

Paper Submission Form - SAIP2025 Proceedings

Sections A, C, D, and E must be completed by all authors (including students) who submit papers. Section B is compulsory for students who submit manuscript(s).

Section A: Paper Submission Information

Paper/Abstract ID	215
Paper title	Structural and optical properties of rare-earth doped magnesium ferrite
Corresponding Author Name & Surname:	Ncembu Onke Ngubelanga
Corresponding Author Email Address:	onkencembu@gmail.com

Section B: For Students & Supervisors

Supervisor Name & Surname:	Prince S. Mkwae
Supervisor Email Address:	mkwaep@unizulu.ac.za

For this paper, the supervisor must agree/disagree with the following statements.

	Yes	No
1. I am aware that the above-mentioned paper is being submitted for possible publication in the Proceedings of the SAIP Conference. I am satisfied that the presented work is that of the listed authors. I hereby give consent to the submission	✓	
2. I have proof-read the manuscript	✓	
3. I am satisfied that the manuscript is written in appropriate English and is sufficiently free of grammatical and spelling errors	✓	
4. I am familiar with the required manuscript format ("House Style"), and I am satisfied that this manuscript meets the criteria. I am aware that manuscripts not conforming with House Style may be desk rejected	✓	
5. I am satisfied that the scientific content of this manuscript is of sufficient standard for it to be considered for publication in the Proceedings of the South African Institute of Physics Conference Proceedings	✓	

Student Name & Surname: Ncembu Ngubelanga

Signature: 

Date: 31/07/2025

Supervisor Name & Surname: Prince Mkwae

Signature: 

Date: 31/07/2025

Section C: Suggested Reviewers

Obtaining the two referee reports necessary for DHET subsidy is an onerous task.

Please provide the names and contact details of three qualified South African and/or international referees. Referees should have a PhD and expertise in the relevant area of Physics. Do not recommend referees who have co-authored a work with any of the authors on the manuscript within the past five (5) years. Manuscripts without three recommended referees may be subject to desk rejection.

Suggested Reviewers in your Research Field (Both local & international)

	Reviewer Names & Surname	Reviewer's Email Address(es)
Suggested reviewer #1	Olatanbosun Nubi	olatanbosun.nubi@ul.ac.za
Suggested reviewer #2	Wendy Mdlalose	mdlalosew@ukzn.ac.za
Suggested reviewer #3	Petrus Ntoahae	petrus.Ntoahae@ul.ac.za

Section D: Declaration of Novelty and Use of AI

How is this submitted manuscript scientifically novel?

This manuscript is scientifically novel in a way that it investigates the effects of doping MgFe₂O₄ with La and Sm, via hydrothermal synthesis route and annealed at varying temperatures. While other studies have examined MgFe₂O₄ or doped variants of the material, the combined use of the synthesis method and specific dopant concentration of 0.2M provides new insight into tuning structural and optical properties in a cheaper, easier and sustainable way. The work demonstrate significant reduction in crystallite size , reduced bandgap

Please see the Author Guidelines for the AI use policy.

How was AI used in the generation of this manuscript?

ChatGPT AI tool was used to paraphrase, to improve language and grammar, clarity and flow of the manuscript. No AI tools were used to generate original research ideas, results and data interpretations.

Section E: Plagiarism

	Yes
I am aware that plagiarism detection software may be used on my manuscript.	<input checked="" type="checkbox"/>