

ASFAP Biophysics WG info

Conveners



Dr Emmanuel Nji
(Biostruct Africa)



Prof. Elsie Effah Kaufmann
(U. Ghana)



Prof. Tjaart Krüger
(U. Pretoria)

Observer

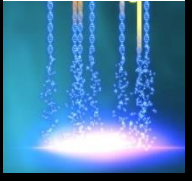
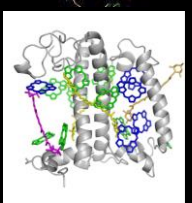
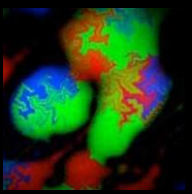


Dr Lawrence Norris

Speaker: Tjaart Krüger

ASFAP Biophysics WG info

- 3 co-conveners (only 1 active)
- 5 WG meetings
- 1 Conference (Biophysics in Africa Conference, 22-26 March 2021)
- LOIs
 - 3 on Quantum Biology (overlap: Atomic & Molecular Physics, Computing, Energy, Optics & Photonics)
 - 1 on Structural Biology (overlap: Light Sources, Medical Physics)
 - 1 on Mechanobiology (overlap: Materials Physics, Medical Physics)
 - 1 from WHO on EMF (overlap: Medical Physics, Optics & Photonics, Fluids)
 - 1 supporting LOI, emphasizing the importance of biophotonics, synthetic biology, micro-fluidics, structural biology and quantum biology (overlap: all of the above)
- Based on our African biophysics research database, we expect more LOIs in the coming months

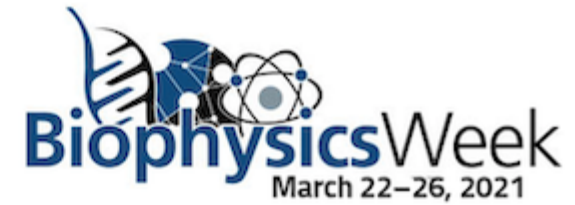




Biophysics in Africa

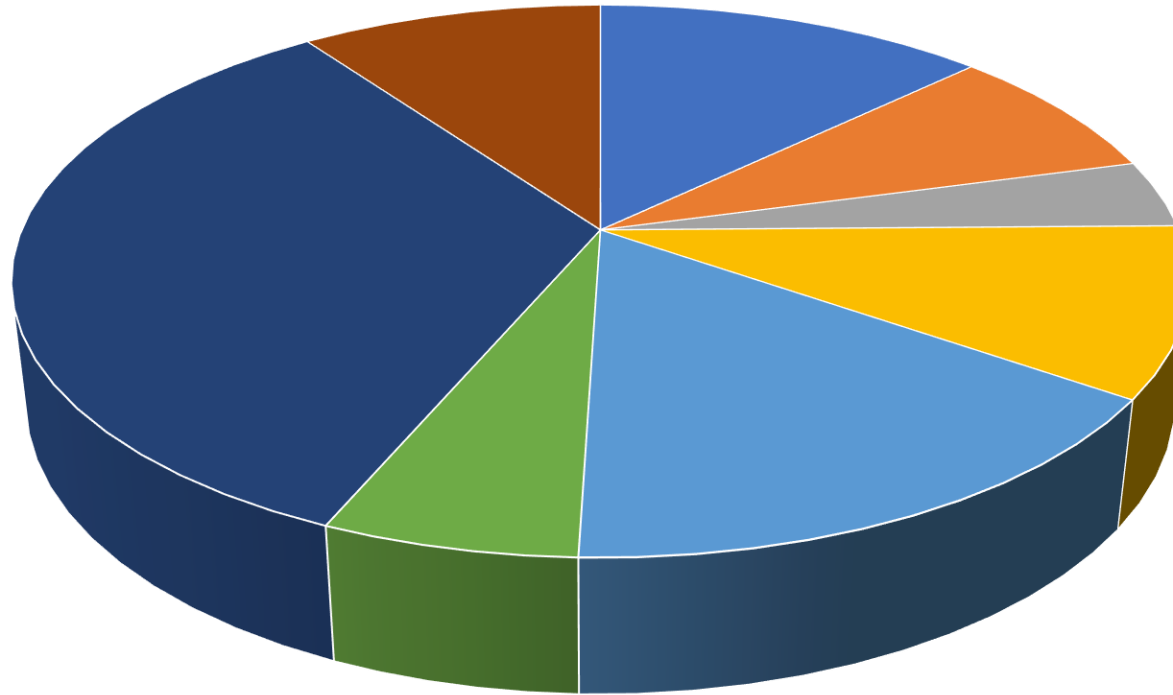
ZOOM Conference

22-26 March 2021



Conference topics

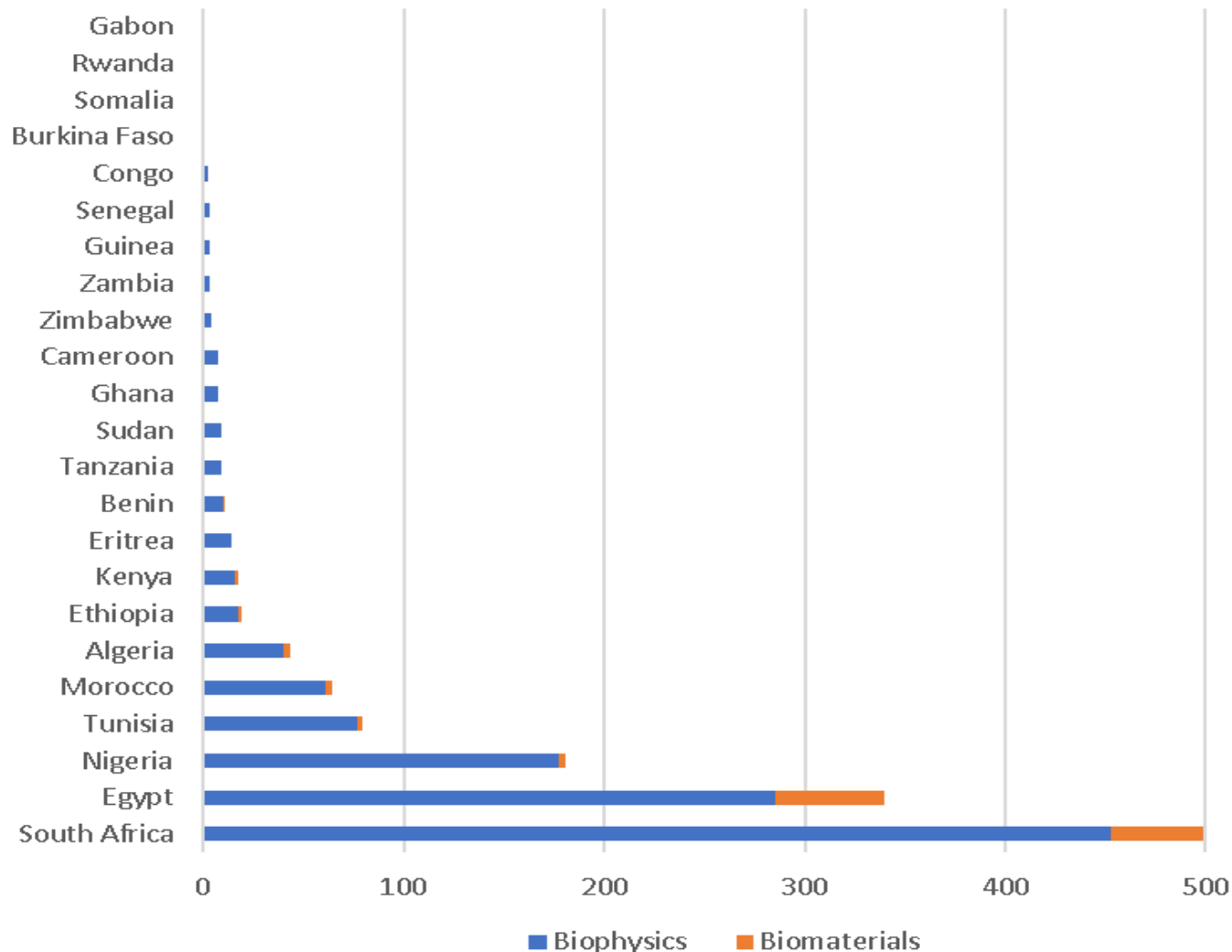
- Biophotonics
- Biophysics and maternal health
- Cellular biophysics
- Computational biology
- Molecular biophysics
- Quantum biology
- Structural biology
- X-ray scattering, spectroscopy and radiation in biophysics (incl radiology)



Scope of Biophysics Research in Africa

Pilot scientometric study

Representative WoS Biophysics Publications from Africa



Future plans

1. Biophysics Winter School (4 July 2022); Structural Biology Workshop (25-28 April 2022)
2. Annual Biophysics in Africa Conferences
3. Extending our biophysics research database
4. Assessing the scope of biophysics education in Africa
5. Scientometric article on 3 & 4
6. Liaison with other WGs
7. Liaison with large international organisations (e.g. BPS & IUPAB)
8. Biophysics careers: Information document / infographic
9. Possible virtual department
10. Establishment of CoEs in targeted areas
11. Development of biophysics curricula

