# AfricArxiv

# A free preprint service for African scientists
## Powered by OSF Preprints

**Justin Sègbédji Ahinon**, University of Parakou, Benin & **Jo Havemann**, Institute for Globally Distributed Open Research and Education (IGDORE) | Contact: info@africarxiv.org | **www.africarxiv.org**

Preprint manuscripts hosted on the AfricArxiv repository allow for free and quick dissemination and global discussion of research output before publishing in a peer reviewed journal.

## What is a preprint?

- A complete manuscript shared with a public audience without peer review.
- The version of a research article to be submitted for peer review and publication in a traditional scholarly journal.
- Preprints uploaded to OSF Preprints or another community preprint server accelerate scholarly communication and public access.

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>> https://cos.io/blog/preprints-what-why-how/

## AfricArxiv repository

**Free and quick** dissemination and **global discussion** of research output before publishing in a peer reviewed journal.

All published articles will be
- granted a CC BY 4.0 license
- a DOI ([digital object identifier](doi.org) << doi.org)
- indexed in Google Scholar

When re-using and citing published manuscripts the **preprint status** should be clearly marked.

**Preprints are not formally peer-reviewed.**

## Submissions in African languages

- About 2000 local languages are spoken in Africa.
- Senegal, Nigeria and Kenya are investing in the promotion and enhancement of vernacular languages.
- Such potential for information dissemination remains untapped by the scientific research community in Africa for the time being.
- More people might be more inclined to share knowledge if they had the opportunity to do so in their mother tongues.

## Why a preprint repository for Africa?

- More visibility for African research output
- Increased collaboration across the continent
- Enable cross-continental collaboration
- Make local research visible globally
- Trigger interdisciplinary research
- Share your research in your local language

## Accepting the following types of manuscripts

- Research articles
- Review papers
- Project proposals
- Case studies
- 'negative' results and 'null' results
- Data and methods papers
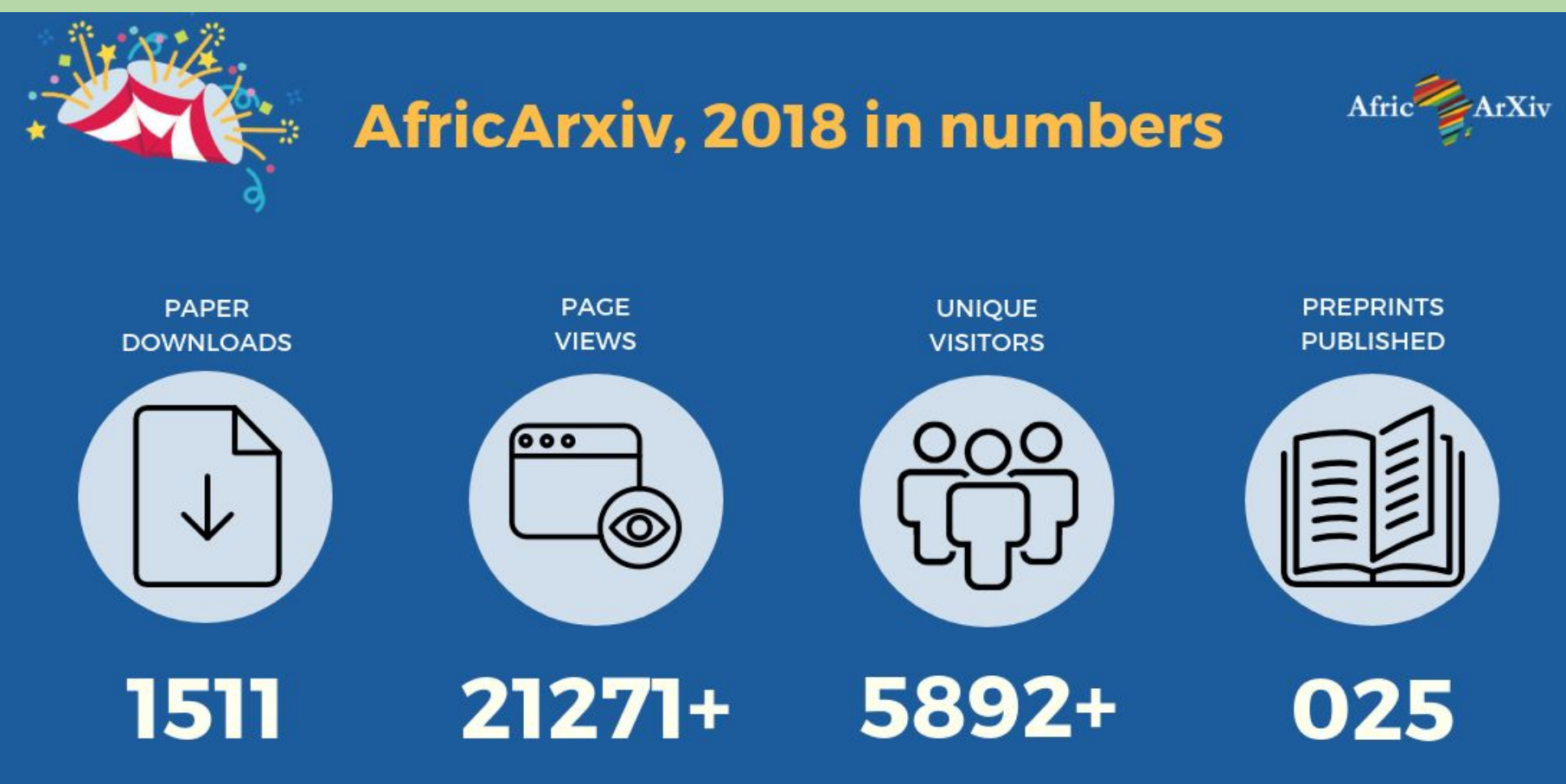- Technical notes
- Dataset description papers

> Translations of the above

## Encouraging submissions from

- **African scientists** based on the African continent
- **African scientists** who are currently based outside Africa
- **non-African scientists** who report on research conducted on African territory; preferably with African co-authors listed
- **non-African scientists** who report on research relevant to African affairs

## Selection of accepted manuscripts

**Null hypersurfaces in indefinite nearly Kaehlerian Finsler spaces**
Samuel Ssekajja
Last edited: Feb 12, 2019 UTC
Physical Sciences and Mathematics | Mathematics | Geometry and Topology
We study the geometry of null hypersurfaces, $M$, in indefinite nearly Kaehlerian Finsler space forms $\bar{F}^{2n}$. We prove new inequalities involving the point-wise vertical sectional curvatures of $\bar{F}^{2n}$, based on two special vector fields on an umbilic hypersurface. Such inequali ...
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**Geometry of isoparametric null hypersurfaces of Lorentzian manifolds**
Samuel Ssekajja
Last edited: Jan 31, 2019 UTC
Physical Sciences and Mathematics | Mathematics | Geometry and Topology
We define two types of null hypersurfaces as; isoparametric and quasi isoparametric null hypersurfaces of Lorentzian space forms, based on the two shape operators associated with a null hypersurface. We prove that; on any screen conformal isoparametric null hypersurface, the screen geodesics lie on ...
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**Some results on null hypersurfaces in $(LCS)$-manifolds**
Samuel Ssekajja
Last edited: Jan 31, 2019 UTC
Physical Sciences and Mathematics | Mathematics | Geometry and Topology
We prove that a Lorentzian concircular structure $(LCS)$-manifold does not admit any null hypersurface which is tangential or transversal to its characteristic vector field. Due to the above, we focus on its ascreen null hypersurfaces, and show that such hypersurfaces admit a symmetric Ricci tensor ...
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**Hybridization in human evolution: insights from other organisms**
Rebecca Rogers Ackermann, Michael Arnold, Marcella Baiz, James A Cahill, Liliana Cortés-Ortiz, Ben J Evans, B Rosemary Grant, Peter R Grant, Benedikt Hallgrimsson, Robyn Humphreys +11
Last edited: Jan 30, 2019 UTC
Life Sciences | Biology | Social and Behavioral Sciences | Anthropology | Biological and Physical Anthropology
During the late Pleistocene, isolated lineages of hominins exchanged genes thus influencing genomic variation in humans in both the past and present. However, the dynamics of this genetic exchange and associated phenotypic consequences through time remain poorly understood. Gene exchange across dive ...
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**Introducing: Second-order permutation**
Bassey Godwin
Last edited: Jan 29, 2019 UTC
Physical Sciences and Mathematics | Mathematics | Discrete Mathematics and Combinatorics
In this study we answer questions that have to do with finding out the total number of ways of arranging a finite set of symbols or objects directly under a single line constraint set of finite symbols such that common symbols between the two sets do not repeat on the vertical positions. We go furth ...
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osf.io/preprints/africarxiv/discover

## AfricArxiv, 2018 in numbers

| PAPER DOWNLOADS | PAGE VIEWS | UNIQUE VISITORS | PREPRINTS PUBLISHED |
|---|---|---|---|
| 1511 | 21271+ | 5892+ | 025 |

**References:**

Ahinon, Justin, & Havemann, Jo. (Nov 2018). **Open Science in Africa - Challenges, Opportunities and Perspectives**. http://doi.org/10.5281/zenodo.1492745

AfroTribune team (Jun 2018). **AfricArxiv: la plateforme qui veut partager la science en langues africaines**, AfroTribune

AuthorAID Team (Aug 2018): **Introducing AfricArxiv - a preprint repository for African researchers**, AuthorAID

Asiedu KG (Jun 2018). **A research platform for African scientists will take papers in local languages**, QUARTZ Africa, Commentary

Courrier International team (Jun 2018). **La plateforme des chercheurs africains pour donner plus de visibilité à leurs travaux**, Courrier International

Mallapaty S (Jun 2018). **African scientists launch their own preprint**, Nature Index, News

Tennant J *et al.* (2018, May 17). **The evolving preprint landscape: Introductory report for the Knowledge Exchange working group on preprints.** https://doi.org/10.31222/osf.io/796tu

van der Merwe, C (Jun 2018). **Africa's preprint platform: a gateway for mother tongue science**, Research Africa

AfricArxiv is one of currently 21 discipline- and region-specific preprint repositories hosted at the Open Science Framework by the Center for Open Science.

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