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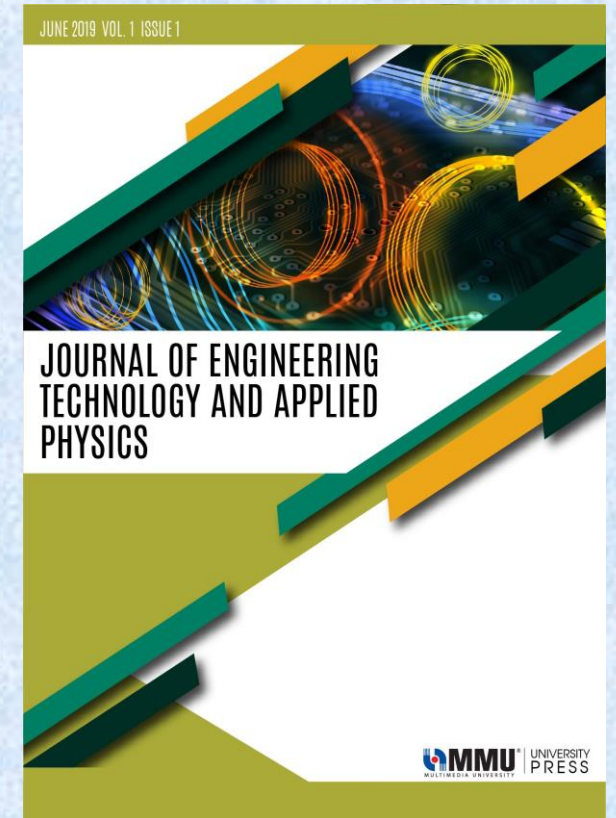
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JETAP Publication

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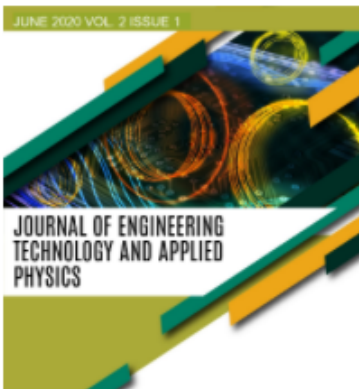
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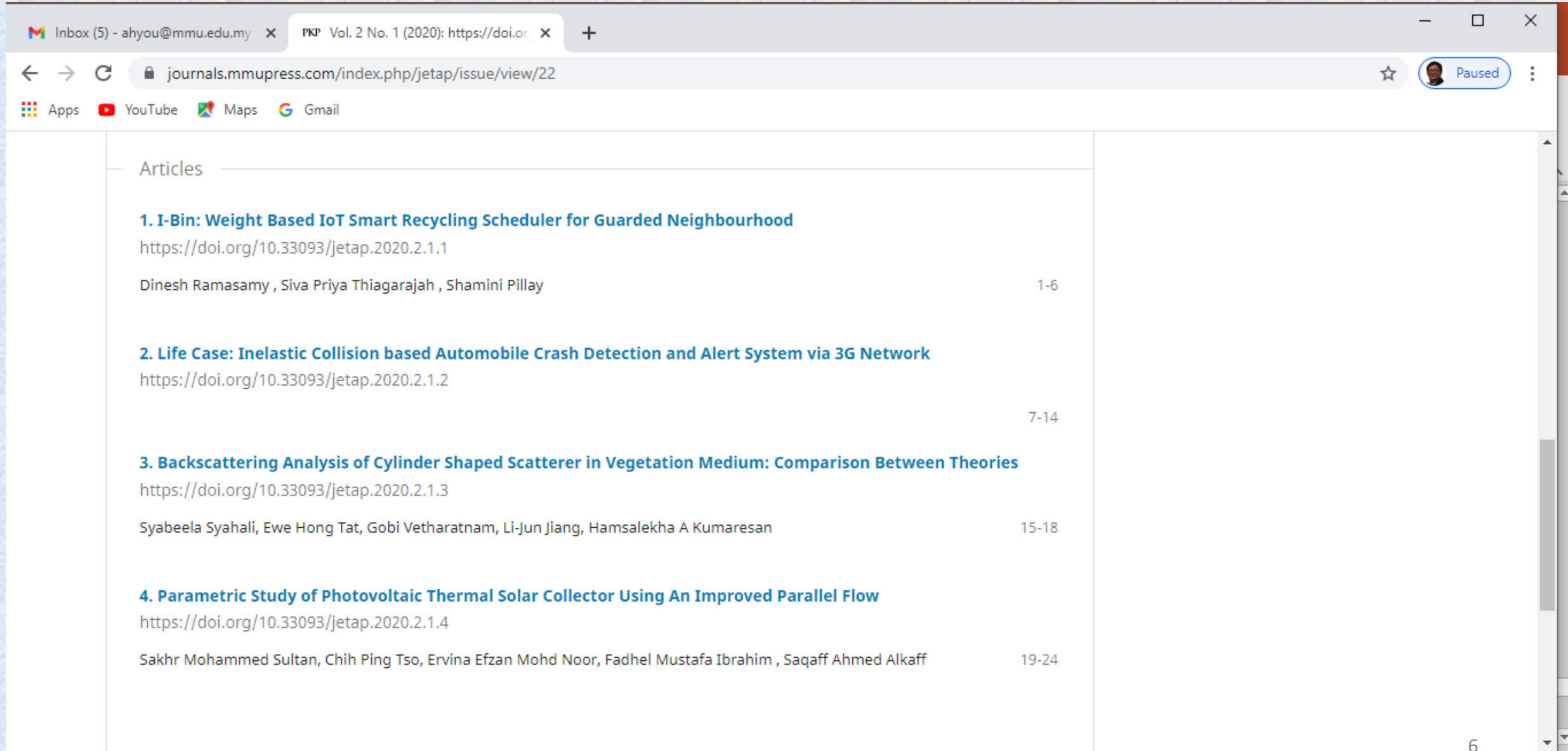
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- 1. I-Bin: Weight Based IoT Smart Recycling Scheduler for Guarded Neighbourhood**
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- 2. Life Case: Inelastic Collision based Automobile Crash Detection and Alert System via 3G Network**
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1. I-Bin: Weight Based IoT Smart Recycling Scheduler for Guarded Neighbourhood

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Dinesh Ramasamy

Faculty of Engineering and Technology, Multimedia University.

Siva Priya Thiagarajah

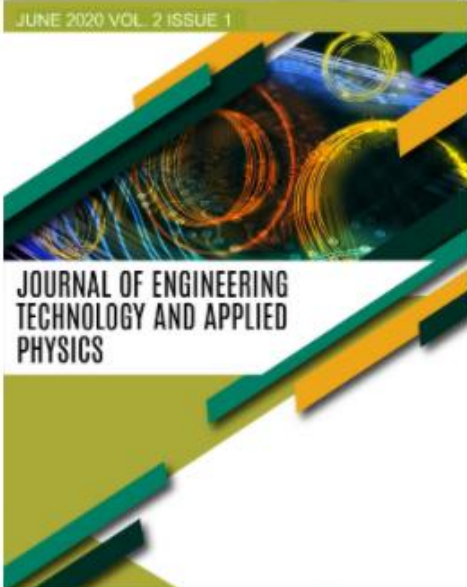
Faculty of Engineering and Technology, Multimedia University.

Shamini Pillay

Faculty of Engineering and Technology, Multimedia University.

Keywords: Neighbourhood centric waste management, IoT based waste collection, Single bar load cell

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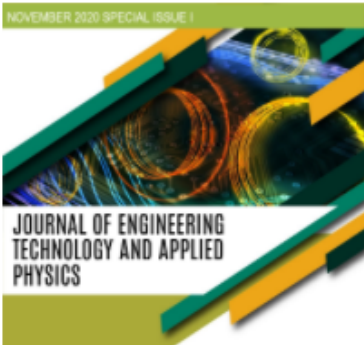
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NOVEMBER 2020 SPECIAL ISSUE 1

JOURNAL OF ENGINEERING TECHNOLOGY AND APPLIED PHYSICS

Special Issue on Remote Sensing for Sustainable Environment

This special issue consists of some selected papers from IEEE Workshop on Geoscience and Remote Sensing 2019 (IWGRS2019). It is the 6th series of yearly workshop aimed at providing a forum for the IEEE Geoscience & Remote Sensing (GRSS) members to share knowledge and experience on recent developments and advancement in geosciences and remote sensing technologies, particularly in the context of Remote Sensing for Sustainable Environment. This year, the theme of IWGRS2019 is

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No. 1. Vehicle Positioning System Based on Cubic Spline Interpolation Using Statistical Analysis

Tarak Nandy, Rafidah Md Noor, Mohd Yamani Idna Bin Idris and Sananda Bhattacharyya

<https://doi.org/10.33093/jetap.2020.x1.1, 1-5.>

No. 2. Susceptibility to Soil Erosion and Risk Assessment at Hilly Farms Using Geospatial Techniques

Nasidi. N. M., A. Wayayok , A. F. Abdullah and M. S. M. Kassim

<https://doi.org/10.33093/jetap.2020.x1.2, 6-13.>

No. 3. Estimation of Surface Runoff to Support Flood Hazards Early Warning Using Landsat 8 OLI Imagery

Ipung, Oita Mulazahwa Erlangga, Nastasya Andam Dewi, Evan Ardi Kristya Pandhadha and Wirastuti Widyatmanti

<https://doi.org/10.33093/jetap.2020.x1.3, 14-18.>

No. 4. Total Suspended Solid (TSS) Estimation in Lake Tempe, South Sulawesi Using Sentinel-2B Imagery

Evan A. K. Pandhadha, Abghy Aunurrahim, A. G. Ayudyanti, Miftahul Huda, R. N. F. Sabrina and S. Anindya

<https://doi.org/10.33093/jetap.2020.x1.4, 19-22.>

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About the Journal

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- ✓ Scientific/Technology/Technical issues with new theory/mechanisms, research methods (experimental/theory/model/simulation), results and discussion
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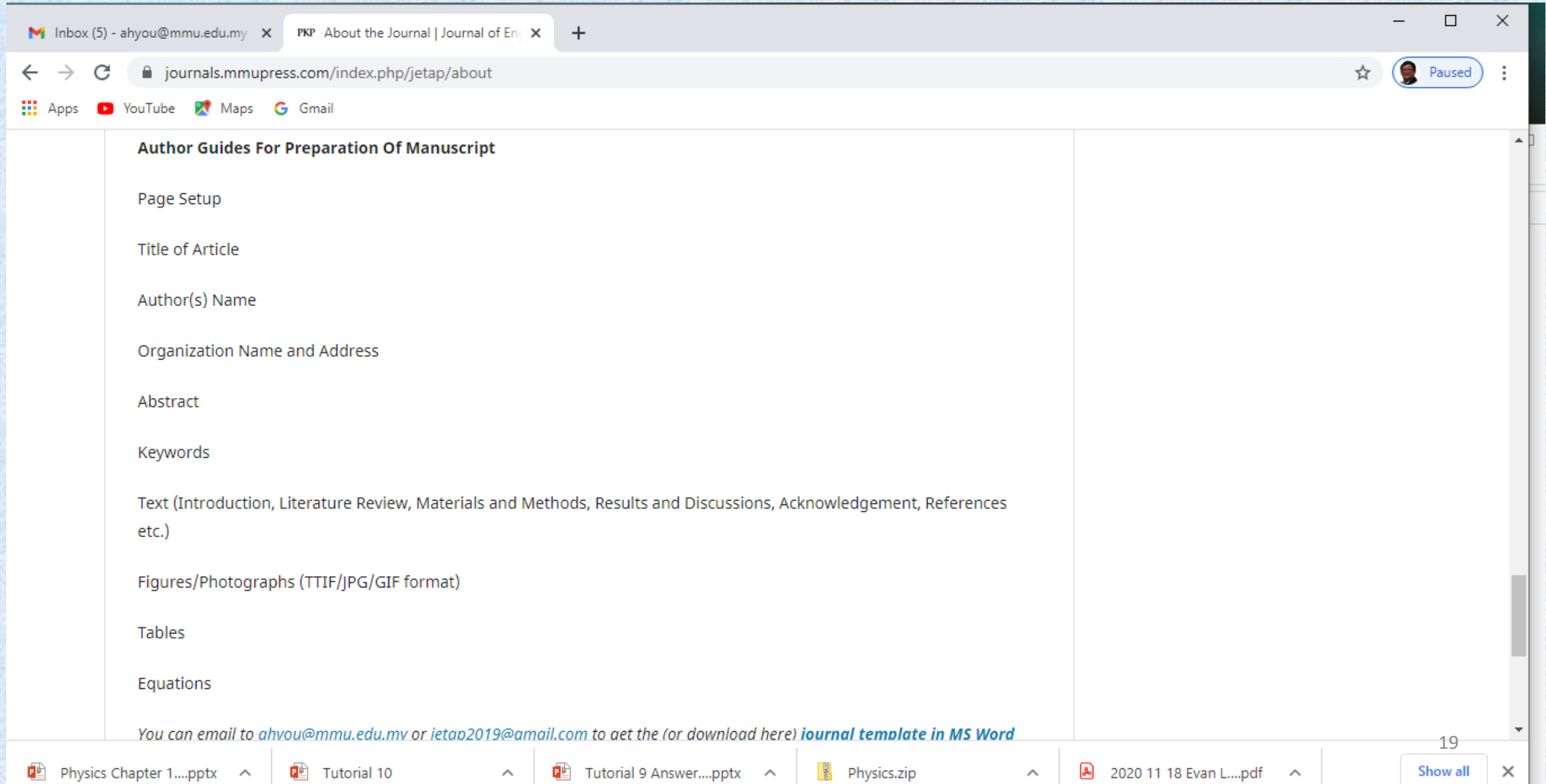
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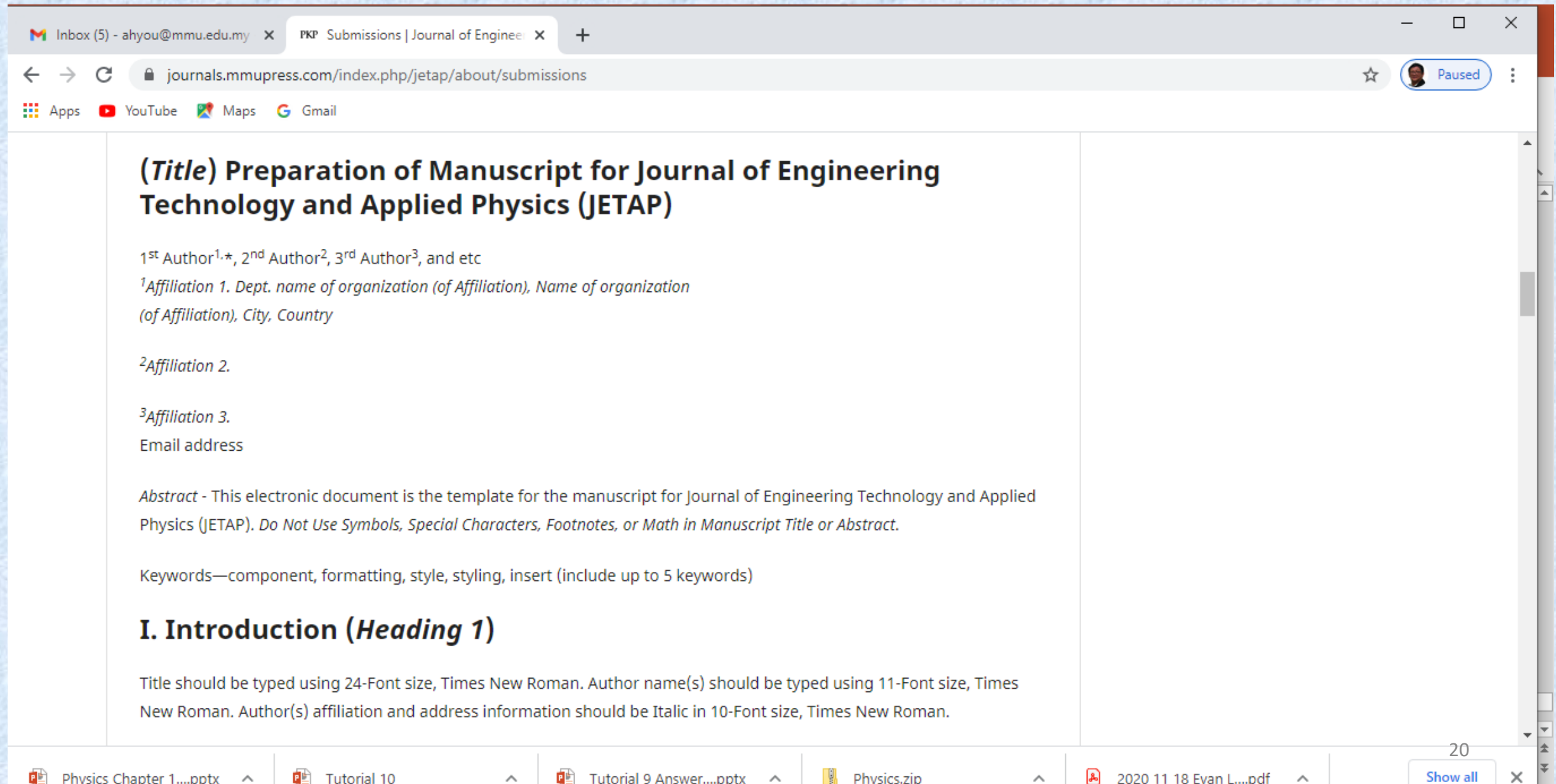
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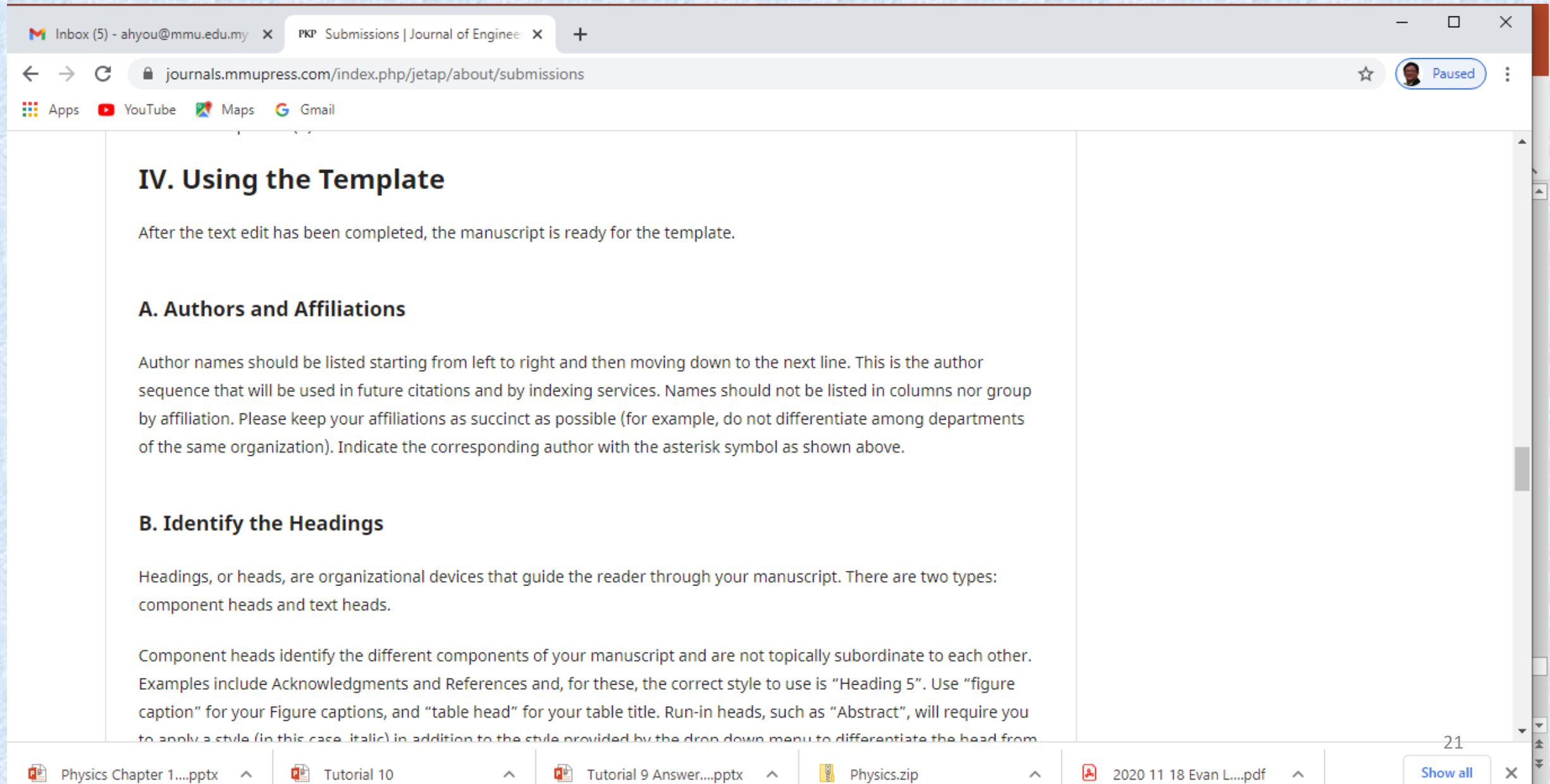
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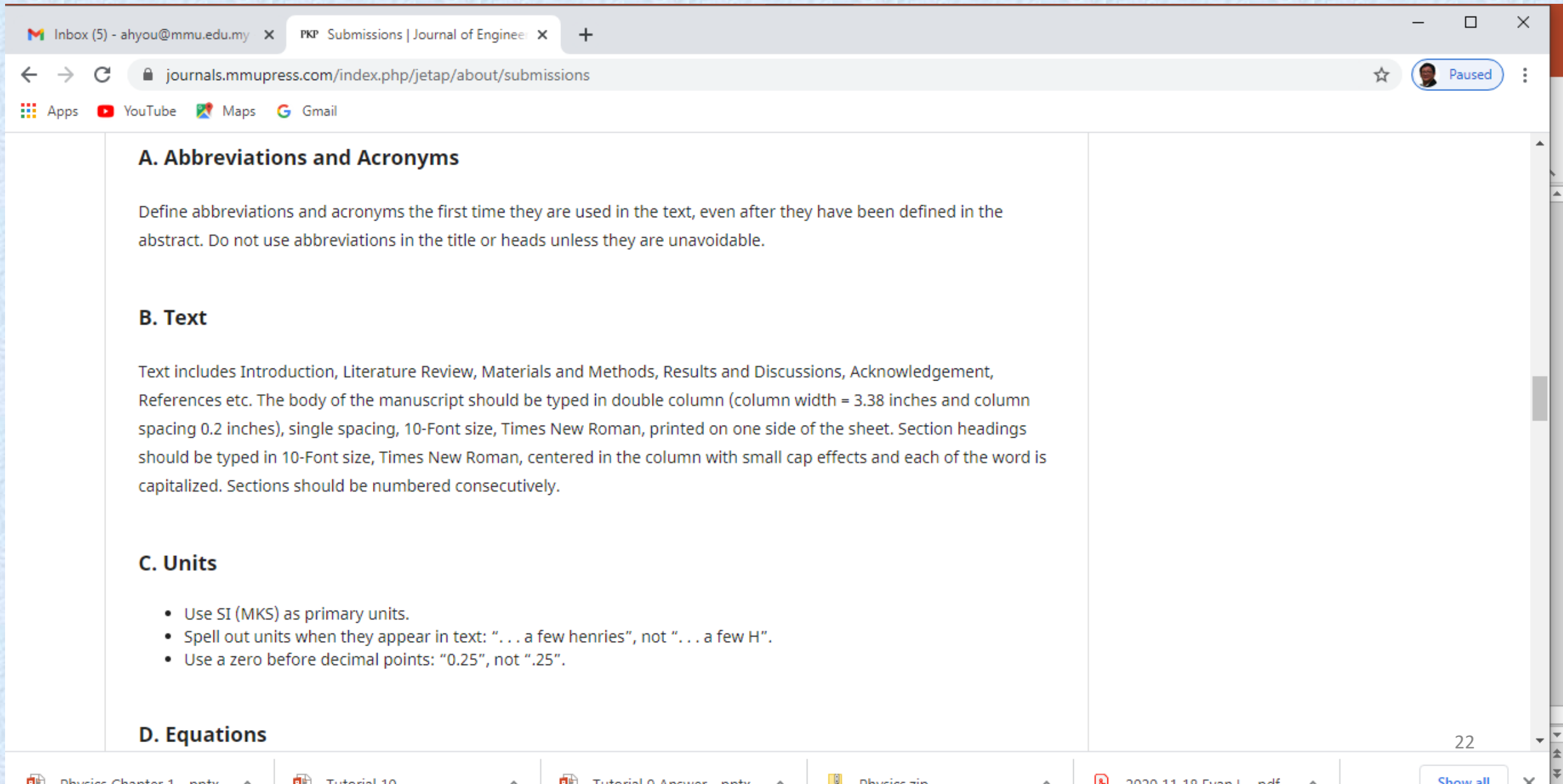
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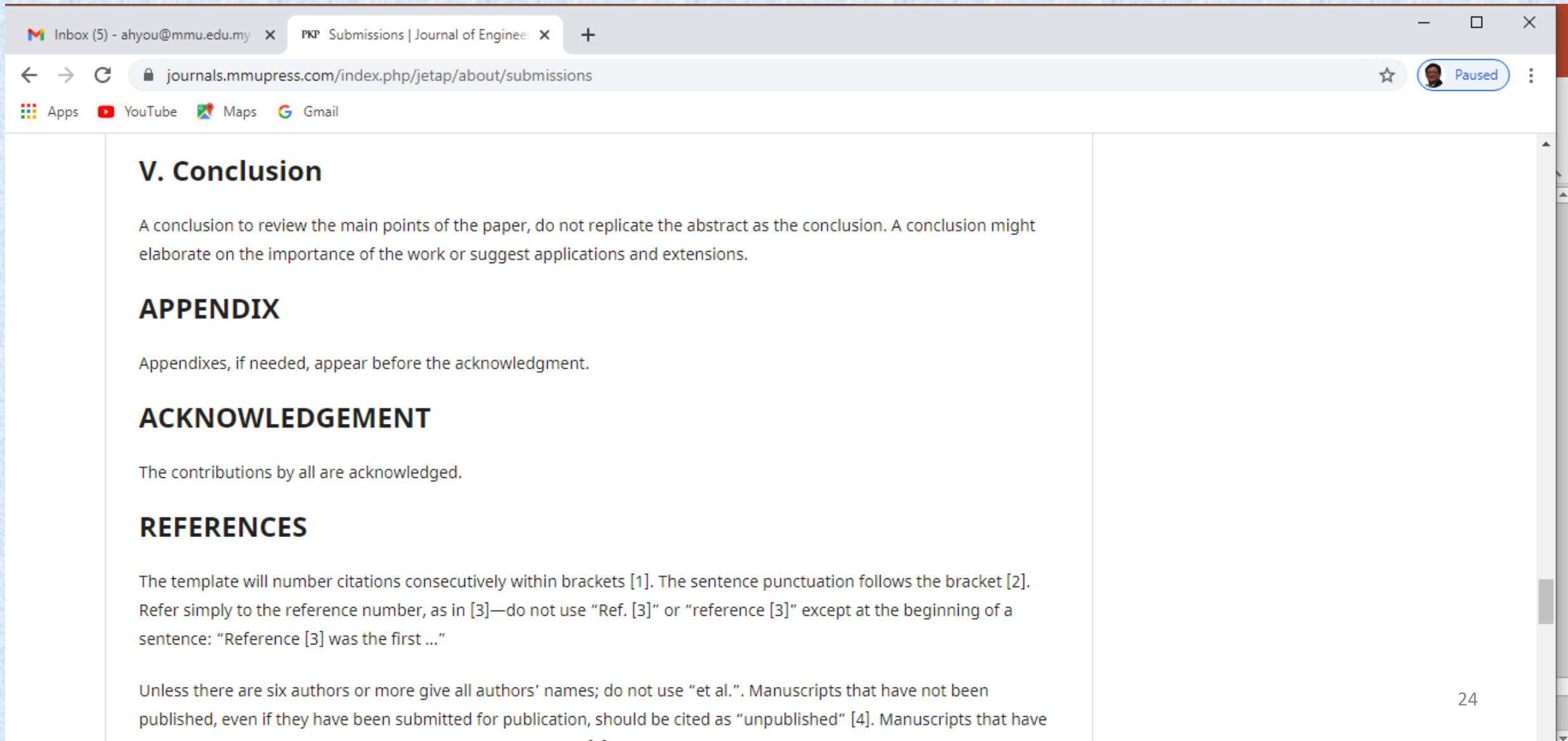
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[1] B. Eason, B. Noble and I. N. Sneddon, “On Certain Integrals of Lipschitz-Hankel Type Involving Products of Bessel functions,” *Phil. Trans. Roy. Soc. London*, vol. A247, pp. 529–551, 1955.

[2] Clerk Maxwell, *A Treatise on Electricity and Magnetism*, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp.68–73.

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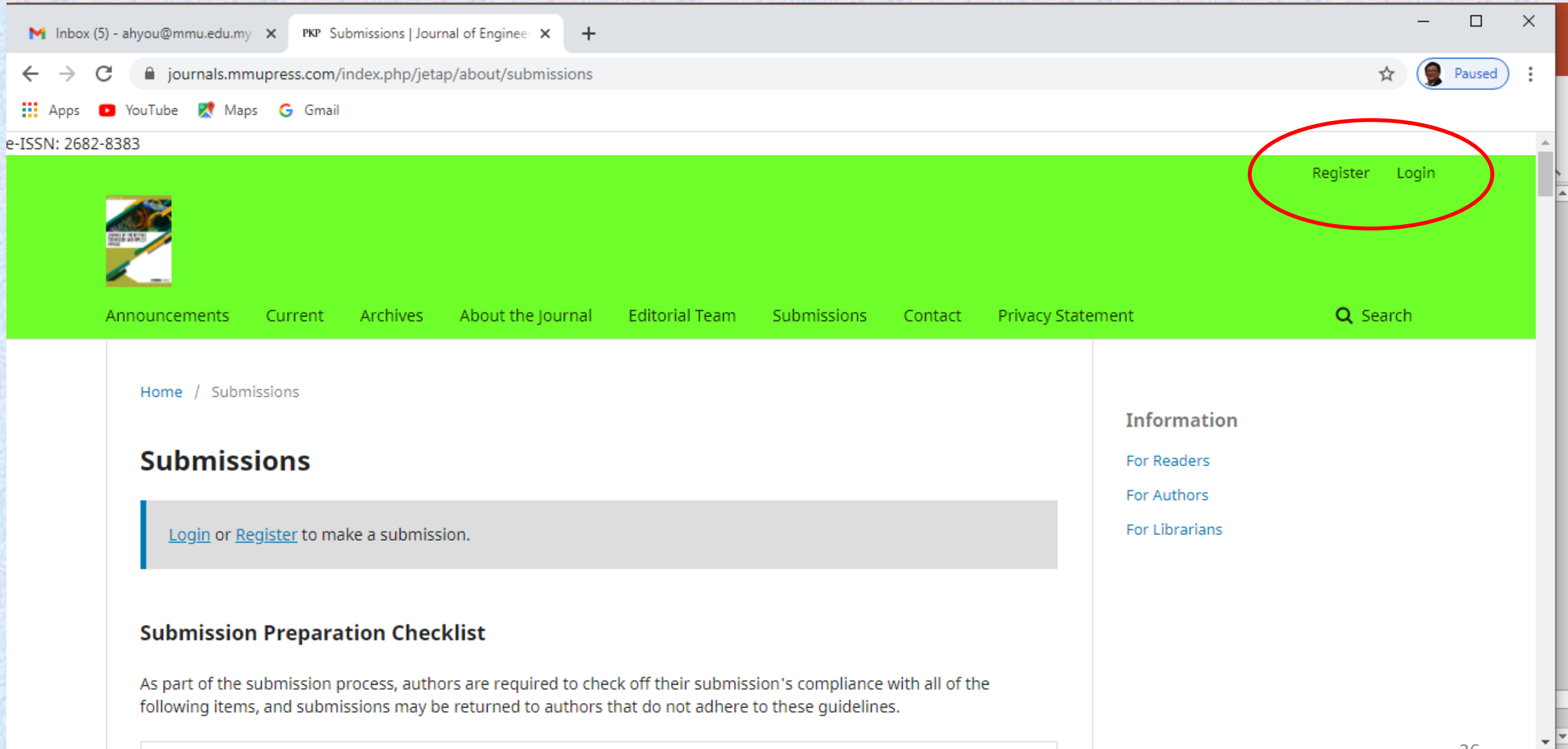
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Online Submission



The screenshot shows a web browser window with the URL `journals.mmupress.com/index.php/jetap/about/submissions`. The page has a green header with the e-ISSN: 2682-8383 and navigation links: Announcements, Current, Archives, About the Journal, Editorial Team, Submissions, Contact, Privacy Statement, and a Search bar. The main content area is white and features a 'Submissions' section with a message: 'Login or Register to make a submission.' Below this is a 'Submission Preparation Checklist' section. On the right side, there is an 'Information' section with links for 'For Readers', 'For Authors', and 'For Librarians'. The 'Register' and 'Login' links in the green header are circled in red.

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- ✓

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- ✓

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The text is single-spaced; uses a 12-point font; employs italics, rather than underlining (except with URL addresses); and all illustrations, figures, and tables are placed within the text at the appropriate points, rather than at the end.
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Author Guidelines

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Journal of Engineering Technology and Applied Physics

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17 / Lim / The Integrated Simulation and Processing Tool for Ground Based Synthetic Aperture Radar (GBSAF)

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Upload File

35-1	cslim, JETAP_zx_v0_01a.docx	August 26, 2019	Transcripts
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Submission accepted for review.

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65	Hor Sui Lyn et al. Convolutional Neural Network based Transfer Learning and Classification of Visual Contents for Film Censorship	Review 0/1	▼
62	Teng et al. Conceptual Design of Hybrid Walking Cane ⚠ Waiting for reviewers to be assigned.	Review 0/0	▼
48	Life Case: Inelastic Collision based Automobile Crash Detection and Alert System via	Submission	29 ▼

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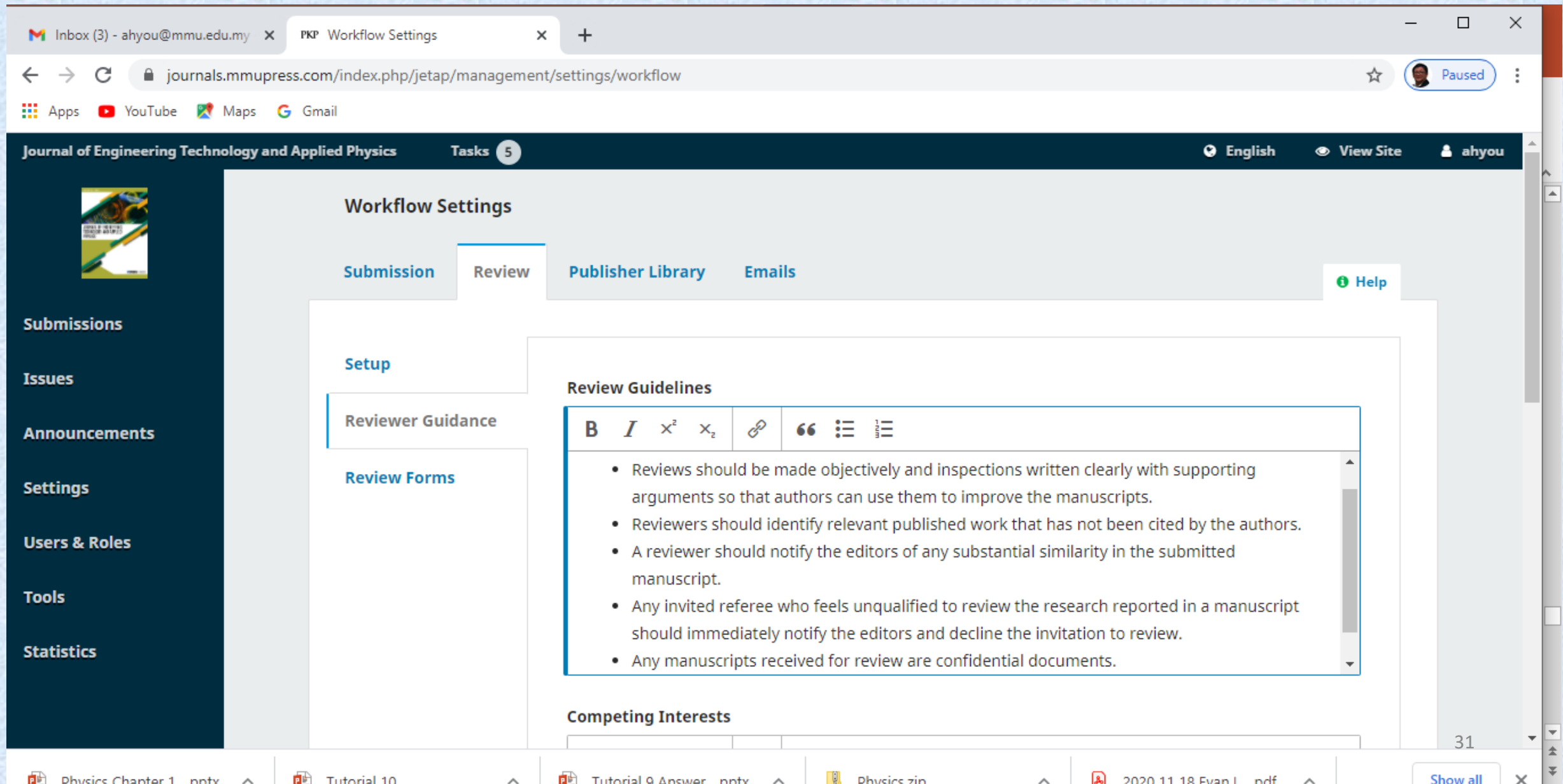
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Workflow Settings

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Setup

Reviewer Guidance

Review Forms

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Competing Interests

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1. Relevance (1 (Poor) – 5 (Excellent))

*

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Journal editor

Associate Professor Ah Heng You

Author

Chee-Siong Lim

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Heng Ah You

Review Submitted

Recommendation: Revisions Required

Double-blind

Read Review

Heng Ah You

Complete

Recommendation: Revisions Required

Double-blind

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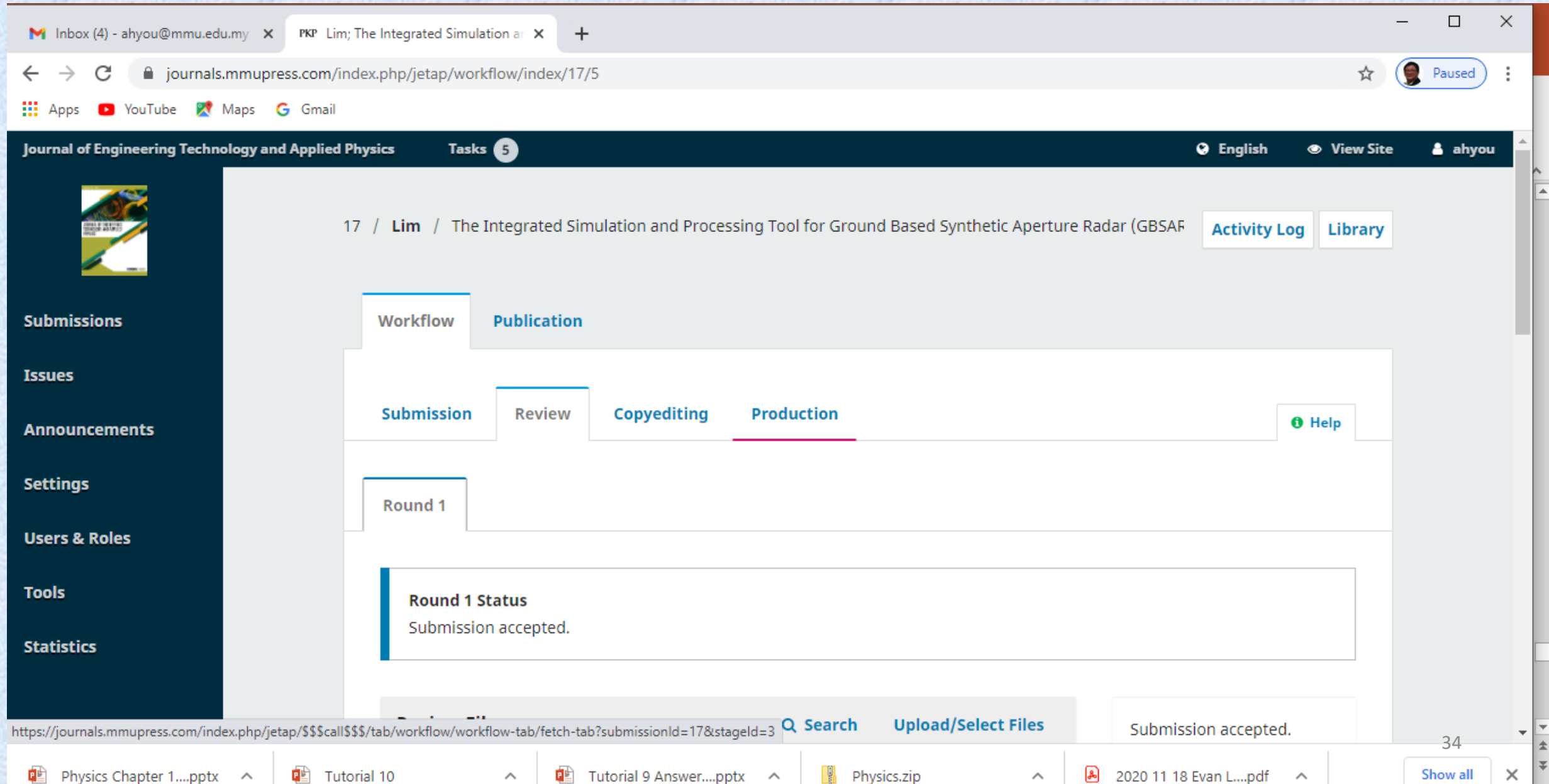
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1st, 2nd Round Review of Manuscript



The screenshot displays a web browser window with the URL `journals.mmupress.com/index.php/jetap/workflow/index/17/5`. The page is titled "Journal of Engineering Technology and Applied Physics" and shows a submission workflow for a manuscript titled "The Integrated Simulation and Processing Tool for Ground Based Synthetic Aperture Radar (GBSAF)".

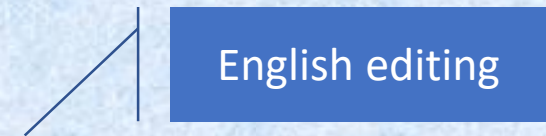
The workflow is divided into two main sections: "Workflow" and "Publication". Under "Workflow", there are four stages: "Submission", "Review", "Copyediting", and "Production". The "Production" stage is currently active, indicated by a pink underline. Below the "Production" stage, there is a "Round 1" section with a "Round 1 Status" box that states "Submission accepted."

The left sidebar contains navigation links for "Submissions", "Issues", "Announcements", "Settings", "Users & Roles", "Tools", and "Statistics". The top right corner shows the user's profile "ahyou" and a "Paused" status.

The bottom of the browser window shows the taskbar with several open files: "Physics Chapter 1....pptx", "Tutorial 10", "Tutorial 9 Answer....pptx", "Physics.zip", and "2020 11 18 Evan L....pdf".

Manuscript Revision & Proofread

- Do/response to the **manuscript revision** based on the reviewers'/editor's comments in 2 – 3 weeks.
- List down/record (in a table) the reviewers'/editor's comments point-by-point (in line-by-line).
- Update and highlight (words/sentences) the manuscript/text accordingly.
- Improve the quality of image/photo/figure/table.
- Fill in the **Author Response Form**.



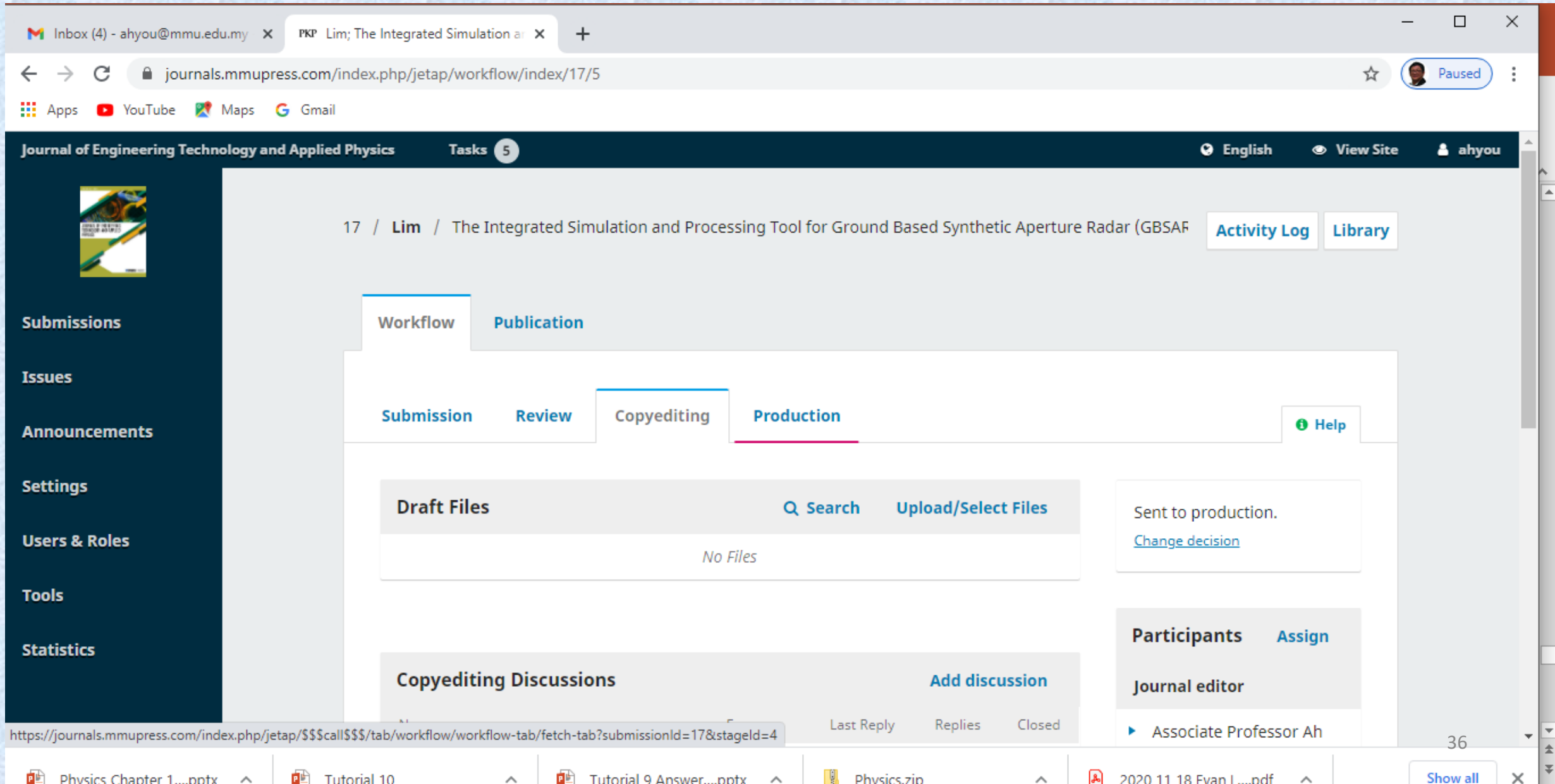
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- **During proofreading**, check the manuscript carefully and point out if there is a mistake in the text.
- Avoid too many corrections at this stage.
- Only reply with **a single communication** to the editorial in 2 – 3 days.



Minimize the editing work in Editorial/Production!

Manuscript Revision & Proofread



The screenshot shows a web browser window displaying the MMU Journals Workflow page. The browser's address bar shows the URL: `journals.mmupress.com/index.php/jetap/workflow/index/17/5`. The page title is "Journal of Engineering Technology and Applied Physics". The user is logged in as "ahyou".

The page displays the workflow for submission 17, titled "The Integrated Simulation and Processing Tool for Ground Based Synthetic Aperture Radar (GBSAF)". The workflow is divided into two main sections: "Workflow" and "Publication". The "Workflow" section is further divided into "Submission", "Review", "Copyediting", and "Production". The "Production" section is currently active, showing a status of "Sent to production." with a "Change decision" link.

The "Draft Files" section shows "No Files". The "Copyediting Discussions" section shows "Add discussion". The "Participants" section shows "Assign" and "Journal editor".

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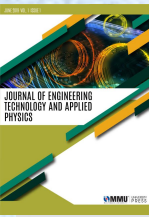
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
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

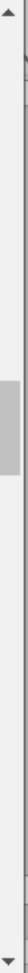



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Abstract - Transport of biomaterials in confined geometry exhibit complex dynamics, both in spatial and temporal scales. In this work, we examined the transport behavior of microalgae Chlorella Vulgaris inside the microfluidic channel under pressure-driven Poiseuille flow environment. The microalgae system is treated as the spherical naturally buoyant particles. The algae particles trajectories are visually traced using particle imaging techniques and the sample paths are resolved in streamwise (flow) and perpendicular directions. In order to understand boundary wall effects on the flow, we partitioned the microfluidic channel into three different regions, namely the center region and two near-wall boundary regions based on the velocity flow profile. Time-averaged mean square displacement (MSD), probability density function (PDF), skewness, and kurtosis of finite ensembles of particle trajectories are determined for these regions. In addition to the spatial dependencies, we also examined the transient characteristics of the algae transport at early-time and long-time. We found the existence of the mixed types for transport dynamics irrespective of flow region separation often assumed in many laminar flow simulations. This finding will be useful for optimization of mixing of algae culture in micro-scale photobioreactor as the productivity of cell growth depends critically on the cell dispersion or transport.



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Keywords—Anomalous transport, Chlorella vulgaris, Microfluidic

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