g) Regular Associate, ICTP, Trieste, Italy.
- (h) Alexander von Humboldt fellow (Georg Forster) (Regensburg University, Germany) 2017-2019
- (i) Alexander von Humboldt fellow (Renewed fellowship) (Wurzburg University, Germany) 2021-2022

(iii) Prizes, Honours, Scholarship, National and International Recognition

- | | | |
|---|---|---------------|
| a. MiCom Foundation for Educational Development | - | 1992 |
| b. MONBUSHO/UNESCO Fellowship:
Tokyo Institute of Technology, Japan | - | (2000-2001) |
| c. Taiwan National Science Foundation Fellowship:
Institute of Chemistry, Academia Sinica,
Taipei, Taiwan | - | (2001-2003) |
| d. Nanofluidics, ICTP, Trieste, Italy | - | 2007 |
| e. USAMI/FULBRIGHT:
(US-AFRICA MATERIAL INSTITUTE AWARD)
Princeton University Princeton, NJ, USA. | - | (2008 – 2009) |
| f. NANOAFNET
(NANOtechnology AFrica NETwork AWARD)
Ithemba Labs, Somerset West, South Africa; | - | 2010 |
| g. Innovation and Invention Prize and Award
(NASENI – Federal Ministry of Science
and Technology) | - | 2011 |
| h. National University Research and Development Fair
(NURESDEF 2012 RESEARCH AWARD)
(2 nd position) in NUC Individual Award in R & D | - | 2012 |
| i. Alexander von Humboldt fellow (Georg Forster)
(Regensburg University, Germany) | | 2017-2019. |
| j. Alexander von Humboldt (Renewed fellowship)
(Wurzburg University, Germany) | | 2021-2022 |

GRANTS

- 2006: RESDEC 2006 RESEARCH AWARD (RG 189), FEDERAL UNIVERSITY OF AGRIC. ABEOKUTA
- 2007: RESDEC 2007 RESEARCH AWARD (RG 194), FEDERAL UNIVERSITY OF AGRIC. ABEOKUTA
- 2008: RESDEC 2007 RESEARCH AWARD (RG 218), FEDERAL UNIVERSITY OF AGRIC. ABEOKUTA
- 2009: TWAS RESEARCH AWARD, GRANT NO. 08-003 LDC/CHE/AF/AC-UNESCO, FR:3240184280
- 2010: NATIONAL SCIENCE FOUNDATION, USA. (DMR 0231418); \$1,500,000. (In collaboration with Prof. Wole Soboyejo)

➤ 2013: TETFUNG FUNAAB GRANT OF N1.35 MILLION (DGM-01-2012)

➤ 2019: TETFUND, IBR

02. WORK EXPERIENCE

[1] NATIONAL WORKING EXPERIENCE

(a) University/Institute Working Experience

(i) **Professor** (1st October 2015 till date)

(ii) **Associate Professor** (1ST October, 2012 – Sept. 2015)

Department of Chemistry, Federal University of Agriculture, Abeokuta

(b) **National Agency for Science and Engineering Infrastructure (NASENI)** [Research fellow]

2010- 2012

(c) **Center for Energy Research and Development (CERD), OAU, Ile-Ife** [Research fellow]

2010-2012

(d) **Federal University Lafia, Nasarawa State (Sabbatical).** Director of Academic Planning

(2012 – 2014)

[2] INTERNATIONAL WORKING EXPERIENCE

(a) **MONBUSCHO/UNESCO Fellow**

Tokyo Institute of Technology, Japan (Oct 2000 – Sept 2001)

(b) **Research Assistant** (Dec. 2001 – Jan. 2003)

Institute of Chemistry, Academia Sinica, Taipei, Taiwan.

Duties: Research Assistant to Prof. Ling – Kang Liu

(c) **Visiting Research Fellow** (2008 – 2010)

Department of Chemical Engineering, Princeton University, NJ, USA

Duties: Research fellow and postgraduate project supervision.

(d) **Alexander von Humboldt Fellow** (October 2017 – June 2019):

Regensburg University, Germany.

(e) **Alexander von Humboldt fellow and SCIAS fellow** (Nov 2021- Jan 2021)

Wurzburg University, Wurzburg, Germany

Details of Teaching Experience in the last two years

S/N	COURSE CODE	COURSE TITLE	NO. OF STUDENT	PARTICIPATION STATUS (%)
1	CHM 101	INTR. PHYSICAL CHEM	3100	19
2	CHM 104	INTR. INORG. CHEM	3100	19
3	CHM 191	PRACT. CHEM	2730	19
4	CHM 291	EXPTAL CHEM I	488	50

5	CHM 292	EXPTAL CHEM II	488	50
6	CHM 309	IND. RAW. MATER. RES. INV.	81	100
7	CHM 395	EXPTAL INORGANIC CHEM	72	50
8	CHM 408	IND. CHEM TECH.	83	100
9	CHM 491	ADV. EXPTAL CHEM	83	20

S/N	COURSE CODE	COURSE TITLE	NO. OF STUDENT	PARTICIPATION STATUS (%)
1	CHM 101	INTR. PHYSICAL CHEM	3300	19
2	CHM 191	PRACT. CHEM	2730	19
3	CHM 291	EXPTAL CHEM	488	50
4	CHM 309	IND. RAW. MATER. RES. INV.	488	50
5	CHM 408	IND. CHEM. TECH	78	100
6	CHM 413	MECH ORGANIC REACTION	78	100
7	CHM 745	ADV. IND. CHE. PROCESS	11	50
8	CHM 886	ADVANCED NANOTECHNOLOGY	11	2

POSTGRADUATE COURSES TAUGHT

S/N	COURSE CODE	COURSE TITLE	NO. OF STUDENT	PARTICIPATION STATUS (%)
1	CHM 745	ADV. IND. CHE. PROCESS	11	50
2	CHM 751	IND. CHEM. TECHN.	11	50
3	CHM 748	POLY TECHN.	10	50
4	CHM 753	ENVIRONMENTAL/WASTE MANAG	8	50
5	CHM 782	UNIT OPERATION/HEAT EXCHANGE	11	100
6	CHM 785	LABORATORY TECHNIQUES	11	50

03. SPECIAL ASSIGNMENTS / LEADERSHIP ROLE

- (i) **Head of Department of Chemistry**, Federal University of Agriculture, Abeokuta (2015 – 2017)
- (ii) **Coordinator**, Department of Chemistry, Federal University of Agriculture, Abeokuta (Feb. 2006 – May 2006)
- (iii) **Coordinator**, Postgraduate Studies, Department of Chemistry FUNAAB (2006 - 2010)
- (iv) **Director of Academic Planning**, Federal University, Lafia, Nasarawa State (2012– 2013)
- (v) **Supervisor**, Grand Challenges for water purification program for Eweje rural Community in Odeda local Government of Ogun state (<http://sig.ias.edu/files/pdfs/USAMI-RISE-Presentation.pdf>).
- (vi) **Member of University Committees:** Member, Equipment and Central Laboratory Committee (2006)
- (vii) **Member**, Research Ethic Development (2011) handled by IFSERAR
- (viii) **Member**, College linkage/partnership (2011)

- (ix) **External Examiner:** (M.Sc.Thesis) Department of Material and Engineering, Obafemi Awolowo University, Ile – Ife. (Appointment letter available)
- (x) **External Examiner:** (M.Sc.Thesis) Department of Physics, UNN, Nssuka
- (xi) **External Examiner:** (Ph.D. Thesis of Kibechu R.W.; Student No. 201249446) , Faculty of Science, University of Johannesburg, South Africa. January 2016 (Professor Titus Msagati’s student). (Appointment letter available)
- (xii) **External Examiner:** (Ph.D. Thesis of Sourbh R.W.; Student No. 2014494970) , Faculty of Science, University of Johannesburg, South Africa. December 2016. (Prof. Tayo Arotiba’s student) (Appointment letter available)
- (xiii) **External Assessor:** Appointed by the Presidency to assess Prof. Omowumi Sadik of New York State University, USA, for Nigerian National Merit Award (Appointment letter available)
- (xiv) **External Examiner:** (Ph.D. Thesis of Amrita Kaurwar (), Indian Institute of Technology, Jodhpur, Mechanical Engineering. June 2018.
- (xv) **Nanotechnology Trainer:** Invited as the sole trainer of over 200 academic from almost all Universities in Nigeria. Staffs from Universities and Research Institutes applied to be trained in the field of Nanotechnology in a workshop organized by National Agency for Science and Engineering Infrastructure.
- (xvi) **Conference Plenary Lecturer: E.O. Dare** (Invited Plenary lecture) “Sensor: Eye and Ear of a machine” at Nigerian Material Congress (NIMACON 2010)
- (xvii) **Conference Plenary Lecturer: E.O. Dare** (Invited Plenary lecturer) Nanobio and Bionano Technology: A revolution of functional Materials for a Sustainable “Soft Age” (NIMACON 2012) held at Centre for energy research and Development, Obafemi Awolowo University, Ile – Ife. November 20 – 24, 2012.
- (xviii) **Keynote speaker:** LAUTECH Nanoconference 2017
- (xix) **Conference Plenary Lecturer: E.O. Dare** (Invited Plenary lecture: African International Conference/Workshop on Application of Nanotechnology for Energy, Environment and Health) July 16, 2018: Threatening Sociological – Environmental Nexus and Criminalities of all kinds, Nanotechnology’s race to offer Forensic Mitigation to the Society
- (xx) **Nano-conference Keynote Speaker:** LAUTECH/NASDR 2022: The Narrative of transformation to circular economy via sustainable nanotechnology. Nov. 22-25, 2023
- (xxi) **Humboldt Kolleg 2023:** Plenary speaker: Circularity paradigm: Roles of sustainable nanotechnology.
- (xxii) **78th Inaugural lecturer** of my University (FUNAAB) entitled “Nanotechnology as size-powered harbinger of the 21st century technological revolution”. **June 21, 2023.**

04. TRAINING/TRAINER PROGRAMME ATTENDED (WITH DATES)

- (i) Grant – winning proposal training program organized by RESDEC, UNAAB in 2006.
- (ii) Nanofluidic course at ICTP, Trieste, Italy (2007)
- (iii) **Nanotechnology Trainer:** Appointed as the sole **trainer** of over 200 scientists from various Universities/Institutes in Nigeria.
- (iv) International Top Executive Training Program (Teamwork, Innovation, Growth & Development) Held at M Plaza Hotel, Accra, Ghana, 26TH – 30TH Nov. 2012.
- (v) Executive Training Programme (Strategic leadership) Held at Obudu Mountain Resort, July 24 – Aug 2, 2013.

05. COMMENDATION

(i) FUNNAB GOVERNING COUNCIL COMMENDATION (2014):

Commendation Letter from the University Governing Council in 2014 for breaking new grounds in Chemistry

(ii) Appreciation letter from the Federal University Lafia for the pioneering efforts as Acting Director of Academic Planning and contributions towards the University.

06. MEMBERSHIP OF PROFESSIONAL BODIES

- a. Material Society of Nigeria (2005 till date)
- b. Material Research Society, USA (2010 till date)
- c. Chemical Society of Nigeria (2005 till date)
- d. Royal Society of Chemistry (2014 till date)

07. RESEARCH INTEREST OR COMMISSIONED PROJECTS

Field of Research: Nanotechnology and Material Chemistry.

Over the years and till the present moment, I have engaged in productive research revolving around [1] organic-inorganic nonohybrids [2] Photochemistry [3] Sustainable chemistry [4] Metal, Metal-oxide nanoparticles [5] Surface chemistry [6] Ceramic [7] Drug delivery [8] Polymerization and [9] Theoretical chemistry. The major precursor for [1] and [2] has been highly nanoscopic Polyhedral Oligomeric Silsesquioxane (POSS) whose structural anatomy is as shown

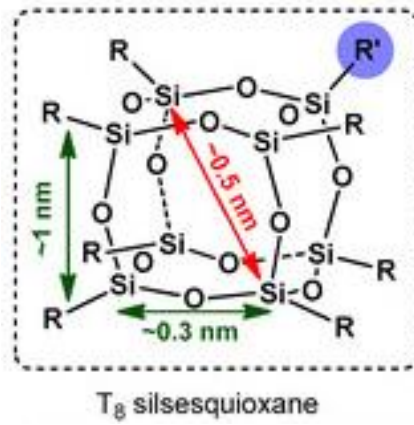


Figure 1: POSS anatomy

My holistic research dynamics leading to various functional materials for device application is as shown in figure 2. I have published in all the highlighted research tentacles.



Figure 2: General overview of my research engagements overtime leading to functional nanomaterials

08. PUBLICATIONS

(ii) JOURNAL ARTICLES IN PRINT, BOOKS AND PATENTS

1. Fatai Oladoyinbo, Dunni Elebiju, Fatai Akinwunmi, Onome Ejeromedoghene, Yakubu Adekunle Alli, Samson Alayande, Saliu Amolegbe, Adetunji Rasaq Olayide, David Diaz, **Dare Enock** (2024): Ceramic Bowl-Supported Nanofibrous Membrane with Fluorinated Silsesquioxane-inspired Switchable Surfaces for Successive Crude Oil/Water Separation and Secondary Water Treatment, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 686, 133224. <https://doi.org/10.1016/j.colsurfa.2024.133224>
2. Samuel Kehinde, Oluwatobi Adelesi, Regina Ngozi Ugbaja, Enock Dare, and Oladipo Ademuyiwa (2024): Titanium dioxide nanoparticles induce energy perturbation by stimulating glycolytic metabolic profile in rats. *Life Sciences, Medicine and Biomedicine*. 8, 156. DOI <https://doi.org/10.28916/lsm.8.1.2024.156>.
3. Joseph Olugbojo, Adeolu Akinyemi, Samuel Olubodun and Dare Enock (2024): Comparative Studies on Antibacterial Potentials of Biosynthesized Cerium Oxide and Zinc Oxide Nanoparticles Against Fish Pathogens. *Egyp. J. Aqua. Bio & Fisheries* 28, 1733 – 1754.
4. Joseph Olugbojo, Adeolu Akinyemi, Samuel Olubodun and Dare Enock (2024): Extraction and Utilization of Chitin and Chitosan from Waste Yields of Economically Important Crustaceans and Molluscs for Improved Fish Production. *Asian Journal of Fisheries and Aquatic Research* 26, 95-114. <https://doi.org/10.9734/ajfar/2024/v26i8799>
5. **Enock O. Dare,*** T.F. Akinhanmi, J.A. Aremu, R.A. Adetunji, Janet T. Bamgbose, Victoria Vendrell-Criado, M. Consuelo Jiménez, Raúl Pérez-Ruiz, Sebastian Bonardd, David Díaz Díaz (2023): Dual-mode colorimetric/fluorescent chemosensor for Cu²⁺/Zn²⁺ and fingerprint imaging based on rhodamine ethylenediamine bis(triazolyl silsesquioxane) nanohybrid" *Photochemical & Photobiological Sciences*. <https://doi.org/10.1007/s43630-023-00395-4>
6. **Enoch Dare**, Blessing Adanu-Ogbole, Fatai Oladoyinbo, Festus Makinde, Anthony Okechukwu Uzosike (2023): Synthesis and characterization of silver–zinc oxide nanocomposites for humidity sensing. *Nano Select*; 4, 255-262. DOI: 10.1002/nano.202200106. published by Wiley-VCH GmbH.
7. Abayomi Bamsaye, Catherine O. Eromosele, **Enock O. Dare**, Oluseyi A. Akinloye, Mopelola A. Idowu, Osasenaga M. Ighodaro and Sivakumar Manickam (2023): Fabrication, characterization, antimicrobial, toxicity and potential drug-delivery studies of PEGylated Sesamum indicum oil based nanoemulsion system. *Beni-Suef Univ J Basic Appl Sci*. 12:33. <https://doi.org/10.1186/s43088-023-00371-y>

8. Oladoyinbo F.O., Sanni F.O., Akinwunmi F., Amusa K., Ganiyu S.A., Ayinde W.B., Aremu J.A., Yusuf Q.O., Akinlabi A.K. and Dare E.O. (2023): Structural Investigation of Hetero-structured core-shell Ag-SiO₂ nanohybrid as a potential agro-sensor material. *J. Chem. Soc. Nig*, 48, 1000 - 1013
9. Solomon O. Olagunju, Muftau O. Atayese, Olalekan S. Sakariyawo and Enoch O. Dare (2022): Effects of multi-growth stage water deficit and orthosilicic acid fertiliser on lodging resistance of rice cultivars. *Crop & Pasture Science*. 73(4) 370-389 <https://doi.org/10.1071/CP21563>
10. Dare, E. O.; Vendrell-Criado, V.; Jiménez, M. C.; Pérez- Ruiz, R.; Díaz Díaz, D. (2021): Highly efficient latent fingerprint detection by eight-dansyl-functionalized octasilsesquioxane nanohybrids. *Dyes and Pigment*, 184, 108841. <https://doi.org/10.1016/j.dyepig.2020.108841>
11. Dare, E. O.; Vendrell-Criado, V.; Jiménez, M. C.; Pérez- Ruiz, R.; Díaz Díaz, D. (2020): Novel fluorescent labeled octasilsesquioxanes nanohybrids as potential materials for latent fingerprinting detection. *Chemistry—A European Journal* 26, 13142 – 13146. doi.org/10.1002/chem.202001908
12. Sunmonu, R.S., Akinlami, J.O., Dare, E.O., Adebayo, G.A. (2020): DFT – GGA calculations of magnetic, elastic, thermodynamic and thermoelectric properties of Co₂YAl (Y = Ti, V) full Heusler alloy systems. *Materials Science & Engineering B* 262, 114739. <https://doi.org/10.1016/j.mseb.2020.114739>.
13. Solomon O. Olagunju, Muftau O. Atayese, Olalekan S. Sakariyawo, Enoch O. Dare & Adesola L. Nassir (2020): Culm Morphological Traits Contributing to Lodging Resistance in First Generation NERICA Cultivars Under Foliar Application of Orthosilicic Acid Fertilizer. *Silicon*. 1-15. <https://doi.org/10.1007/s12633-020-00652-6>
14. Olagunju S.O, Sakariyawo O.S, Atayese M.O, Dare E.O, Nassir A.L, Adesina E.H (2020) Analyses of grain yield components of selected upland rice grown in valley bottom soil under rates of foliar ortho- silicate acid fertiliser. *African Crop Sci J* 28(1):79–92. DOI: <https://dx.doi.org/10.4314/acsj.v28i1.10>
15. Labulo, A.H, Adesuji, E.T., Oseghale, C.O., Elemike, Usman A., Akinlabi, A.K. Dare, E.O. (2020): Effect of Benzophenone on the Physicochemical properties of Nitrogen-doped-CNT synthesized from 1-Ferrocenylmethyl(2-methylimidazole) Catalyst. *J. Nig. Soc. Phys. Sci. 2 (2020) 205–217*. DOI:10.46481/jnsps.2020.105
16. Adesusi, O.M., Adetunji, O.R., Ismaila, S.O. Dare, E.O. (2020): Electrochemical Inhibitory Effects of Non-edible Vegetable Oils on Low-Alloyed Low Carbon Steel in H₂SO₄. *J Fail. Anal. and Preven.* 20, 159–172. <https://doi.org/10.1007/s11668-020-00808-x>

17. Oyesolape B. Oyelaja-Akinsipo, **Enock O. Dare**, Deepshikha P. Katare (2020): Protective role of diosgenin against hyperglycaemia-mediated cerebral ischemic brain injury in zebrafish model of type II diabetes mellitus. *Heliyon*, 6, e03296, 1-10.
18. Anuoluwa Abimbola Akinsiku, Olayinka Oyewale Ajani, Joseph Adeyemi Adekoya, Moses Eterigho Emeteri and **Enock Olugbenga Dare** (2020). Green Synthesis of triclinic (anorthic) phase AgCoPO₄ nanoparticles: Optical studies and theoretical modelling. *Heliyon*, 6, e05029
19. Anuoluwa Abimbola Akinsiku, Joseph Adeyemi Adekoya, Olayinka Oyewale Ajani, **Enock Olugbenga Dare** (2020). Nicotiana tabacum Mediated Green Synthesis of Silver Nanoparticles and Ag-Ni Nanohybrid: Optical and Antimicrobial Efficiency. *Indones. J. Chem.* 21, 179 – 191.
20. Olanrewaju M. Adesusi . Olayide R. Adetunji . Salami O. Ismaila . **Enock O. Dare**. Tunji J. Erinle . Olumide O. Akinpelu (2020): Electrochemical Inhibitory Effects of Non-edible Vegetable Oils on Low-Alloyed Low Carbon Steel in H₂SO₄. *J Fail. Anal. and Preven.* 64, 1-14.
<https://doi.org/10.1007/s11668-020-00808-x>
21. R.S. Sunmonu, J.O. Akinlami, **E.O. Dare** and G.A. Adebayo (2019): Effects of Y atom substitution on the structural, magnetic, electronic, elastic, mechanical, thermodynamic and thermoelectric properties of Co₂YAl (Y = Cr, Mn) Full Heusler alloys from first principles investigations. *Computational Condensed Matter* 21, 00412. <https://doi.org/10.1016/j.cocom.2019.e00412>.
[http://ees.elsevier.com/cocom/default .asp](http://ees.elsevier.com/cocom/default.asp)
22. Anuoluwa Abimbola Akinsiku, Kolawole Oluseyi Ajanaku, Joseph Adeyemi Adekoya, Samue Oluwakayode Ajayi, Moses Eterigho Emeteri, **Enock Olugbenga Dare** (2019): Combined green synthesis and theoretical study of Ag/Co nanoparticles from biomass materials. *Applied Physics A: Materials Science and Processing*. 125:643. <https://doi.org/10.1007/s00339-019-2931-z>
23. Anuoluwa Abimbola Akinsiku, **Enock Olugbenga Dare**, Olayinka Oyewale Ajani, Joseph Adeyemi Adekoya, Alaba Oladipupo Adeyemi, Oluwaseun Ejilude, Kehinde David Oyeyemi (2018): Dataset on the evaluation of antimicrobial activity and optical properties of green synthesized silver and its allied bimetallic nanoparticles. *Data in Brief* 21 (2018) 989–995.
<https://doi.org/10.1016/j.dib.2018.10.054>. www.elsevier.com/locate/dib
24. Bamgbose, M.K., Adebambo, Adebambo, P.O.; Solola G. T.; Badmus, B.S.; **Dare, E. O.**; Akinlami, J. O. and Adebayo, G. A. (2018): First-principles study of zinc-blende B_xAl_yGa_{1-x-y}N: Alchemical mixing approximation approach *Materials Letters* 221, 330 – 335.
<https://doi.org/10.1142/S0217979216501915>.
25. Ajenifuja E., Alayande S.O., Aromolaran O.A., **Dare, E. O.** Msagati T.A.M (2017): Equilibrium kinetics study of electrospun polystyrene and polystyrene-zeolite fibres for crude oil-water separation. *Journal of Water Process Engineering* 19, 253-259. (Elsevier)

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- Nauclea Latifolia* aqueous leaf extract: Visual colorimetry sensor of aqueous Pb^{2+} and Fe^{3+} and its antimicrobial study. **Proceedings Chemical Society of Nigeria (CSN) 2nd Zonal International Conference, Exhibition and Workshop, South West 2017.** pp 25-28 Akinlabi A.K., Adeogun A.I. and Babajide S.O.,(Eds.) CSNSW-IND006. Held at Moshood Abiola Polytechnic, Abeokuta, Ogun state Nigeria. May 18-20, 2017. Published by CSN,South West Zone.
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112. Adetunji R. Olayide, Oluwadare J. Onwuka O. Ude , **Enock O. Dare**, Kamol O. Alamu (2016): Corrosion Behaviour of Brass coated mild and stainless steel in 1 M NaOH using polarization method 159-164, COLENG Proceedings, March 7-11, 2016.
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119. Lasisi A.A., Folarin, O.M., **Dare, E.O.**, Akinloye, O.A. (2010): Phytochemical, Antibacterial and Cytotoxic Evaluation of *Raphiostylis Benienensis* [Hook F. ex Planch] stem bark extracts. Book of Proceedings of 33rd Annual Conference of Chemical Society of Nigeria at Dusmar Hotel, Kuto, Abeokuta, Ogun State (September 20th – 24th, 2010)(Editor-in-Chief: C.O. Eromosele) Published by Chemical Society of Nigeria. pp 89 – 93.
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122. Olugbojo, J., Adeolu Akanji , A., Samuel Olubodun, O., & Enock Olugbenga , D. (2024). Pathogenic bacteria diversities in *Clarias gariepinus* and their seasonal variation among commercial fish farms in Ota, Ogun State, Nigeria. *Covenant Journal of Physical and Life Sciences*, 12, 4269.
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DOCUMENTED EXHIBITION

124. **Dare E.O.** (2012): “Developed nanoporous water filter technology for point-of-use in Nigerian homes. Exhibited at National University Research and Development Fair (NURESDEF 2012) and won an award for the 2nd position (exhibition and award document attached). (Documented by National University Commission, NUC, Abuja)

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- 125.**Alayande, S.; Akinlabi, A.K., Ayedun, P., Msagati, T. **Dare, E.O.**..: (2018, 2021) Recovery of crude oil from a crude oil adsorbent and simultaneous regeneration of the adsorbent.:
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 - [iii] **CANADAN PATENT TREATY: 3037827**
 - [iv] **EUROPEAN PATENT TREATY**
Publication **EP 3515575 A4 20190731 (EN)** Application **EP 17852519 A 20170922**
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[i] Akinsipo and Dare (2024): United State Patent **US 2024/0408010 A1** (Publication date: Dec 12, 2024)

[ii] World Intellectual Property Organization [WIPO PATENT TREATY]:

International application published under the PATENT COOPERATION TREATY (PCT): World Intellectual Property Organization International Bureau. International Publication Date: 06 April 2023 (06.04.2023). International Publication Number: WO 2023/053077 A1

[iii] Dare et al 2020: NOTAP Patent: RP-NG/P/2020/155

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129. Samson Oluwagbemiga Alayande, Anuluwa Abimbola Akinsiku, Oyesolape Basirat Akinsipo (Oyelaja), Esther Oluwasayo Ogunjinmi, and **Enock Olugbenga Dare** (2021): Green synthesized silver nanoparticles and their therapeutic applications. *Comprehensive Analytical Chemistry*. 2021 Elsevier B.V. <https://doi.org/10.1016/bs.coac.2021.01.009>. P 1-27

09. MAJOR CONFERENCES ATTENDED WITH PAPERS READ

10. **Nano-conference** Keynote Speaker: LAUTECH/NASDR 2022: The Narrative of transformation to circular economy via sustainable nanotechnology. Nov. 22-25, 2023
11. **Bowen Humboldt Kolleg 2023**: Plenary speaker: Circularity paradigm: Roles of sustainable nanotechnology.
12. **78th Inaugural lecturer of my University (FUNAAB) entitled “Nanotechnology as size-powered harbinger of the 21st century technological revolution”. June 21, 2023.**
13. Dare, E.O. (Keynote speaker) 2021: New frontier in fluorescently labeled nanomaterials in security and forensic: Perspectives from fingerprinting to anti-counterfeiting . 4th African Conference/Workshop on Applications of nanotechnology *University of Nigeria Nsukka, July 18 – 23, 2021*
14. Dare E.O. (Conference Keynote speaker) 2021: Progress, challenges, and future of nanomedicine in medical and biomedical research. HYBRID MSN Conference, Abuja. RMRDC, December 23-26.
15. Pan Africa Chemistry Network Congress (PACN) 2019: TOPIC: SUSTAINABLE SUPEROLEOPHILIC/SUPERHYDROPHOBIC SORBENT FOR WATER PURIFICATION IN OIL – CONTAMINATED NIGER DELTA REGION. Nov. 4th – 8th, 2019. Addis ababa, Ethiopia.

16. Dare E. O. (Conference keynote speaker) 2017: Nanotechnology as a sized powered harbinger for a sustainable “soft future” material: Nigeria status, options and challenges. lautech 1st Nano conference. DATE, 21ST – 24TH AUGUST, 2017
17. PACN Congress on Biodiversity and Global Challenges: A Chemical Sciences Approach. 30th Nov – 2nd Dec. 2014, United Nation Conference Center, Addis Ababa, Ethiopia. Organized and sponsored by Royal Society of Chemistry, UK. “Sustainable POU Nanoporous Water filter for water treatment”
18. **E.O. Dare** (*13TH Annual Nigerian Materials Congress (NIMACON 2014) 23RD – 27TH November, 2014*). Development of a Biocompatible – Encapsulated Magnetite Nanocapsule for in-vitro Biomedical Drug Delivery”
19. **E. O. Dare** (invited 13th University leadership Seminar) “**Nanotechnology: A Sized Powered Harbinger of Advanced Materials for a Sustainable “Soft Age”** presented on 26th March 2014 at COLNAS Auditorium
20. **GOING GLOBAL 2013**: British Council organized program for internationalization of universities with the theme “Knowledge base economy for the 21st century” held at Dubai World Trade Centre, Dubai. March 3 – 7, 2013
21. Invited. **2011 World Material Summit** held at L’ENFANT PLAZA HOTEL, Wahington DC, USA. Oct 8 – 13, 2011 **Presented: Development of Nanofilter membrane technology for point of use water purification in Nigerian homes**
22. **E.O. Dare** (Plenary lecturer) **Nanobio and Bionano Technology: A revolution of functional Materials for a Sustainable “Soft Age”** (NIMACON 2012) held at Centre for energy research and Development, Obafemi Awolowo University, Ile – Ife. November 20 – 24, 2012.
23. **E. O. Dare** (invited paper) “**Sol-gel process: an ideal nanostructuring phenomenon**” (Alehander Von Humboldt Scholars conference held at Ladoke Akintola University of Technology, Ogbomoso, July 4 – 7th, 2011
24. **E.O. Dare** (Invited Plenary lecturer) “**Sensor: eye and ear of machines**” delivered at 9th Nigeria Material Congress (NIMACON 2010) held at Universal Hotel Enugun 23rd – 26th November, 2010.
25. E.O. Dare (invited Unit leader lecture) ‘ **Development of Nanoceramic membrane from agricultural wastes composite**’ being a unit leader invited lecture delivered at International Convention Centre, Hilton Hotel, Durban, South Africa (October 2009)
26. E. O. Dare (main speaker) “ **Recent developments in the assembly of nanomaterials using sol-gel process**” lecture delivered at Obafemi Awolowo University, Ife on the 17th June 2008.
27. E. O. Dare (main speaker) “ **Nanoporous silica, nanocrystalline silicon carbide and silicon nitride: Synthesis from Ofada rice husk and possible application in membrane technology, high temperature electronic and nuclear devices**” presented as invited guest lecture at Center for energy and development, Obafemi Awolowo University, Ile – Ife. Sept 2007

28. E. O. Dare (main speaker) “**High surface area nanomaterial: possibilities of developing nanoporous membrane from our local biomaterials**” presented as enlightenment lecture at Sheraton Hotel, Lagos, October 20, 2006.

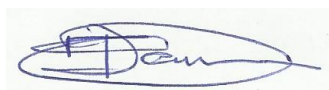
29. E. O. Dare (main speaker) “**Nanoscience and nanotechnology: State-of-the-art process for advanced material**” Presented as invited guest lecture during an annual meeting of material society of Nigeria – Abuja chapter at RMRDC auditorium, October 5, 2006. The same topic was also an invited guest lecture presented at Covenant University, Ota, Ogun state, 2009.

E. O. Dare (main speaker) “**Nanocomposite hybrid material based on sherosilicate and spherosiloxanes: precursors to diverse industrial materials**” Presented as invited guest lecture at the first Nigerian Nanotechnology Initiative held at Transcorp Hilton Hotel, Abuja, June 8, 2006.

11. REFEREES

1. Prof. Rick Register, Department of Chemical Engineering, Princeton University, Princeton. NJ. USA
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2. Prof. G. A. Olatunji, Department of Chemistry, University of Ilorin, Ilorin, Nigeria
E-mail: m_ade49@yahoo.com, Phone: 234 – 8094984205/ 7035273269
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4. Chief (Dr) Chris. O. Ogunbanjo, Church of the Epiphany, Erunwon Ijebu.
5. Dr. Engr. D. A. Oke. Ibadan Polytechnic, Ibadan

Prof. E.O. Dare
Name -----



Signature -----

MY RESEARCH FOCUS AND CONTRIBUTION TO KNOWLEDGE

Since 2005, my research efforts have been directed towards functional nanomaterials based on: [1] Organic-Inorganic nonohybrids [2] Photochemistry [3] Sustainable chemistry [4] Metal, Metal-oxide nanoparticles [5] Water chemistry/Surface chemistry [6] Ceramic [7] Drug delivery [8] Polymerization and [9] Theoretical chemistry. [10] Environmental/crude oil spillage remediation. [11] Triboelectric Nanogenerator (TENG) powering food spoilage sensor. The major precursor for [1] and [2] has been highly nanoscopic Polyhedral Oligomeric Silsesquioxane (POSS) whose structural anatomy is as shown

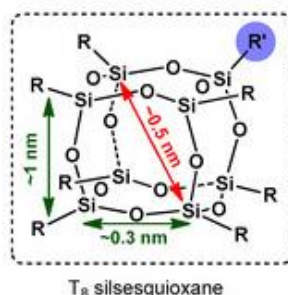


Figure 1: POSS anatomy

My holistic research dynamics leading to various functional materials for device application is as shown in figure 2. I have published in all the highlighted research tentacles.

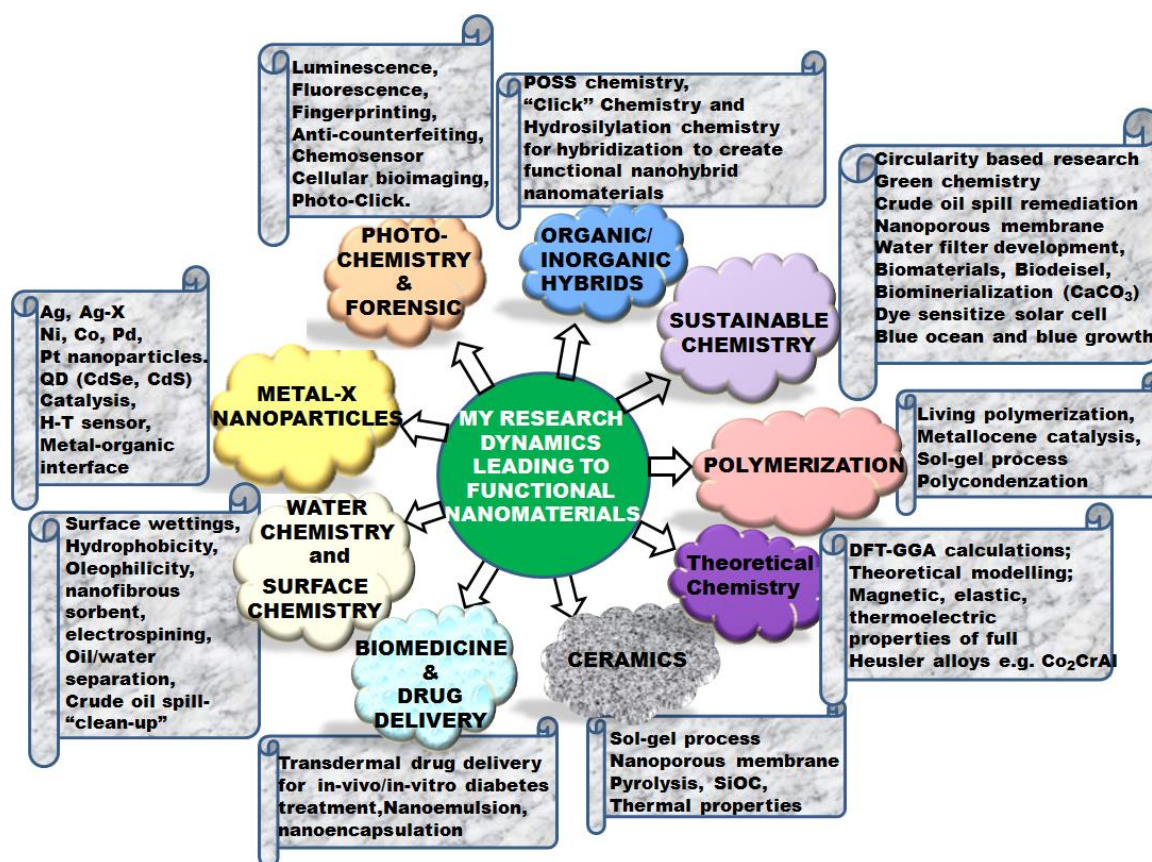


Figure 2: My holistic research activities

My major scientific contribution to knowledge and breakthrough lies on:

(A) Development of novel process for POSS nanocomposite synthesis and application as Hydraulic fluids and Glasses

POSS is a hybrid nanocomposite material possessing nanoscopic size with Si – Si distance of 0.5 nm and an R – R distance of 1.5 nm characterized with various reactive groups at the periphery of the cage.

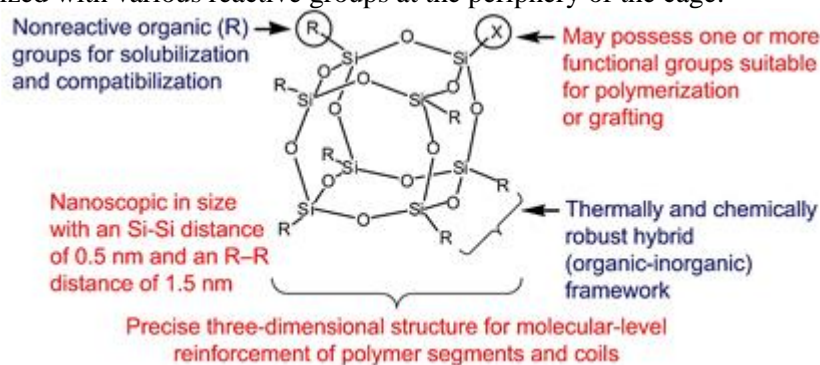


Figure 3: POSS Anatomy

Extensive research on POSS as semiconductors, light emitting diodes and other electronic have been done by many Companies and Universities, including Dow Corning, IBM computer, e.t.c. These materials have been extensively used in semiconductors owing to its tunable periphery functionalities. With electronic getting smaller and smaller, the need for materials that keep these devices from short-circuiting is growing in demands. POSS properties have the ability to prevent short-circuiting by acting as rigid and providing durability for devices --- However, in-spite of the aforementioned importance of these great materials, its synthetic process and conversion rate leaves much to be desired in which Octavinyl-POSS and H-POSS were obtainable in yield of 7% and 21% respectively before 2006. **Breakthrough:** In the years 2006, Prof. Liu, James Peng and I innovatively moved the yields of Octavinyl-POSS and H-POSS to 41% and 72 % respectively by adopting a novel modified synthetic procedure as detailed in a Royal Society of Chemistry, UK Journal (Dalton Transaction). Since then, several efforts have been put to create functional materials (e.g. hydraulic lubricant for off-road machines, silicon oxycarbide special glass) from POSS nanocomposites).

(B) Nanoporous water filter membrane for water purification and its impact on health status of a local community

As you know, a new paradigm for approaching environmental and quality of life is unfolding ---- Nanotechnology. Provision of affordable and clean water services to the “unconnected” in rural areas is a prerequisite to poverty alleviation which determines quality of life. I was privileged to be a major contributor to the national and international clarion call for the development of nanoporous water filter from agricultural wastes (saw dust, rice husk ash) and clay. My previous invited research visit to Princeton University, NJ, USA prompted a return visitation of our collaborators to my laboratory in Nigeria. Within one months of their stay in Abeokuta, a program tagged “Grand Challenges Programme on Ceramic Filter for Portable Water” (<http://sig.ias.edu/files/pdfs/USAMI-RISE-Presentation.pdf>) was organized. A preliminary research in this direction and application of the filter device on a local community in Abeokuta, Ogun state, offered us a value – added – product, which, however, our indigenous research group and I were positively disposed to improve upon. Several improvements have been made leading us to some developmental stages and eventual award [Figure 4].

DEMONSTRATING THE EFFECTIVE NANOPOROUS GRAVITY-DRIVEN WATER FILTER TECHNOLOGY BEFORE NUC ASSESSORS, PRESS AND EVENTUAL CERTIFICATE OF AWARD



DEMONSTRATING THE WATER FILTER TECHNOLOGY BEFORE GOV. WIKE AND STAKEHOLDERS



Figure 4: Nanoporous Water filter developed and demonstrated under NUC representative and the press as government executive (Governor Wike of River state) watches.

It is noteworthy that effort put towards stage C credited my group with an award as the second best in a National University Commission (NUC) - organized research innovation competition (see attachment). The workability of the water filter technology have been demonstrated before government executives, stakeholders, NTA/AIT and press (Figure 4)

(C) **Nanobimetallic and Green nanotechnology** : Using various nanostructuring methods, I have been able to synthesized and evaluate properties of silver nanoparticles. Many of these nanosilvers found inhibition against offensive bacteria, virus and fungi.. However, providing synergy to nanosilver via “green nanotechnology” using various medicinal plant extracts vis-à-vis mopholine, potentially, would be a “hopeful future” toward Ebola containment. This, we have started working on with records of success stories. I have also synthesized various hybrids-silver nanoparticles using wet chemistry and they have found applications in catalysis and sensors.

(D) **Electrospun nanofibrous materials possessing superhydrophobic/superoleophilic wetting surfaces for crude oil or emulsified wastewater separation**

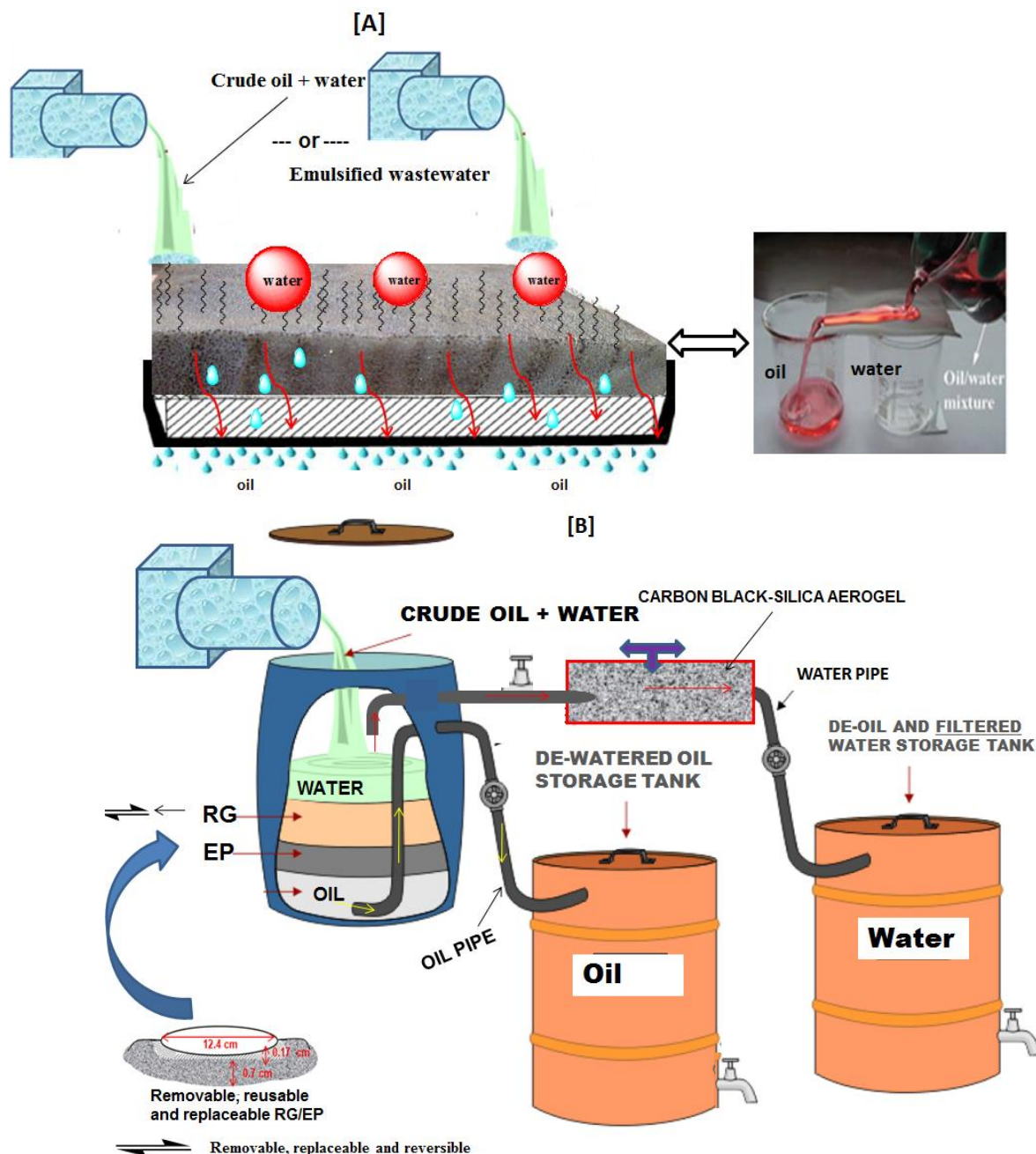


Figure 5: Crude oil separation prototype developed (A) and proposed operational instrumentation (B)[Patent: paper no. 101: WO 2018/055566 A1 US Patent:11,065,602B2]

We have objectively achieved this in this project leading us to electrospun nanoporous sorbent **boom** that is cheap, reusable and sustainably suitable for wider crude oil dewatering/deoiling (**figure 3, US Patent**). Furthermore, we have been able to innovatively create several novel functional POSS, which have proven record of excellent surface properties. The combination of the inorganic group in the hybrid system and the microcrystallinity of the material make it one of the lowest surface energy materials known, imparting hydrophobic and oleophobic properties. Indeed, my research group has also developed modified procedure leading to a number of derivatized POSS possessing hydrophobic/oleophobic properties for crude oil purification. Lately, a switchable dual functional nanofibrous sorbent that reversibly switch as it dewatered – deoil crude oil was proposed [Figure 5].

(E) Petroleum fingerprinting: In order to circumvent incidental danger arising from adulterated petroleum products which has led to severe explosion and environmental disorder, we did use the concept above (electrospun nanoporous sorbent) to develop sustainably re-useable materials capable of correlating and differentiate adulterated petroleum via its geochemical fingerprint (**Papers no. 11, 16**). Dr. Samson Alayande and Prof. Msagati are major contributors.

F: FORENSIC SCIENCE: Human Fingerprinting, Anti-counterfeiting and Geochemical fingerprinting: Public, social and environmental security remain a global phenomenon. The advancement of forensic science has drastically improved public and environmental security. To contribute in this direction, we have adopted fluorescently labeled materials for the detection of fingerprints and anti-counterfeiting bar codes in criminality detection. Our Fluorescent labeled nanohybrid could effectively detect and image fingerprint of human with excellent legibility and photostability (Figure 6) that can stand the test of time.

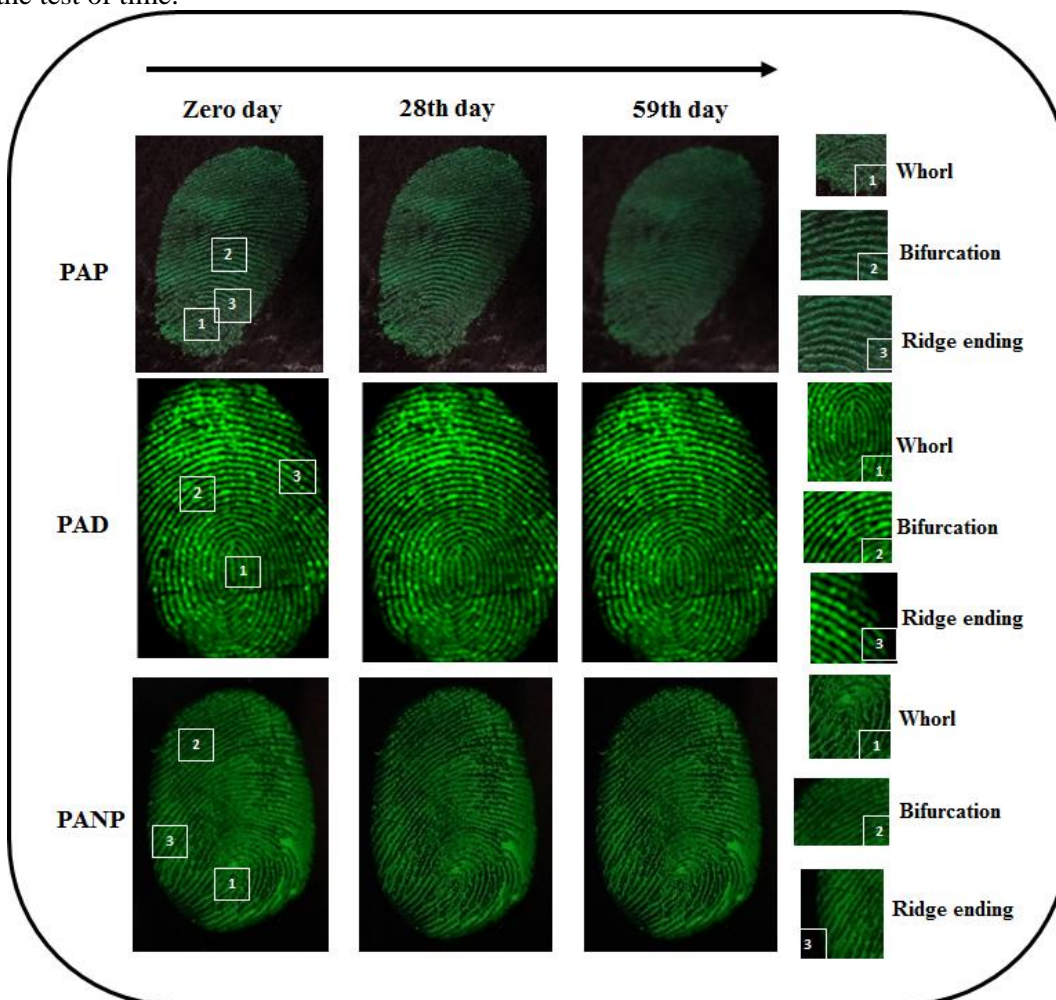


Figure 6 : Fluorescent labeled POSS for fingerprint and imaging in criminality detection

Environmental security requiring detection of adulterated petroleum products has been mentioned in (E) above as part of my contribution to knowledge

G: Transdermal Drug Delivery: I have also looked into Transdermal Nanoemulsion (Figure 7) as an effective controlled insulin delivery system using nanoemulsion as carrier. Nanoemulsion as an efficient vehicle for transdermal drugs delivery system for in-vivo treatment of diabetes type II has been carried out successfully.

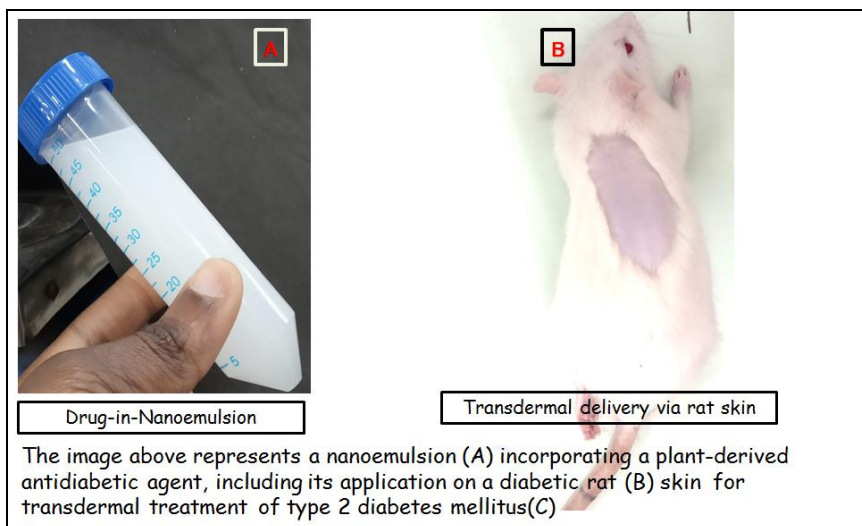


Figure 7: Transdermal drug delivery approach (US 2024/0408010 A1; NOTAP Patent: RP-NG/P/2020/155)

H: Theoretical Chemistry: I am not limited to experimental chemistry (A – G) above. First-principles study of zinc-blende BxAl_yIn_{1-x-y}N quaternary alloy was achieved using Alchemical mixing approximation approach. The results indicate that Zinc-blende alloys are suitable candidates for deep ultra-violet light emitting diodes (LEDs), laser diodes (LDs) and modern solar cell since the concentrations x and y make the bandgap and lattice constant of the quaternary alloys tunable to desirable values. Prof. G.A. Adebayo is one of the major contributor.

CONCLUSIONS: SUMMARY OF OUR SELECTED OUTSTANDING INNOVATIVE AND INVENTIVE CONTRIBUTION TO KNOWLEDGE WITH PATENTS IS AS SCHEMATICALLY OUTLINED (FIGURE 8)

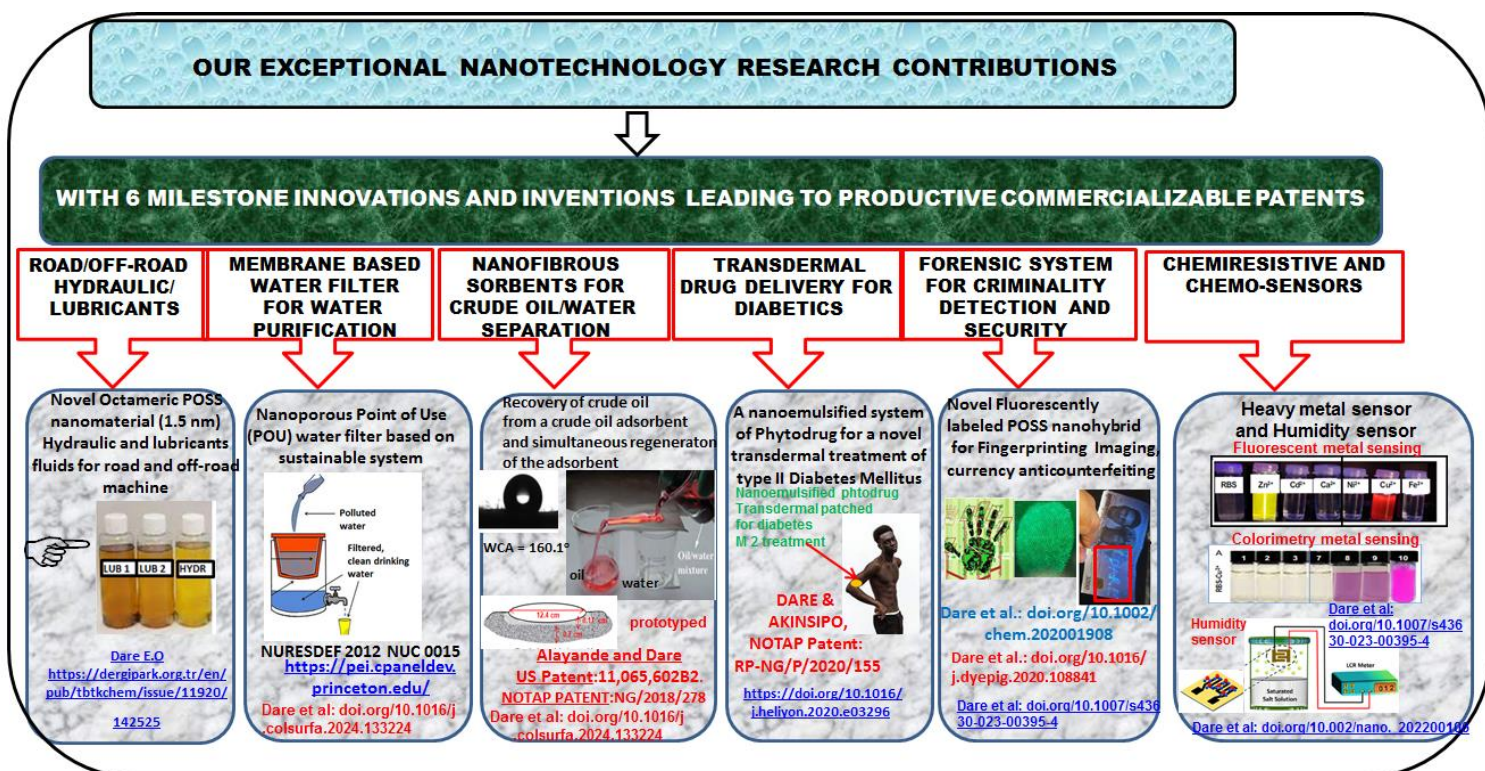
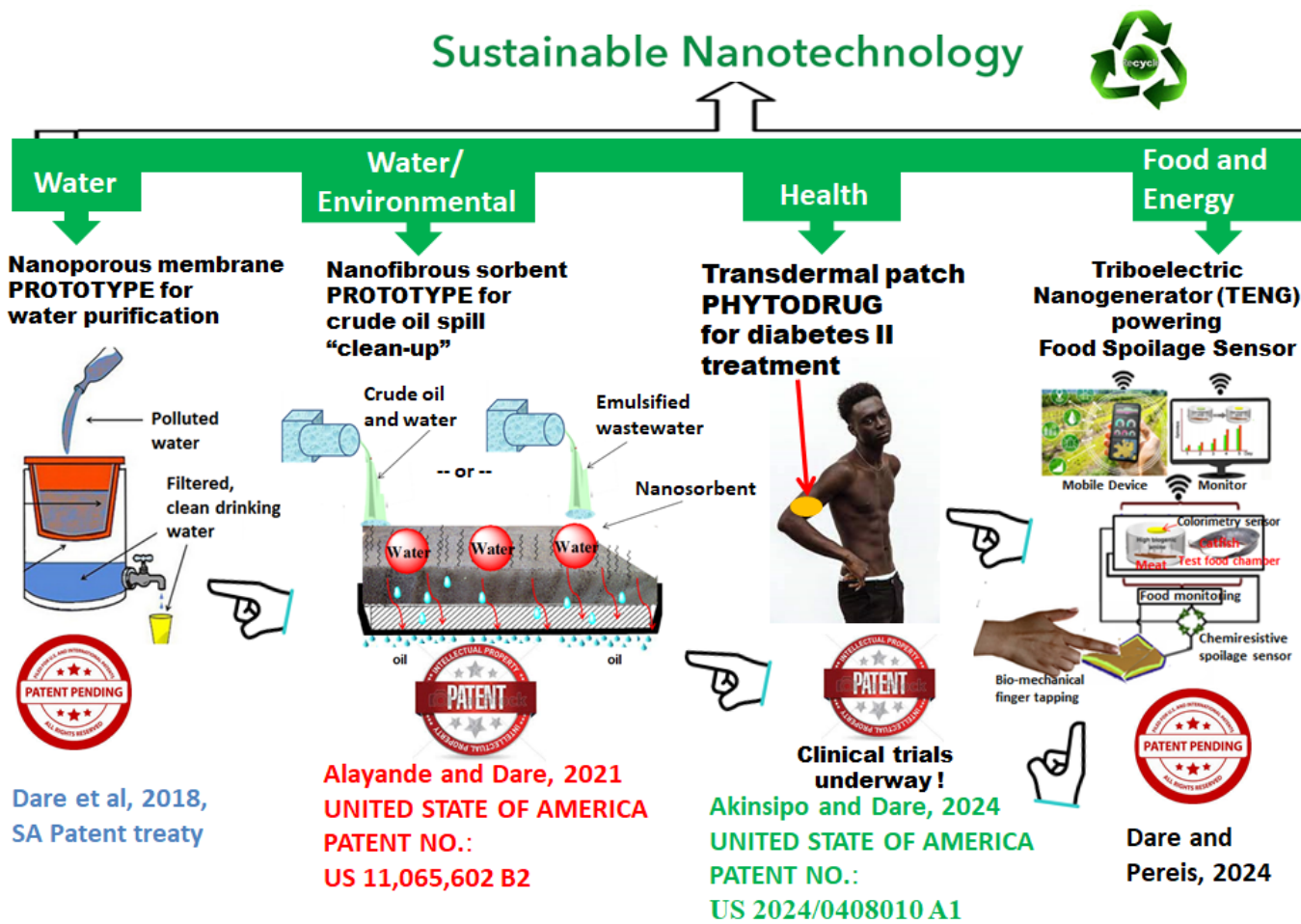


Figure 8: Selected milestone achievement with Patents

SUSTAINABLE CHEMISTRY, CIRCULARITY AND SUSTAINABLE NANOTECHNOLOGY



PATENTS REGISTRATION DOCUMENTS

PATENT 1: SUSTAINABLE CRUDE OIL SEPARATION, PURIFICATION AND SPILLAGE MANAGEMENT

TITLE OF INVENTION: RECOVERY OF CRUDE OIL FROM A CRUDE OIL ADSORBENT AND SIMULTANEOUS REGENERATION OF THE ADSORBENT

PATENT TYPE: UNITED STATES PATENT TREATY

DATE OF PARENT: JULY 20, 2021

PATENT NO: US 11,065,602 B2

PRINCIPAL INVENTOR: PROF. DARE, ENOCK OLUGBENGA AND DR. SAMSON ALAYANDE



US011065602B2

(12) **United States Patent**
Alayande et al.

(10) **Patent No.:** **US 11,065,602 B2**
(45) **Date of Patent:** **Jul. 20, 2021**

(54) **RECOVERY OF CRUDE OIL FROM A CRUDE OIL ADSORBENT AND SIMULTANEOUS REGENERATION OF THE ADSORBENT**

(52) **U.S. CL.**
CPC **B01J 20/3475** (2013.01); **B01D 17/02** (2013.01); **B01D 17/0202** (2013.01);
(Continued)

(71) Applicant: **University of South Africa, Pretoria (ZA)**

(58) **Field of Classification Search**
None
See application file for complete search history.

(72) Inventors: **Samson Oluwagbemiga Alayande, Ibadan (NG); Enock Olugbenga Dare, Abeokuta (NG); Akinola Kehinde Akinlabi, Abeokuta (NG); Peter Olaitan Aiyedun, Ibadan (NG); Titus A. M. Msagati, Roodepoort (ZA)**

(56) **References Cited**
U.S. PATENT DOCUMENTS
3,756,948 A 9/1973 Weinberg
5,244,580 A * 9/1993 Li B01D 17/04

PATENT 2: NANOEMULSION TRANSDERMAL DRUG DELIVERY FOR DIABETICS

TITLE OF INVENTION: A NANOEMULSIFIED SYSTEM OF PHYTODRUG FOR A NOVEL TRANSDERMAL TREATMENT OF TYPE II DIABETES MELLITUS

[A]

PATENT TYPE: United State Patent

DATE OF PARENT: December 12, 2024

PATENT NO: US 2024/0408010 A1

PRINCIPAL INVENTOR: PROF. DARE, ENOCK OLUGBENGA AND DR.MRS BASIRAT



US 20240408010A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2024/0408010 A1**
Akinsipo et al. (43) **Pub. Date: Dec. 12, 2024**

(54) **A NANO EMULSIFIED PHYTO-DRUG FOR
TRANSDERMAL TREATMENT OF
DIABETES**

Publication Classification

(51) **Int. Cl.**
A61K 9/107 (2006.01)

[B]

PATENT TYPE: NIGERIA NOTAP

DATE OF PARENT: SEPTEMBER 7, 2020

PATENT NO: NG/P/2020/155

PRINCIPAL INVENTOR: PROF. DARE, ENOCK OLUGBENGA AND DR.MRS BASIRAT
AKINSIPO



Form Designs No. 24

CERT. No. 004844

FEDERAL REPUBLIC OF NIGERIA
Certificate Of Registration Of Patent
(Patents and Designs Act; CAP 344 Laws of the Federation Of Nigeria 1990)

RP: NG/P/2020/155
Date of Patent: 07/09/2020
Date of Sealing: 05/10/2020

President of the Federal Republic of Nigeria and Commander-in-chief of the Armed Forces
MUHAMMADU BUIHARI, GCFR.

Whereas a request for the grant of a patent has been made by: ENOCK OLUGBENGA DARE; OYESOLAPE BASIRAT OYELAJA-AKINSIPO; FATAI OLADOYINBO; LATEEF SANI AND SAMSON OLUWAGBENGA ALAYANDE OF FEDERAL UNIVERSITY OF AGRICULTURE, OGUN STATE, OGUN STATE, NIGERIA; TAI SOLARIN UNIVERSITY OF EDUCATION, OGUN STATE, OGUN STATE NIGERIA; FEDERAL UNIVERSITY OF AGRICULTURE, OGUN STATE, OGUN STATE, NIGERIA; FEDERAL UNIVERSITY OF AGRICULTURE, OGUN STATE, OGUN STATE, NIGERIA; AND FIRST TECHNICAL UNIVERSITY, OYO STATE, OYO STATE NIGERIA C/O INTELLECTUAL PROPERTY AND TECHNOLOGY TRANSFER OFFICE, FIRST TECHNICAL UNIVERSITY, IBADAN
KLM 15, IBADAN –LAGOS EXPRESS ROAD, IBADAN , OYO STATE, OYO State

For the sole use and advantage of an invention for: A NANOEMULSIFIED SYSTEM OF PHYTODRUG FOR A NOVEL TRANSDERMAL TREATMENT OF TYPE II DIABETES MELLITUS AND WHEREAS the Federal Government being willing to encourage all invention which may be for public good, is pleased to accede to the request:

KNOW YE THEREFORE, that I do by this Instrument give and grant unto the person(s) above named and any successor(s), executor(s), administrator(s) and assign(s) (each and any of whom are hereinafter referred to as the patentee) by special licence, full power, sole privilege and authority, that the patentee or any agent or licensee of the patentee may subject to the conditions and provisions prescribed by any statute or order for the time being in force at all times hereafter during the term of years herein mentioned, make, use, exercise and vend the said invention throughout the Federal Republic of Nigeria, and that the patentee shall have and enjoy the whole profit and advantage from time to time accruing by reason of the said invention during the term of twenty years from the date first above written on this Instrument: AND to the end that the patentee may have and enjoy the sole use and exercise of the full benefit of the said invention, I do by this Instrument strictly command all citizens of the Federal Republic of Nigeria that they do not at any time during the continuance of the said term either directly or indirectly make use of or put in practice the said invention, nor in anywise imitate the same, without the written consent, licence or agreement of the patentee, on pain of incurring such penalties as may be justly inflicted on such offenders, and of being answerable to the patentee according to law for damages thereby occasioned:

PROVIDED ALWAYS that this patent shall be revocable on any of the grounds from time to time by law prescribed as grounds for revoking patents granted by me, and the same may be revoked and made void accordingly:

PROVIDED ALSO that nothing herein contained shall prevent the granting of licences in such manner and for such considerations as they may by law be granted

MADE this: 5TH Day of OCTOBER, 2020

STELLA OZO EZENDUKA
Registrar

PATENT 3: CRUDE OIL SEPARATION, PURIFICATION AND SPILLAGE MANAGEMENT

TITLE OF INVENTION: REMEDIATION OF CRUDE OIL SPILLAGE FROM WATER USING SUPERHYDROPHOBIC ELECTROSPUN FIBRE.

PATENT TYPE: NIGERIA NOTAP

DATE OF PARENT: AUGUST 31, 2018

PATENT NO: NG/2018/278

PRINCIPAL INVENTOR: PROF. DARE, ENOCK OLUGBENGA AND DR. SAMSON ALAYANDE

CERTIFIED DOCUMENTS



FEDERAL UNIVERSITY OF AGRICULTURE ABEOKUTA, NIGERIA

OFFICE OF THE REGISTRAR
Registrar: Mr. M. O. Ayoola, JP.
P.M.B 2240, Abeokuta, Ogun State, Nigeria
email: registrar@funaab.edu.ng
ayoolamo@funaab.edu.ng
Website: www.funaab.edu.ng
Tel: 234-803-391-8405

FUNAAB/R/SP.703/I/146

June 5, 2014

Dr. E. O. Dare,
Department Chemistry
Federal University of Agriculture,
Abeokuta.

Dear Dr. Dare,

LETTER OF COMMENDATION

The Governing Council at its 77th Statutory Meeting held on Thursday and Friday, March 6 & 7, 2014 noted your hard-work, high sense of dedication and commitment to duty which has led to your breaking new grounds in Chemistry. Council therefore decided that you should be commended.

On behalf of the Governing Council, I hereby commend you for this feat.

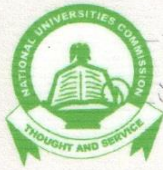
It is hoped that you will continue in that regard so that we can jointly build the University of our dream.

Thank you.

M. O. Ayoola, JP
Registrar

Our Vision:
To be a Centre of Excellence in Knowledge
generation for global development and the
sustenance of an environmentally friendly society

Our Mission
To build future leaders and generate knowledge through
research and intellectually stimulating environment for teaching,
learning and community outreach towards sustainable development



**5th
NIGERIAN UNIVERSITIES
RESEARCH**



**&
DEVELOPMENT
FAIR
(NURESDEF)**
8th - 12th October, 2012

Certificate of Award

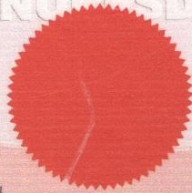
Second

*Individual Award in Science & Technology
(Development)*

Presented to

Dare E.O. et al.

Prof. Julius A. Okojie, OON
Executive Secretary,
National Universities Commission, Abuja



Prof. Muhammed S. Audu, FMAN
Vice-Chancellor,
Federal University of Technology, Minna



FEDERAL UNIVERSITY LAFIA

P.M.B 146 LAFIA

OFFICE OF THE REGISTRAR

Professor Ekanem Ikpi Braide,
Bsc (Ife) Msc (Cornell) Phd (Cornell) FAS OFR
VICE CHANCELLOR

Dr Idris Othman Jibrin,
Bsc (ABU) Msc (Abuja) Phd (Abuja)
REGISTRAR

FUL/REG/APPT/VOL.1/012

15th August, 2012

Dr. Dare Enock O.
Chemistry Department
Federal University
Lafia

Appointment as Acting Director of Academic Planning Unit

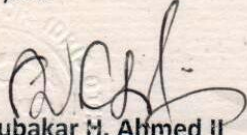
I am pleased to inform you that the Vice-Chancellor has approved your appointment as the Acting Director of Academic Planning Unit.

The appointment is with immediate effect and is for a term of two years in the first instance.

By this letter, the Bursar is required to pay you the appropriate responsibility allowance.

Please accept our Congratulations.

Thank you.


Dr. Abubakar M. Ahmed II
Deputy Registrar (Academic)
For: Registrar



FEDERAL UNIVERSITY OF AGRICULTURE ABEOKUTA, NIGERIA

OFFICE OF THE REGISTRAR
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ayoolamo@funaab.edu.ng
Website: www.unaab.edu.ng
Tel: 234-803-391-8405

FUNAAB/R/ESTAB.50A/2016/45

December 20, 2016

Professor E. O. Dare,
Department of Chemistry,
College of Physical Sciences,
Federal University of Agriculture,
Abeokuta.

Dear Professor Dare,

SENIOR STAFF PROMOTION

I have the pleasure to inform you that the Governing Council at its 90th Statutory Meeting held on Thursday and Friday, November 17 and 18, 2016, approved your promotion to the position of **Professor in Materials Chemistry and Nanotechnology** with effect from **October 1, 2015** on a salary of **CONUASS 07 Step 01: ₦4,595,148.96** per annum in the Consolidated University Academic Salary Structure (CONUASS 07: ₦4,595,148.96 - ₦6,034,962.96).

On behalf of the Governing Council, I congratulate you very heartily on this well-deserved elevation and hope you will continue to serve the University to the best of your ability.

Yours sincerely,

Obafemi Oginni
Acting Registrar

Our Vision:

To be a Centre of Excellence in Knowledge generation for global development and the

Our Mission:

To build future leaders and generate knowledge through research and intellectually stimulating environment for teaching, learning and community outreach towards sustainable development