

University of Ghana
College of Basic and Applied Sciences Research Board

PERSONAL INFORMATION

Name: **Kwabena Kan-Dapaah**
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ACADEMIC BACKGROUND

- **Ph.D. Materials Science and Engineering**, African University of Sci. & Tech., *Abuja Nigeria, 2015*
- **M.Sc. Biomedical Engineering**, University of Lübeck/FH Lübeck, *Lübeck Germany, 2008*
- **B.Sc. Computer Engineering**, Kwame Nkrumah University of Sci. & Tech. *Kumasi Ghana, 2005*

RESEARCH INTEREST

- Nanomedicine
- Biomechanics
- Physiological Modeling
- Nanocomposites

AREA OF SPECIALIZATION

- Thermotherapy
- Clinical Gait Analysis and Locomotion
- Cancer Treatment Methods
- Mechanical Testing
- Computational Modeling

ON-GOING RESEARCH PROJECTS:

- Magnetic Nanocomposite Thermosteeds for Interstitial Treatment of Cancer Hepatic Tissue: *Materials Characterization and Ex-vivo Heating Experiments*

- Magnetic Nanocomposite for Biomedical Devices: *Mechanical Properties as a function of Effect Curing Temperature and Nanoparticle concentration*
- Interstitial Hyperthermia of Breast Cancer Cells Through the Use of Plasmonic Nanocomposite Thermosteeds

OTHER RESEARCH RELATED ACTIVITIES

- **2017/18: VISITING SCHOLAR**, Worcester Polytechnic Institute, Worcester MA, USA
- **Grant(S):**
 - **2018:** Future African Early Career Research Leadership Fellowship, University of Pretoria, South Africa
 - **2017/18:** Building a New Generation of Academics in Africa, University of Ghana, Seed Grant
- **Conference(S)**
 - The Minerals, Metals & Materials Society (TMS): **148th** Annual Meeting and Exhibition, Arizona, **March 10-14, 2019**
 - The Minerals, Metals & Materials Society (TMS): **147th** Annual Meeting and Exhibition, Arizona, **March 11-15, 2018**
- **Workshop**
 - **Instructor: AMRS Computational Modeling Workshop, 2018**
- **Publications:**
 - **2019**
Y. Konku, J. Kutor, A.Yaya and **K. Kan-Dapaah**, J. Nanotechnol., 2018. *In press*
 - **2018**
R. B. Asamoah, E. Nyankson, E. Annan, B. Agyei-Tuffour, J. K. Efavi, **K. Kan-Dapaahya**, *et al.*, Oriental J. Chem., 34.
K. Kan-Dapaah, J. Obayemi, A. Salifu, C. Ani, N. Rahbar, Sci. Reports, *Under Review*
 - **2017**
K. Kan-Dapaah, B. O. Asimeng, S. K. Kwofie, A. Yaya, Congent Engineering, 4.
 - **K. Kan-Dapaah**, N. Rahbar, W. Soboyejo, PLOS ONE, 12.