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Chemical characterization and neuroprotective properties of copper nanoparticles green-synthesized by *nigella sativa* L. seed aqueous extract against methadone-induced cell death in adrenal phaeochromocytoma (PC12) cell line

Wen Yan[a], Yutang Liu[b], Shirin Mansooridara[c], Atoosa Shahriyari Kalantari[d], Nastaran Sadeghian[e], Parham Taslimi[f], Akram Zangeneh[g,h] and Mohammad Mahdi Zangeneh[g,h]


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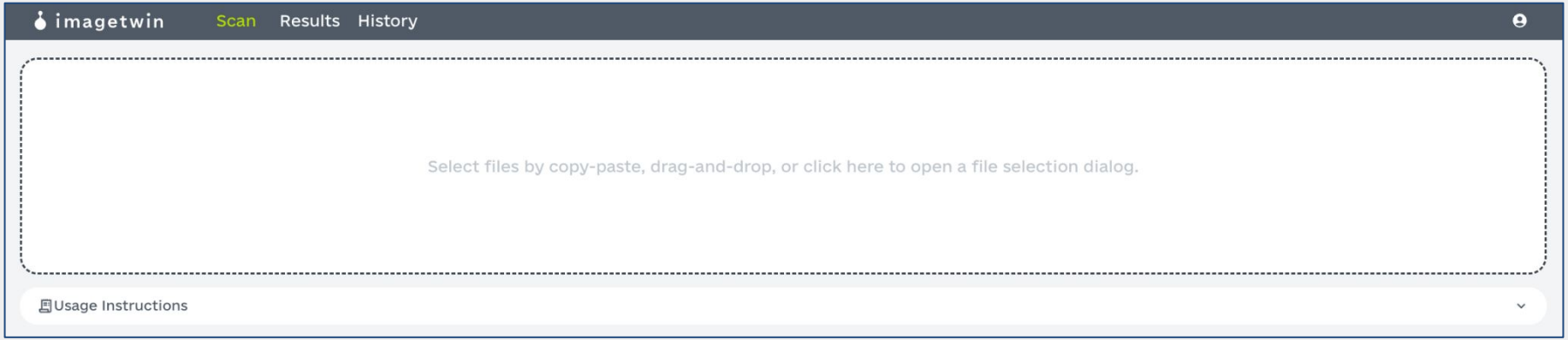

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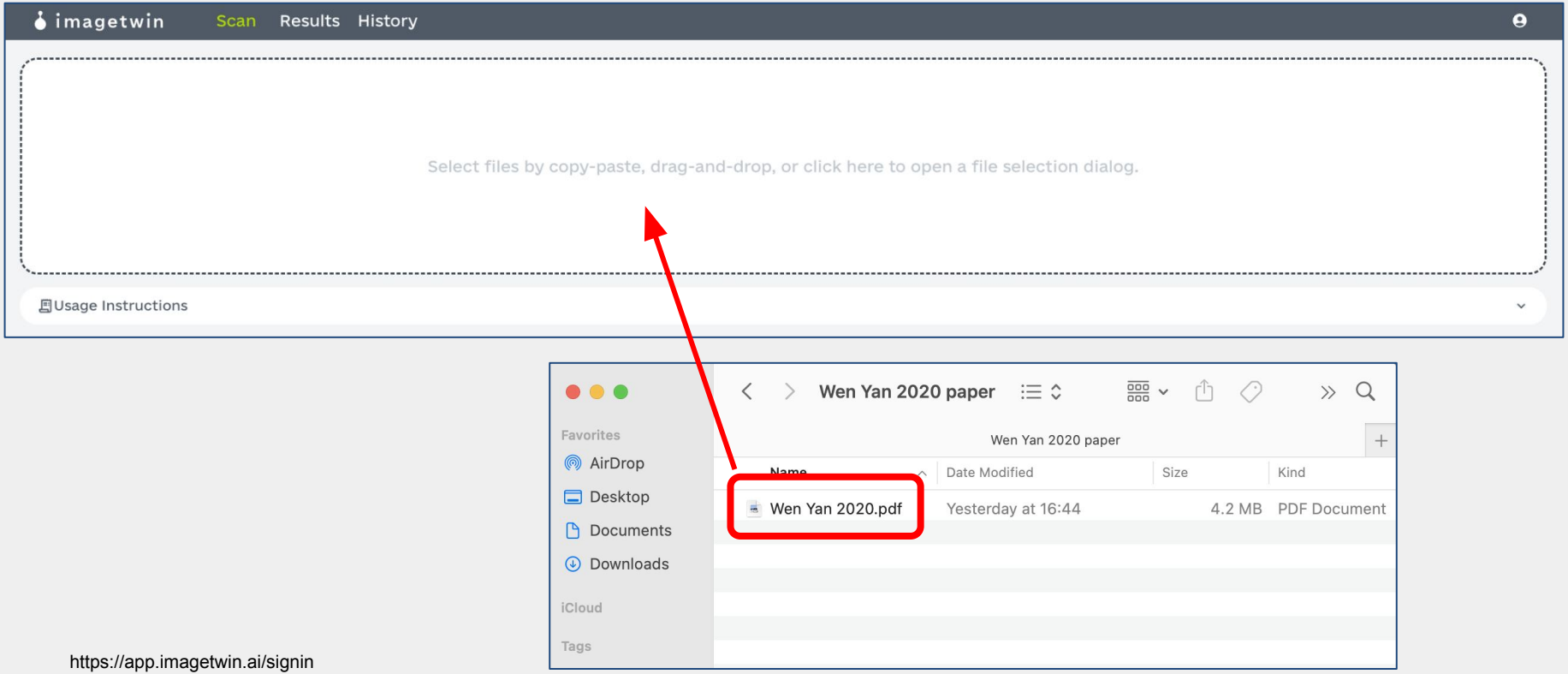

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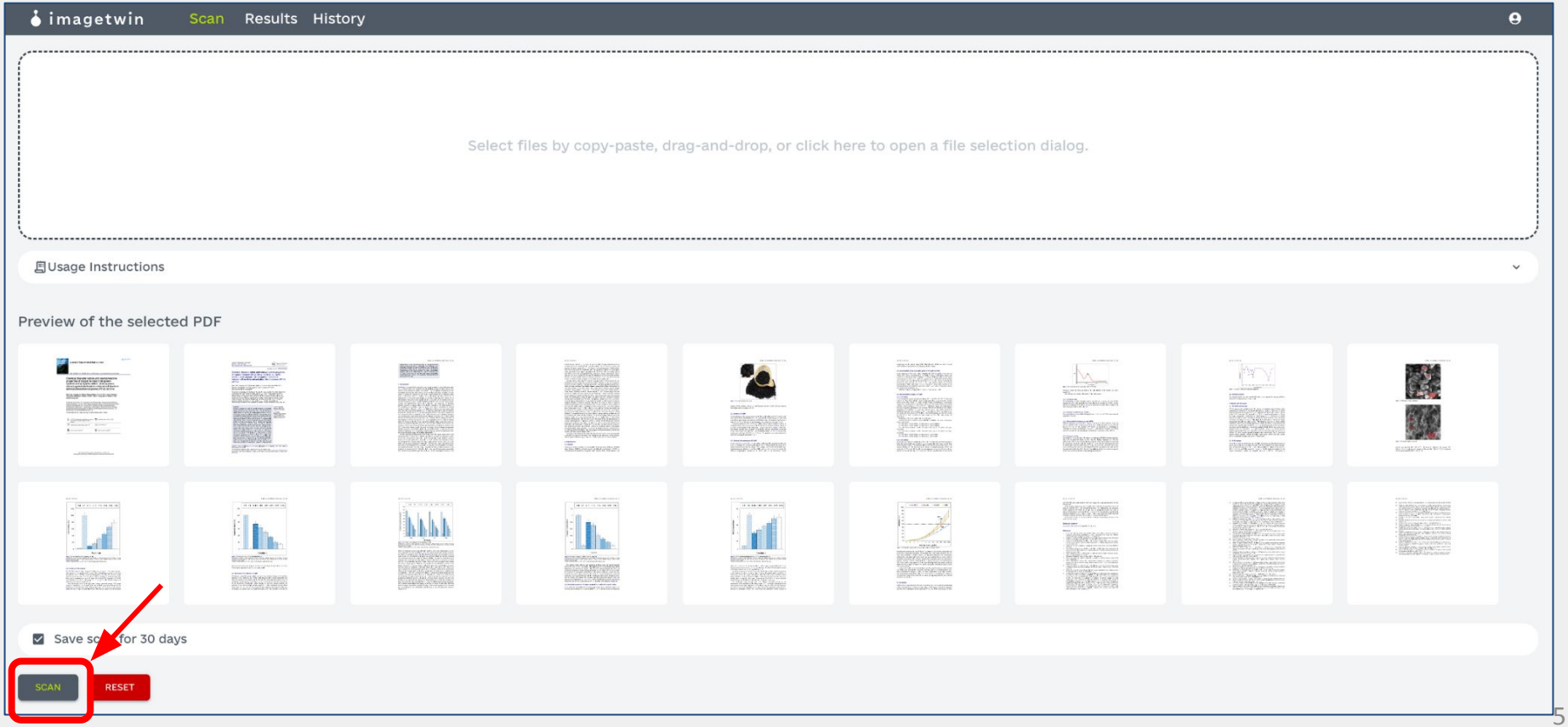

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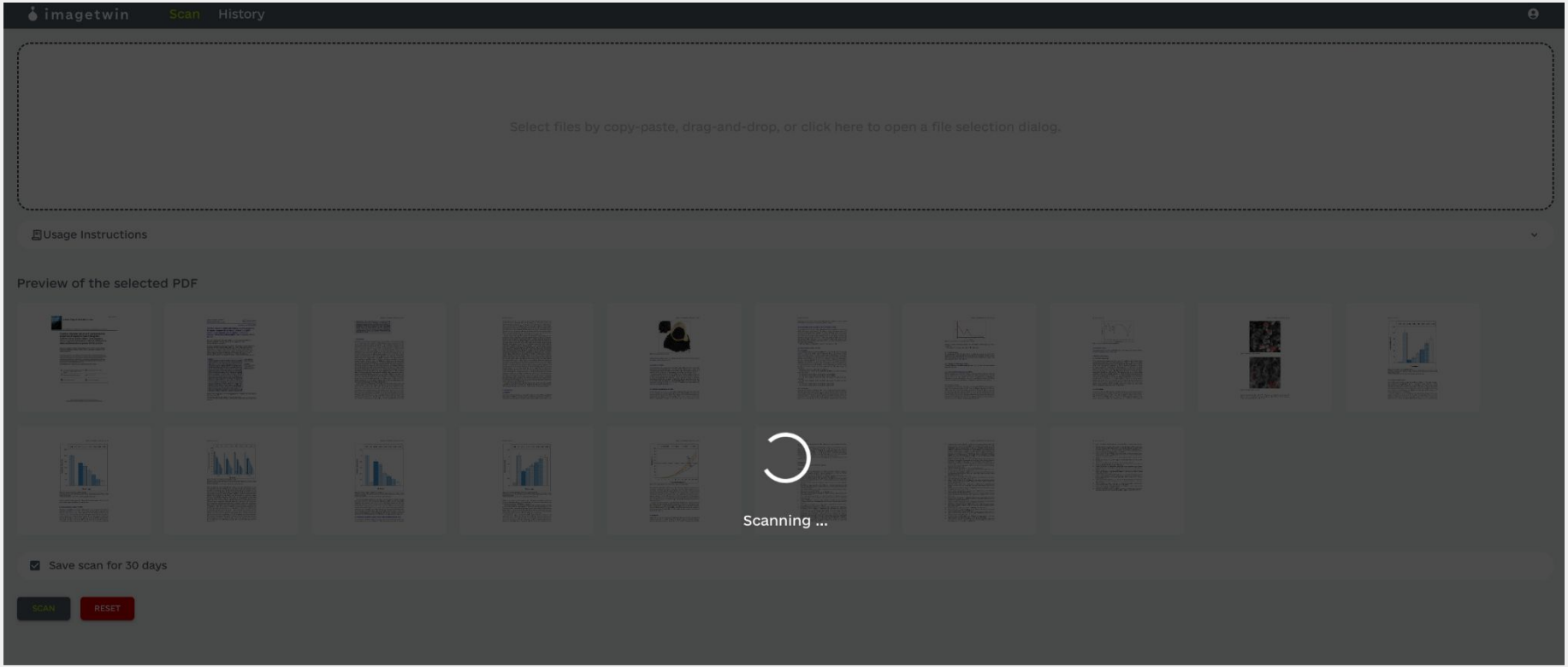

ImageTwin Demo - Finding 1

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Publications

Zhang

Authors: Zhang Peng, Cui Jian, Mansooridara Shirin, Kalantari Atoosa Shahriyari, Zangeneh Akram, Zangeneh Mohammad Mahdi, Sadeghian Nastaran, Taslimi Parham, Bayat Ramazan, Şen Fatih

Title: RETRACTED ARTICLE: Suppressor capacity of copper nanoparticles biosynthesized using Crocus sativus L. leaf aqueous extract on methadone-induced cell death in adrenal phaeochromocytoma (PC12) cell line

Published: Jul 2020

Links: doi

Sahak

Authors: Sahak Mohamad Khairul Azali, Kabir Nurul, Abbas Ghulam, Draman Suhaimi, Hashim Noor Hashida, Hasan Adli Durriyyah Sharifah

Title: The Role ofNigella sativaand Its Active Constituents in Learning and Memory

Published: 2016

Links: doi

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Dupl. publications

Figure 1. The image of *Nigella sativa* L. seed.

mixture, Ehrlich solution, hydrolysate, and dimethyl sulfoxide (DMSO), all were achieved from Sigma-Aldrich company of USA.

2.2. Synthesis of CuNPs

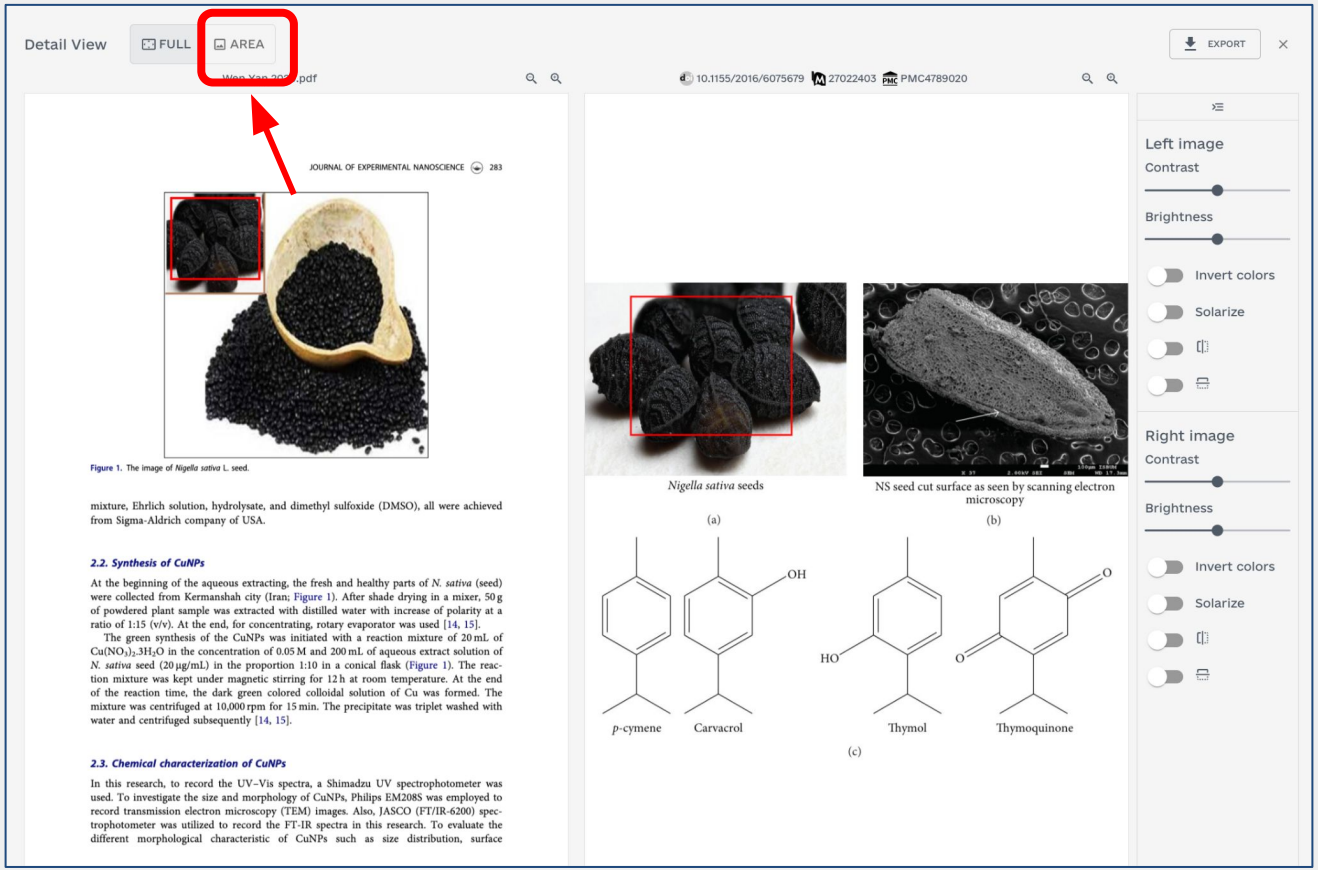
At the beginning of the aqueous extracting, the fresh and healthy parts of *N. sativa* (seed) were collected from Kermanshah city (Iran; Figure 1). After shade drying in a mixer, 50 g of powdered plant sample was extracted with distilled water with increase of polarity at a ratio of 1:15 (v/v). At the end, for concentrating, rotary evaporator was used [14, 15].

The green synthesis of the CuNPs was initiated with a reaction mixture of 20 mL of $Cu(NO_3)_2.3H_2O$ in the concentration of 0.05 M and 200 mL of aqueous extract solution of *N. sativa* seed (20 µg/mL) in the proportion 1:10 in a conical flask (Figure 1). The reaction mixture was kept under magnetic stirring for 12 h at room temperature. At the end of the reaction time, the dark green colored colloidal solution of Cu was formed. The mixture was centrifuged at 10,000 rpm for 15 min. The precipitate was triplet washed with water and centrifuged subsequently [14, 15].

2.3. Chemical characterization of CuNPs

In this research, to record the UV–Vis spectra, a Shimadzu UV spectrophotometer was used. To investigate the size and morphology of CuNPs, Philips EM208S was employed to record transmission electron microscopy (TEM) images. Also, JASCO (FT/IR-6200) spectrophotometer was utilized to record the FT-IR spectra in this research. To evaluate the different morphological characteristic of CuNPs such as size distribution, surface

ImageTwin Demo - Findings Fig.1



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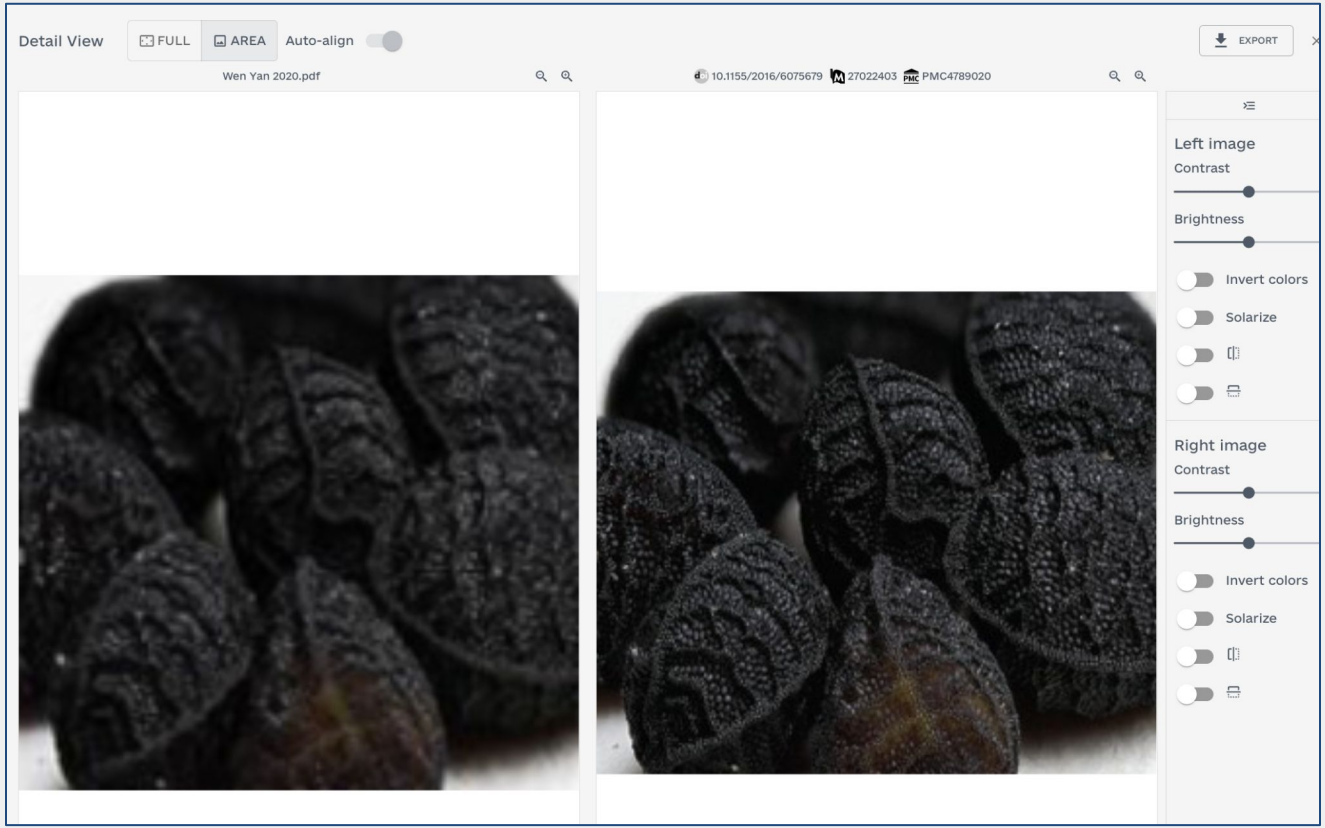
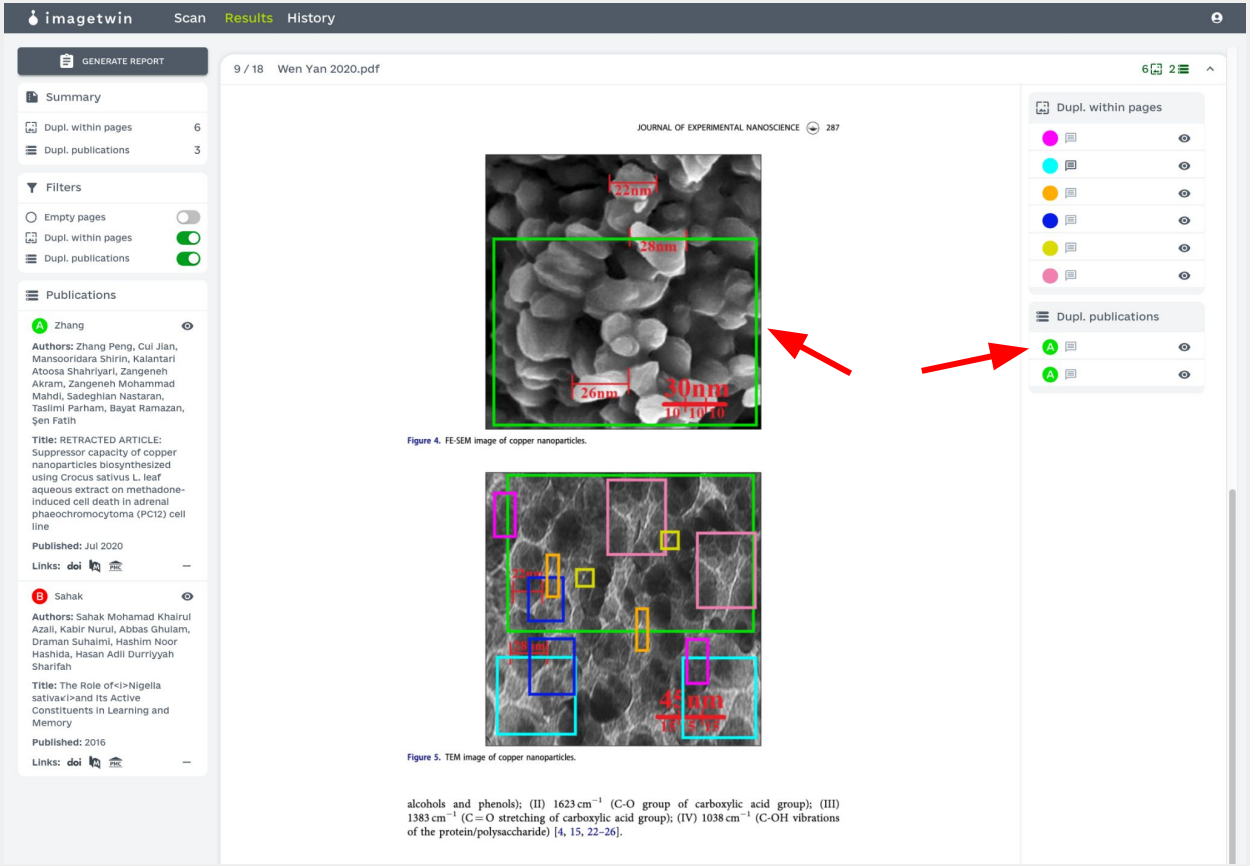


ImageTwin Demo - Findings Fig. 4/5



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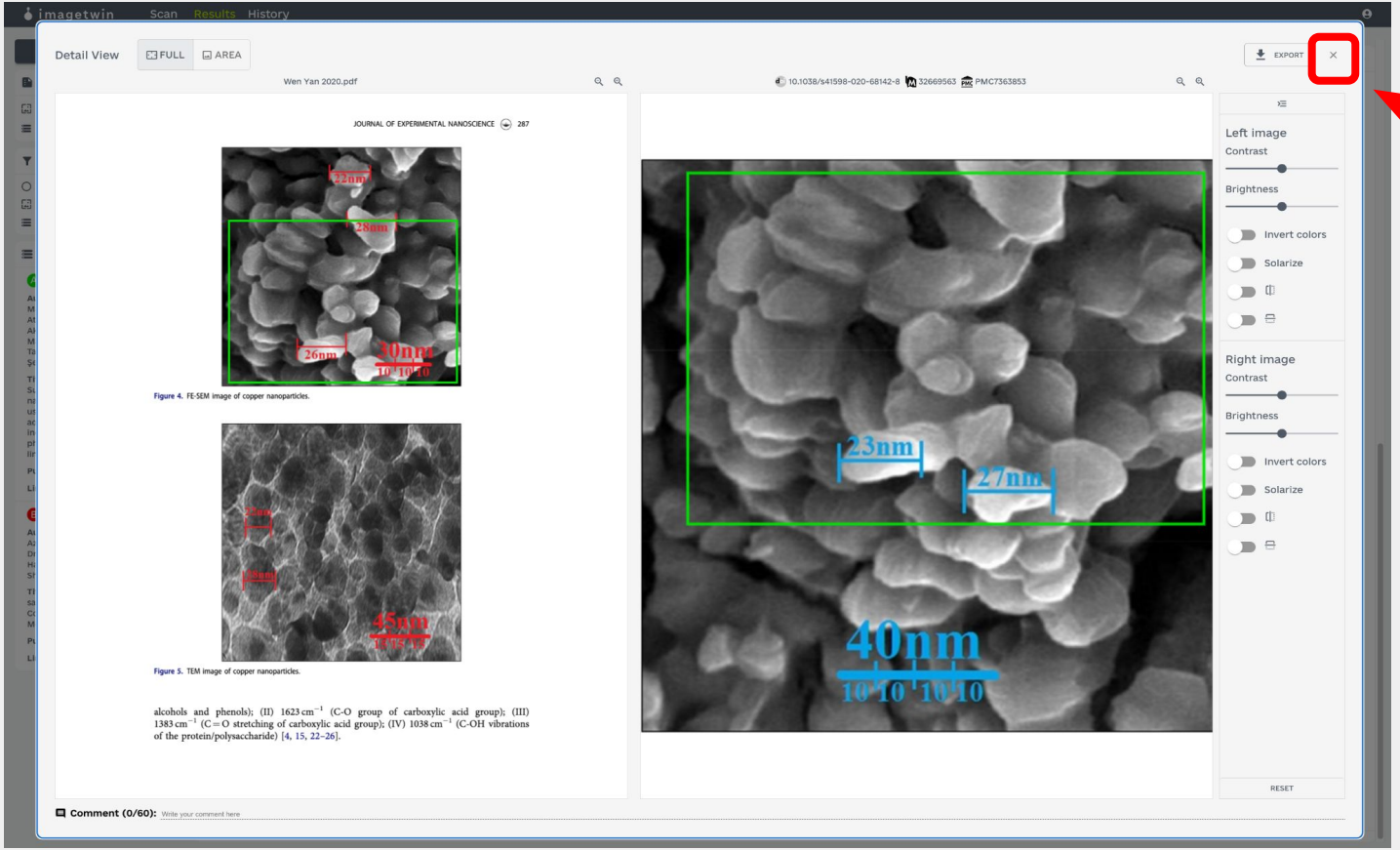
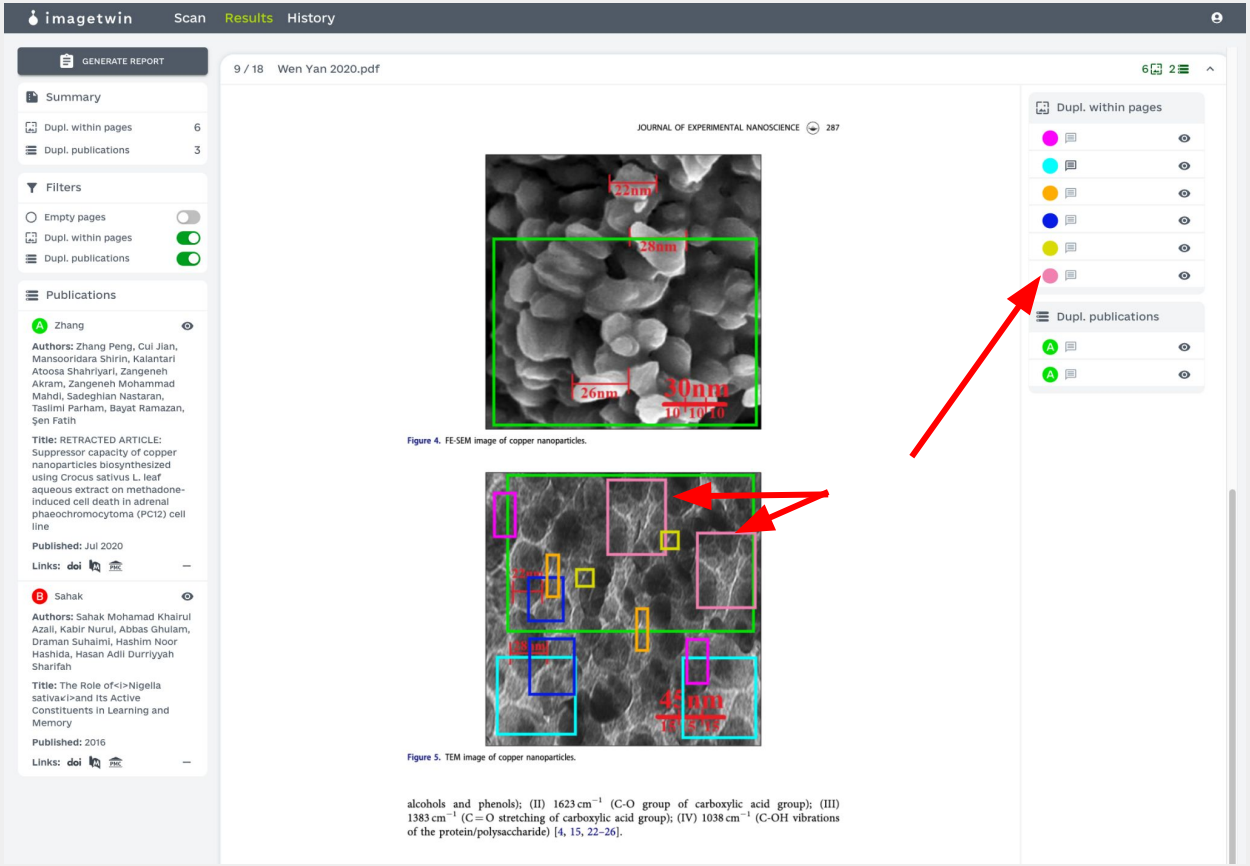
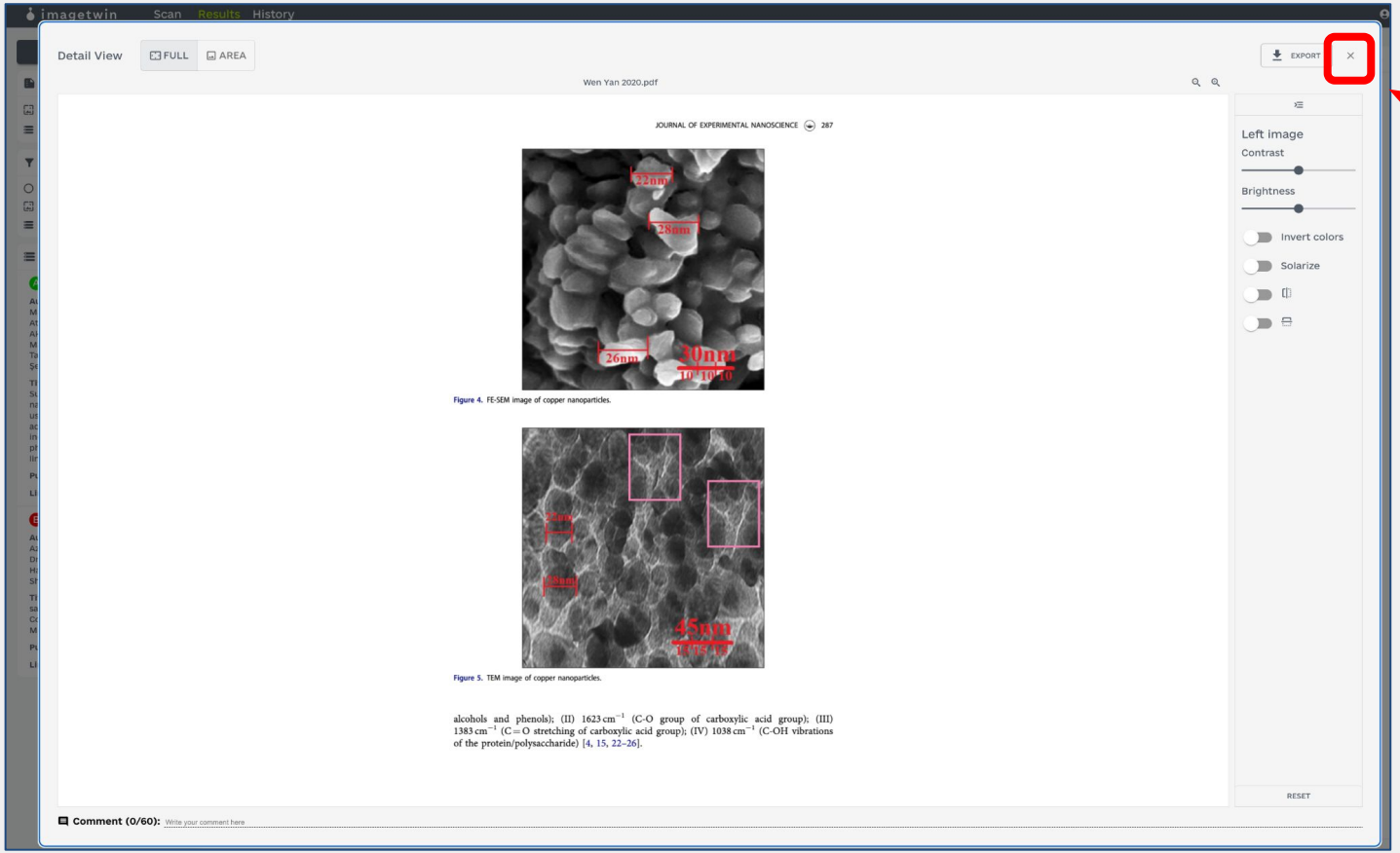


ImageTwin Demo - Findings Fig. 4/5



ImageTwin Demo - Findings Fig.5



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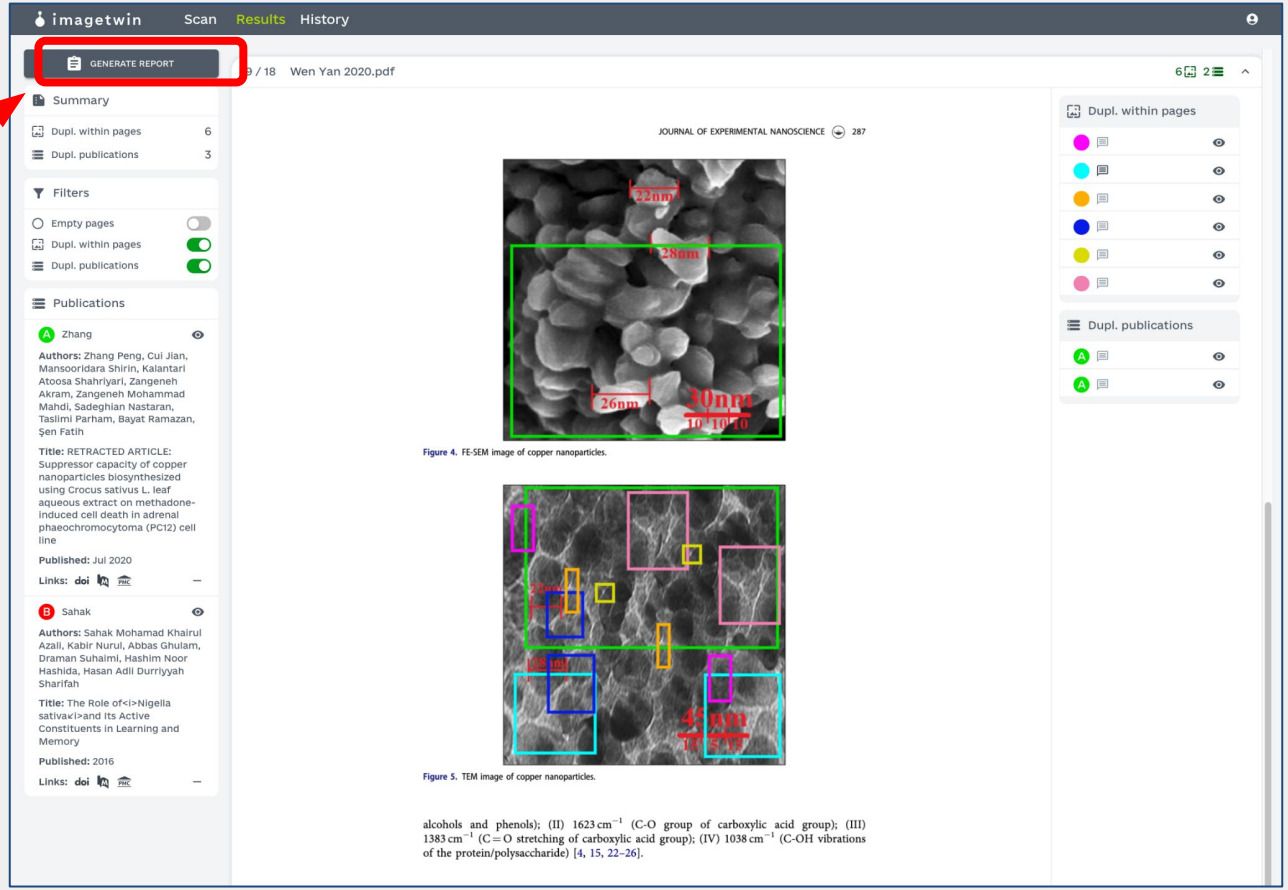

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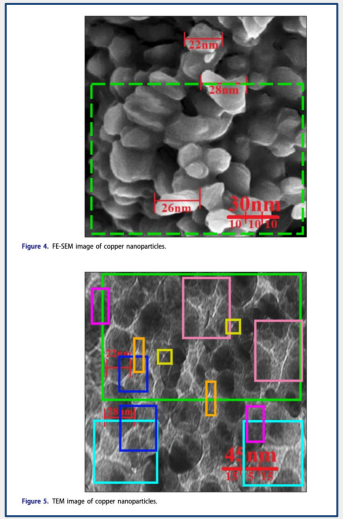

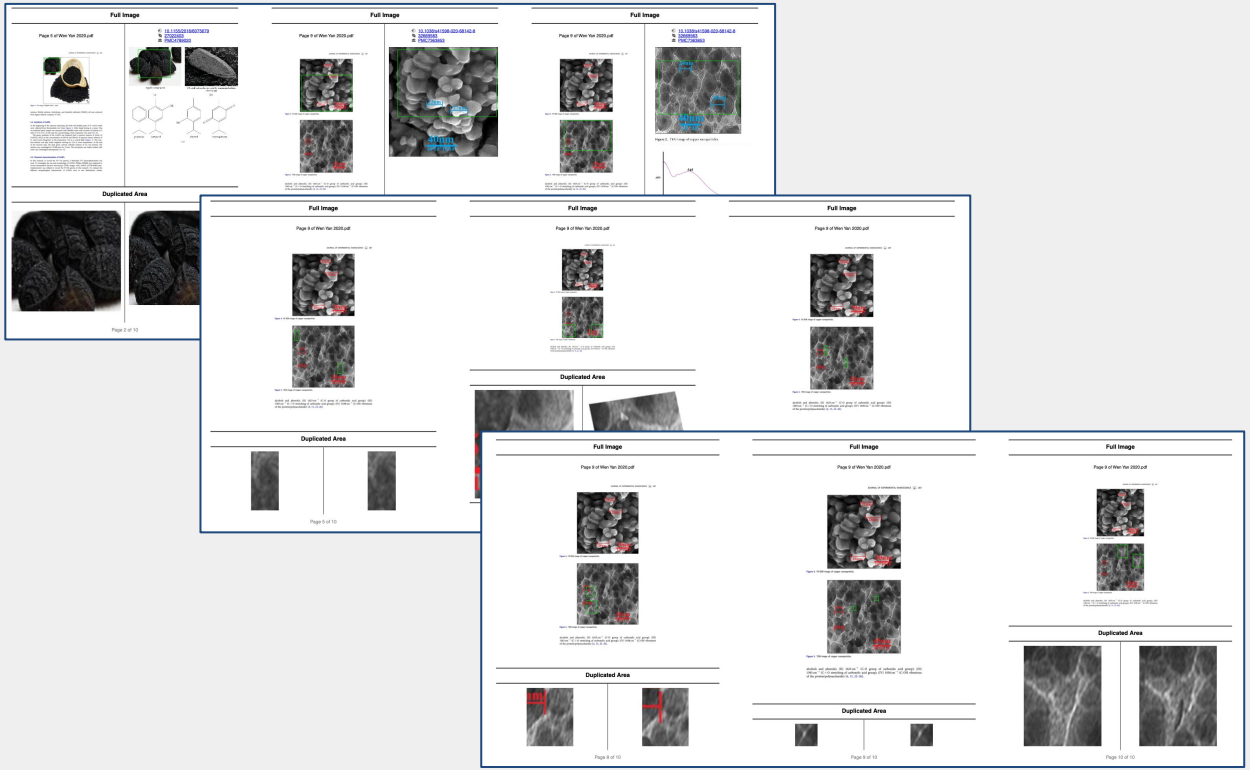


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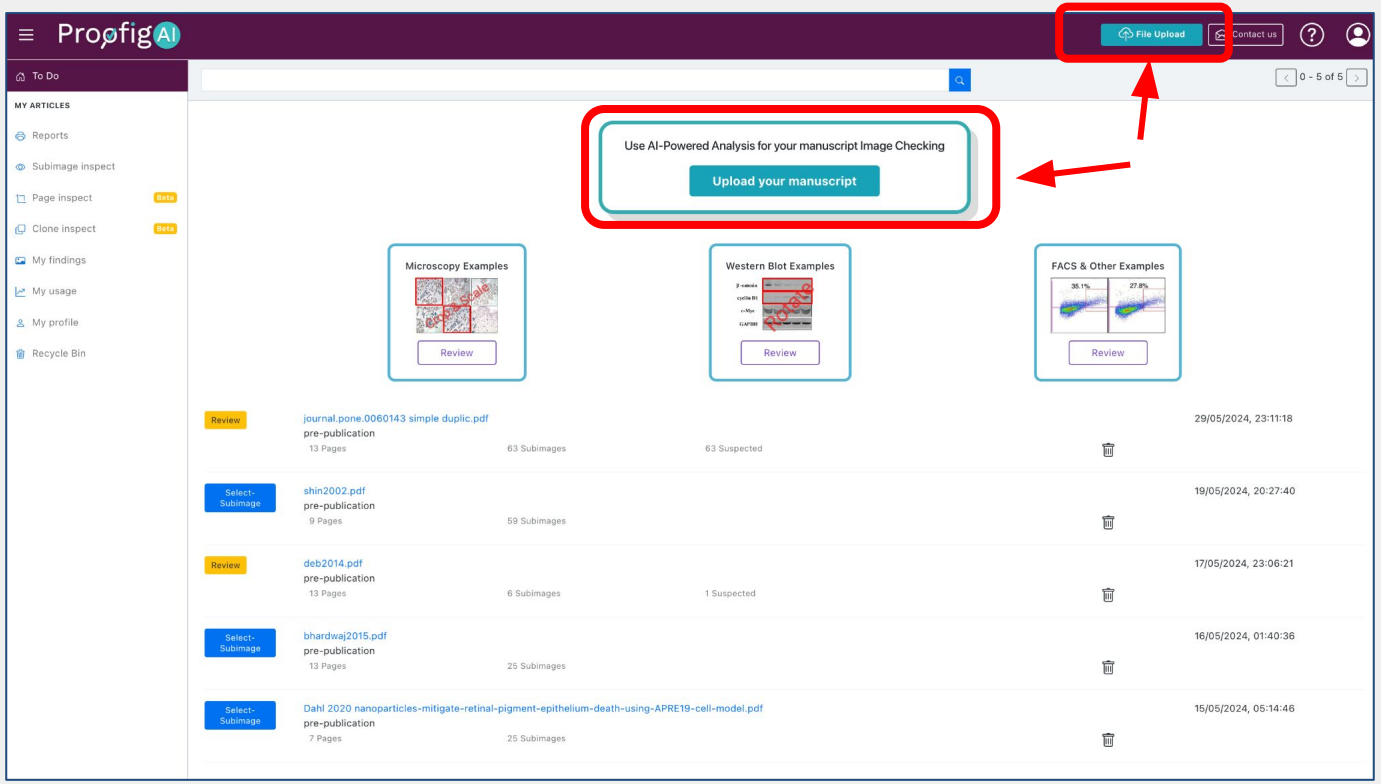

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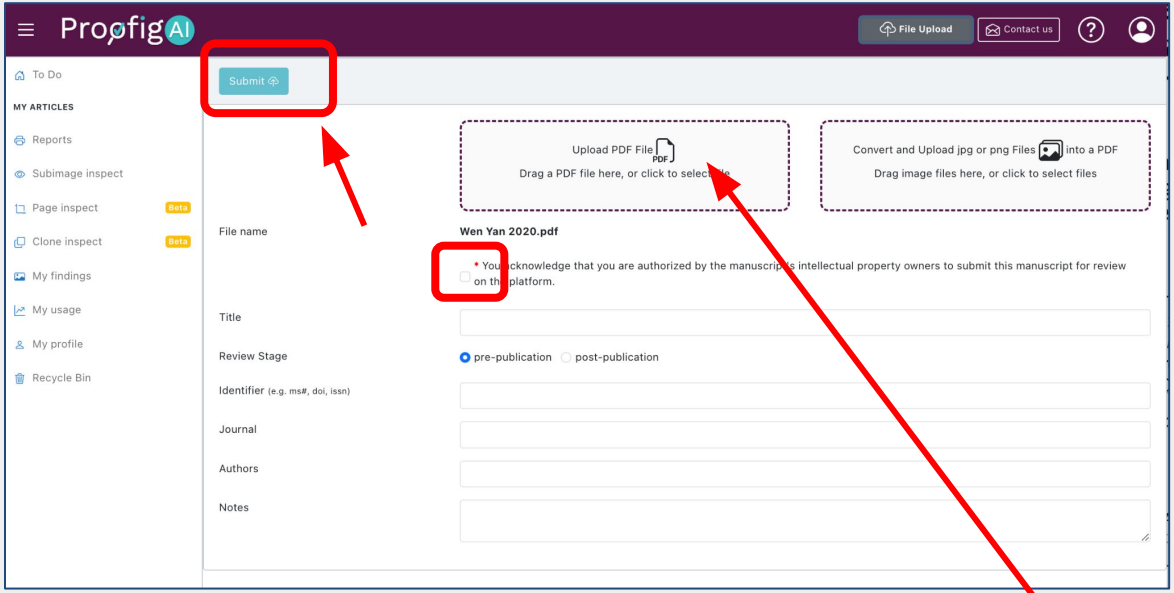

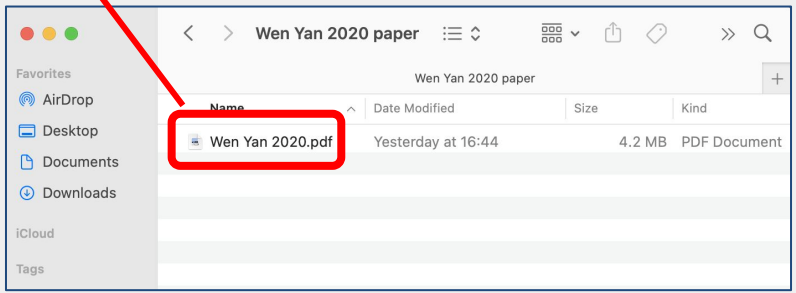

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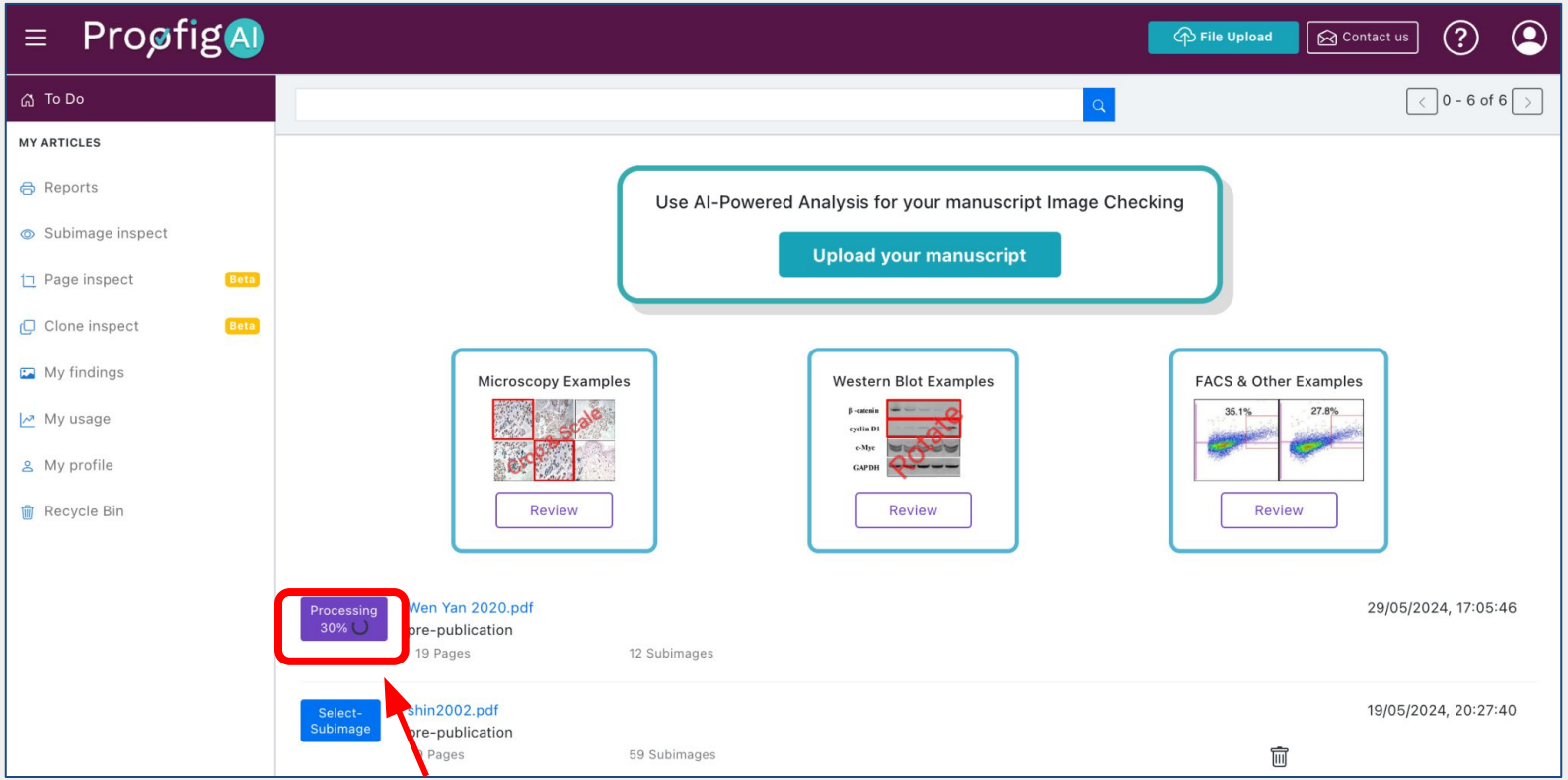

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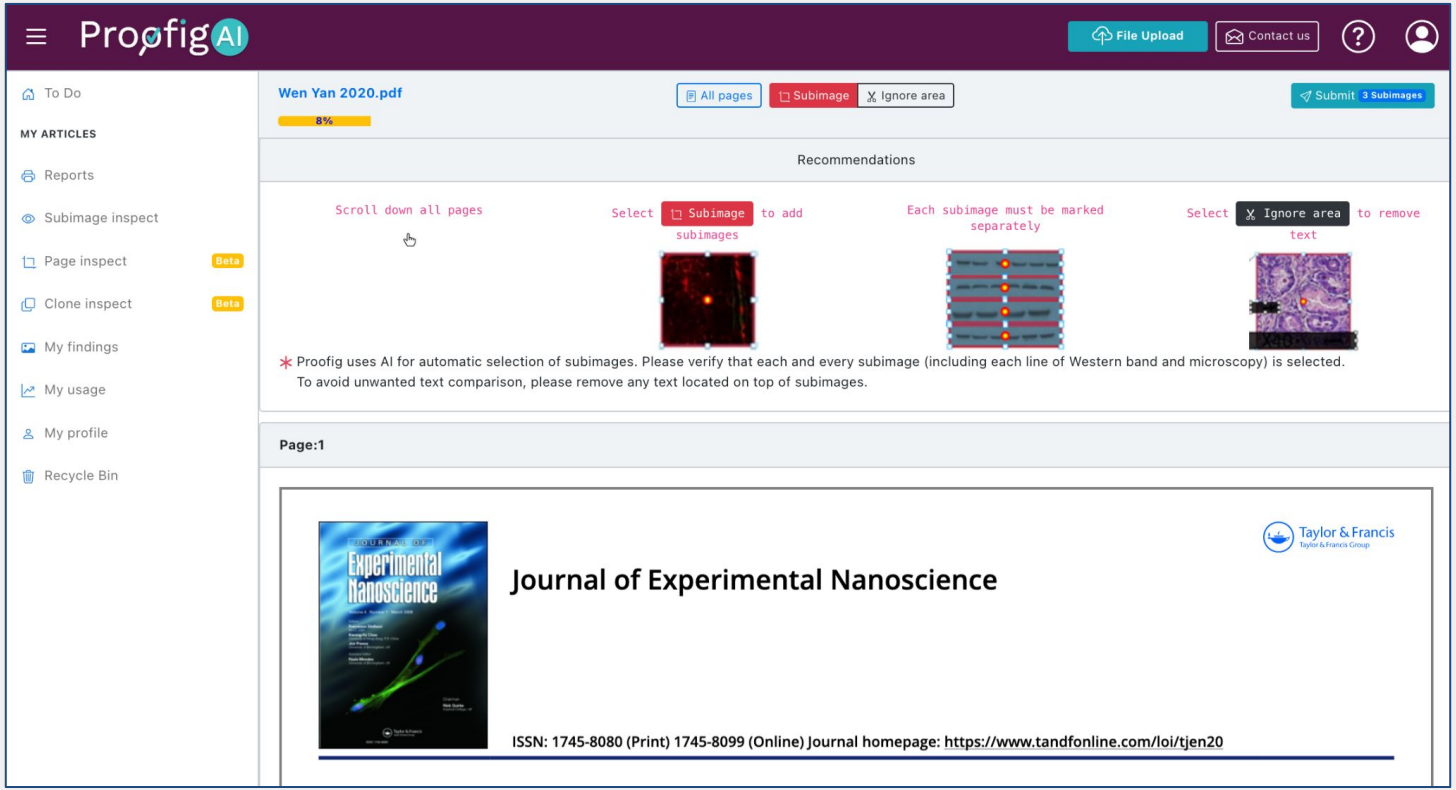

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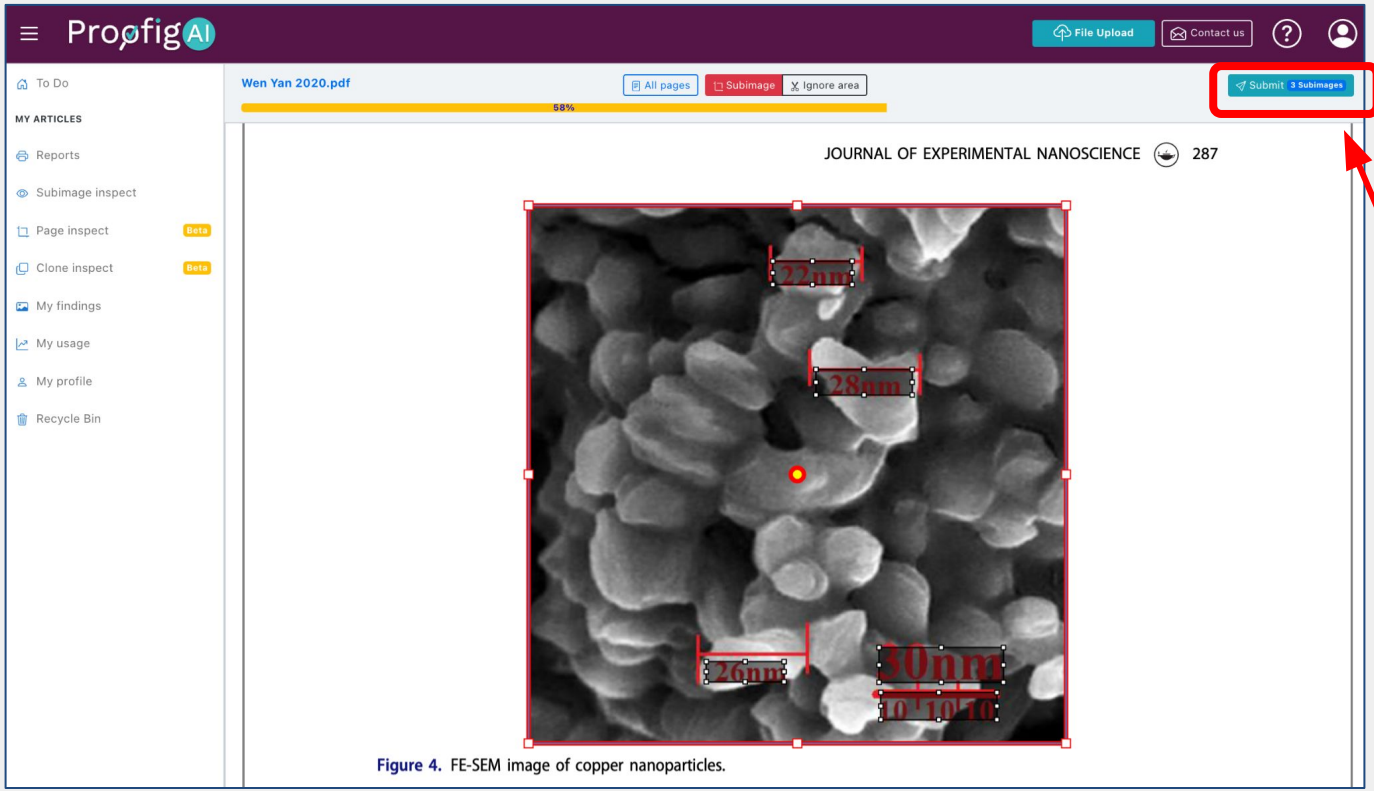

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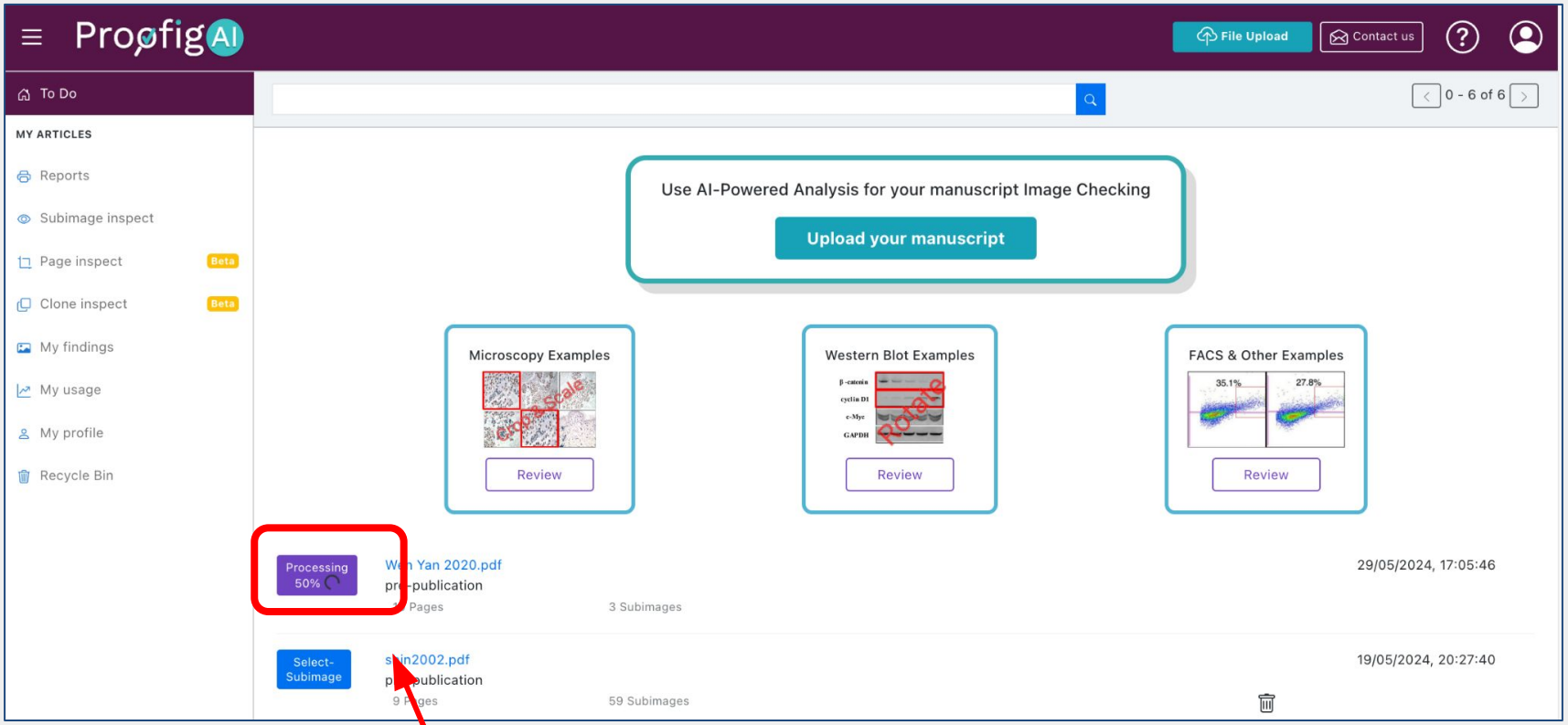

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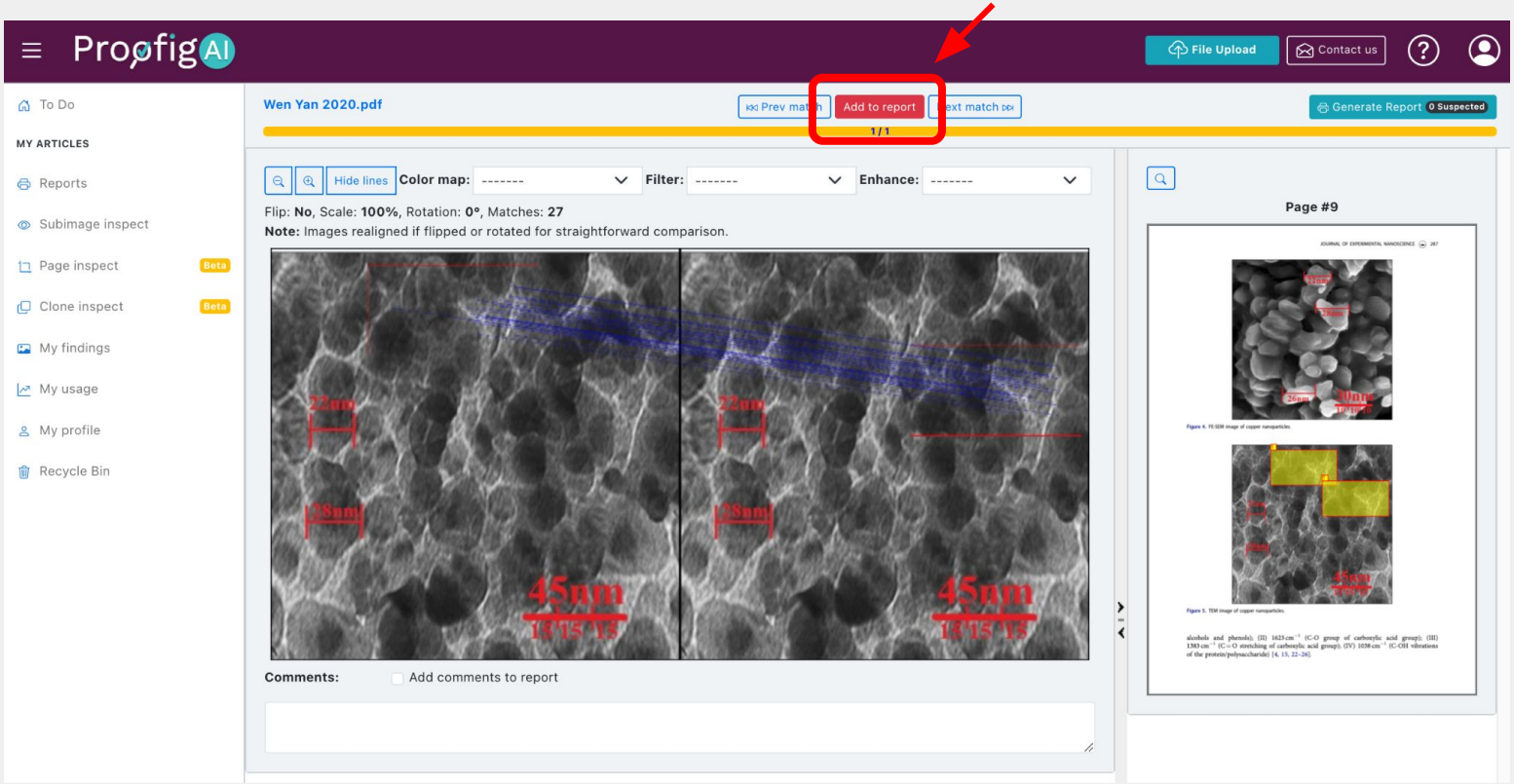

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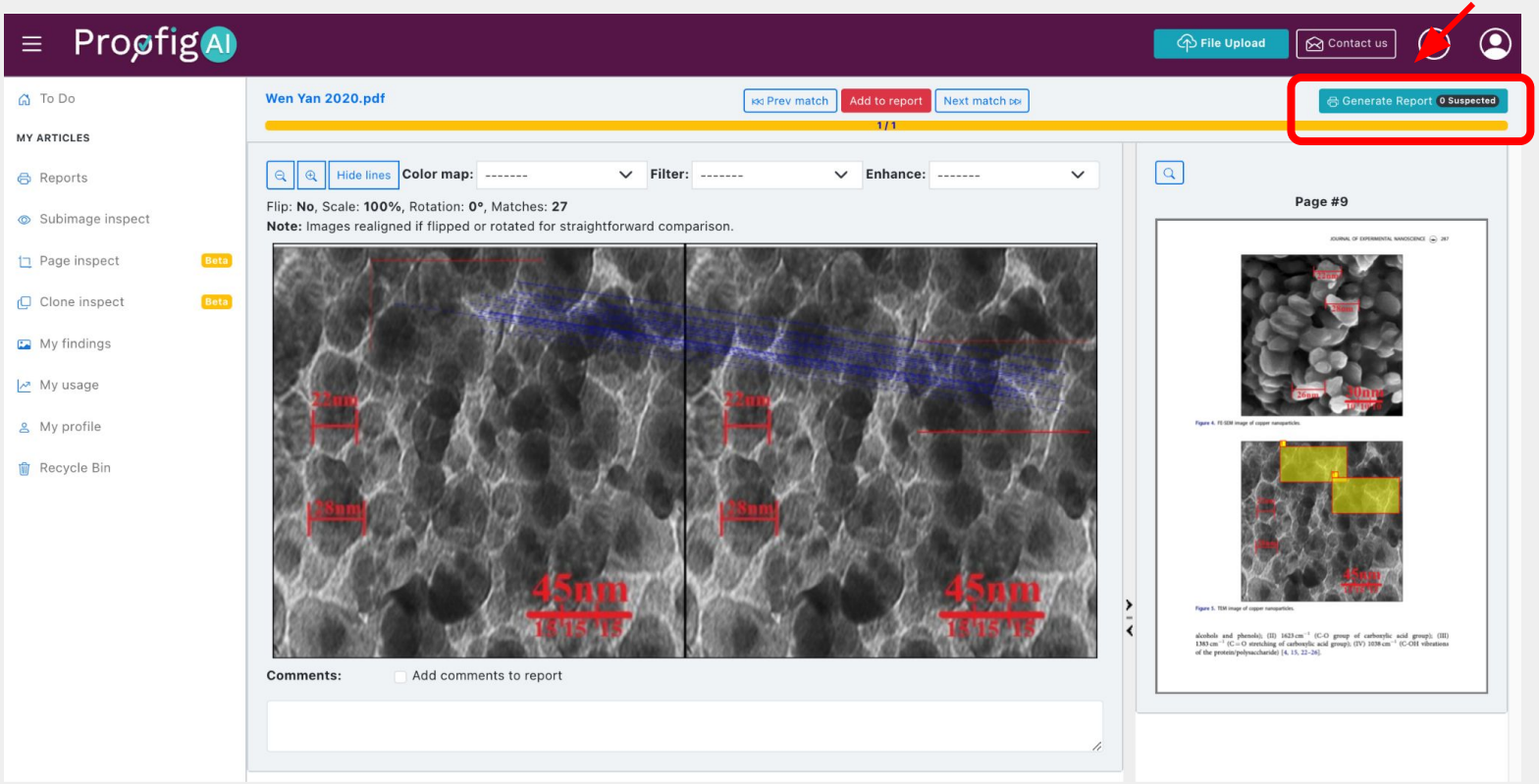

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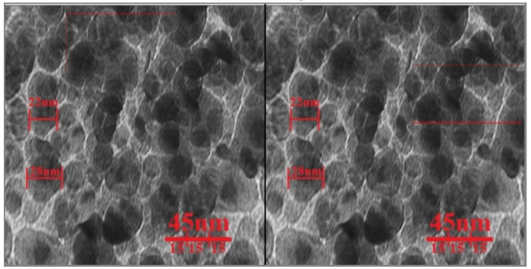

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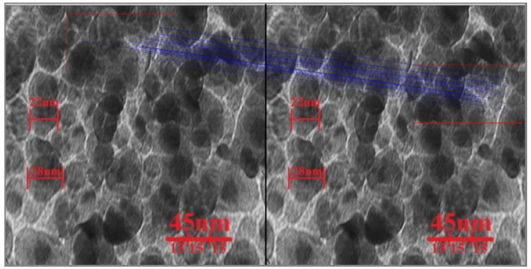

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Page #9

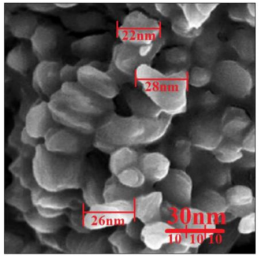

Figure 4. FE-SEM image of copper nanoparticles.

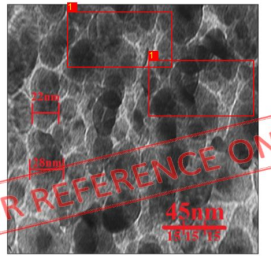

Figure 5. TEM image of copper nanoparticles.

alcohols and phenols); (II) 1623 cm^{-1} (C-O group of carboxylic acid group); (III) 1383 cm^{-1} (C=O stretching of carboxylic acid group); (IV) 1038 cm^{-1} (C-OH vibrations of the protein/polysaccharide) [4, 15, 22–26].

1. Figure: Page #9


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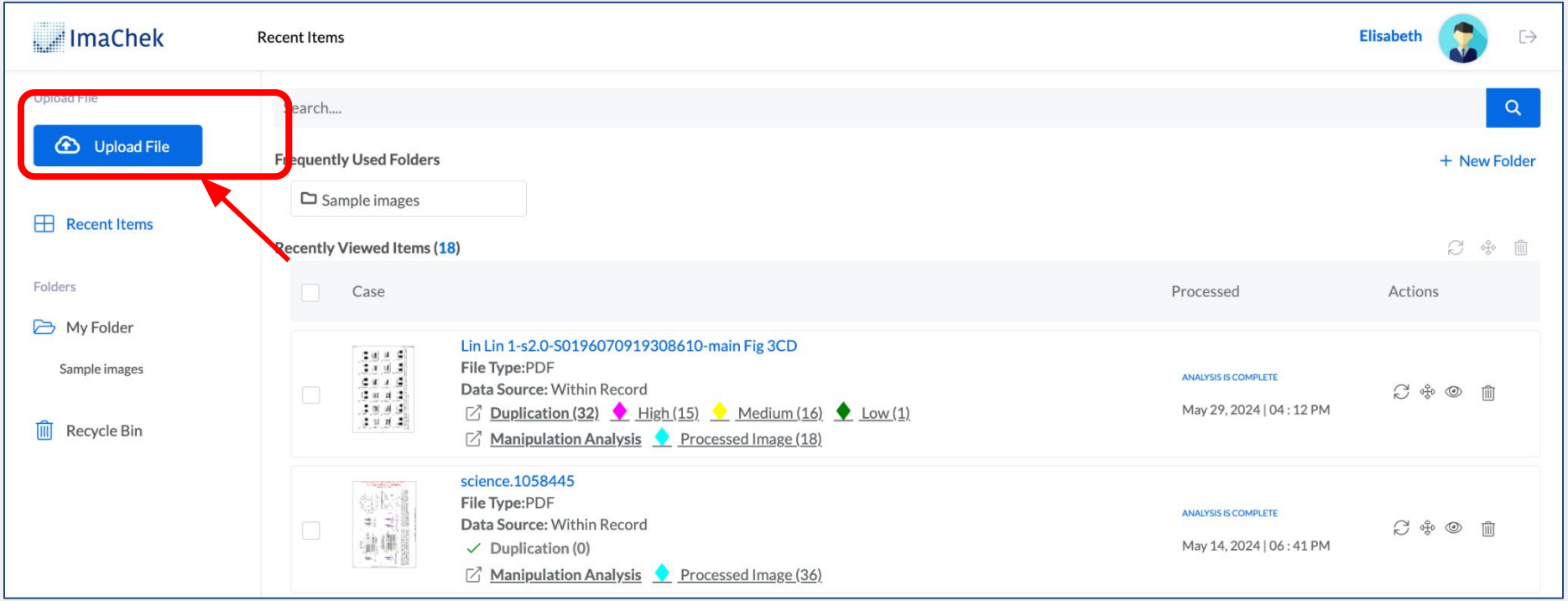

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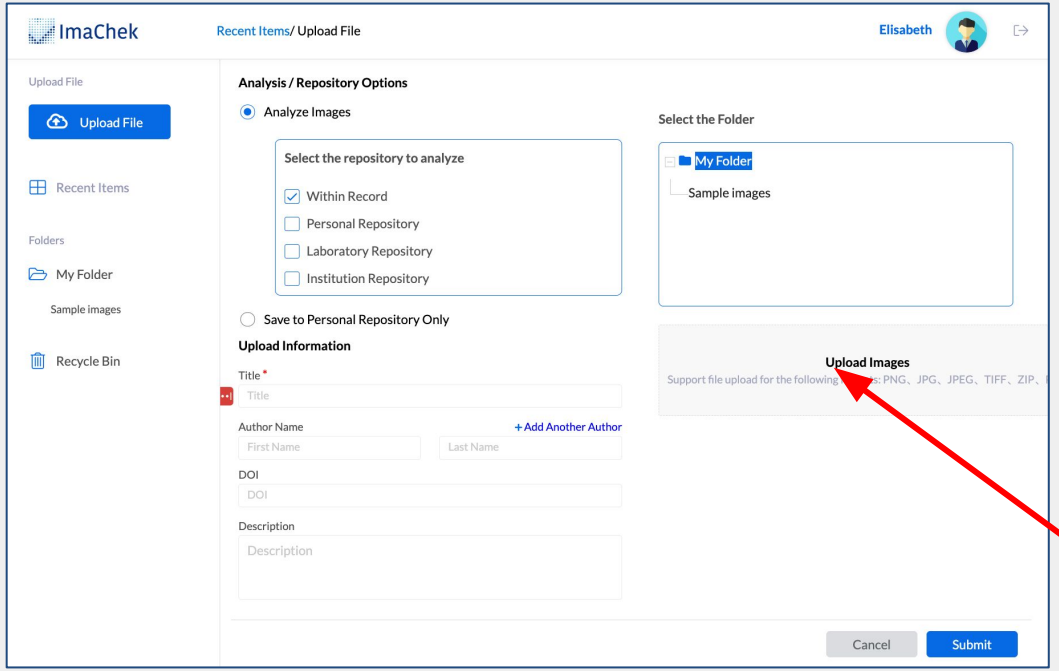

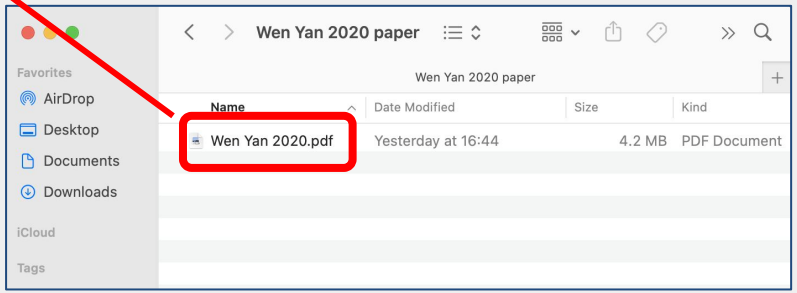

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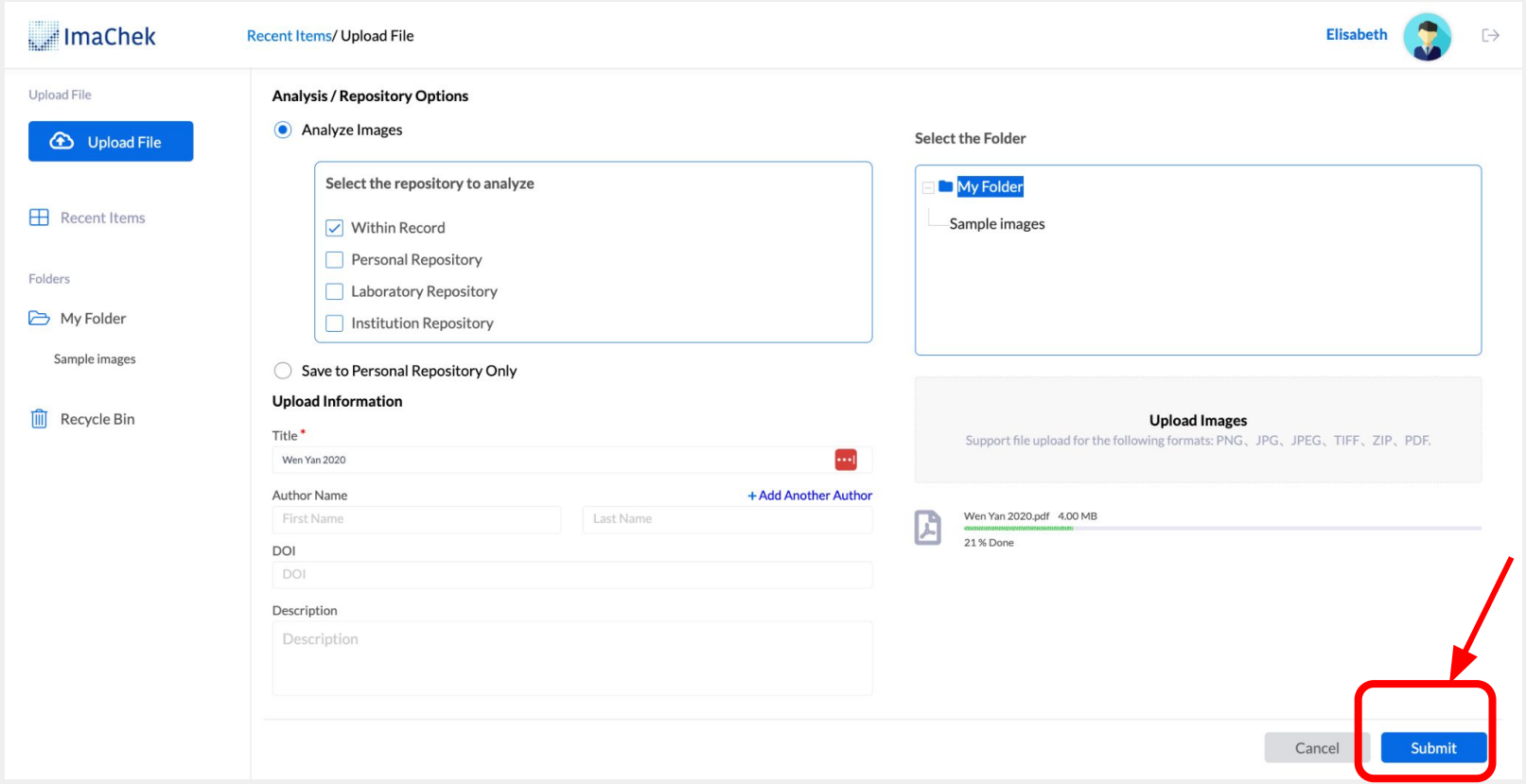

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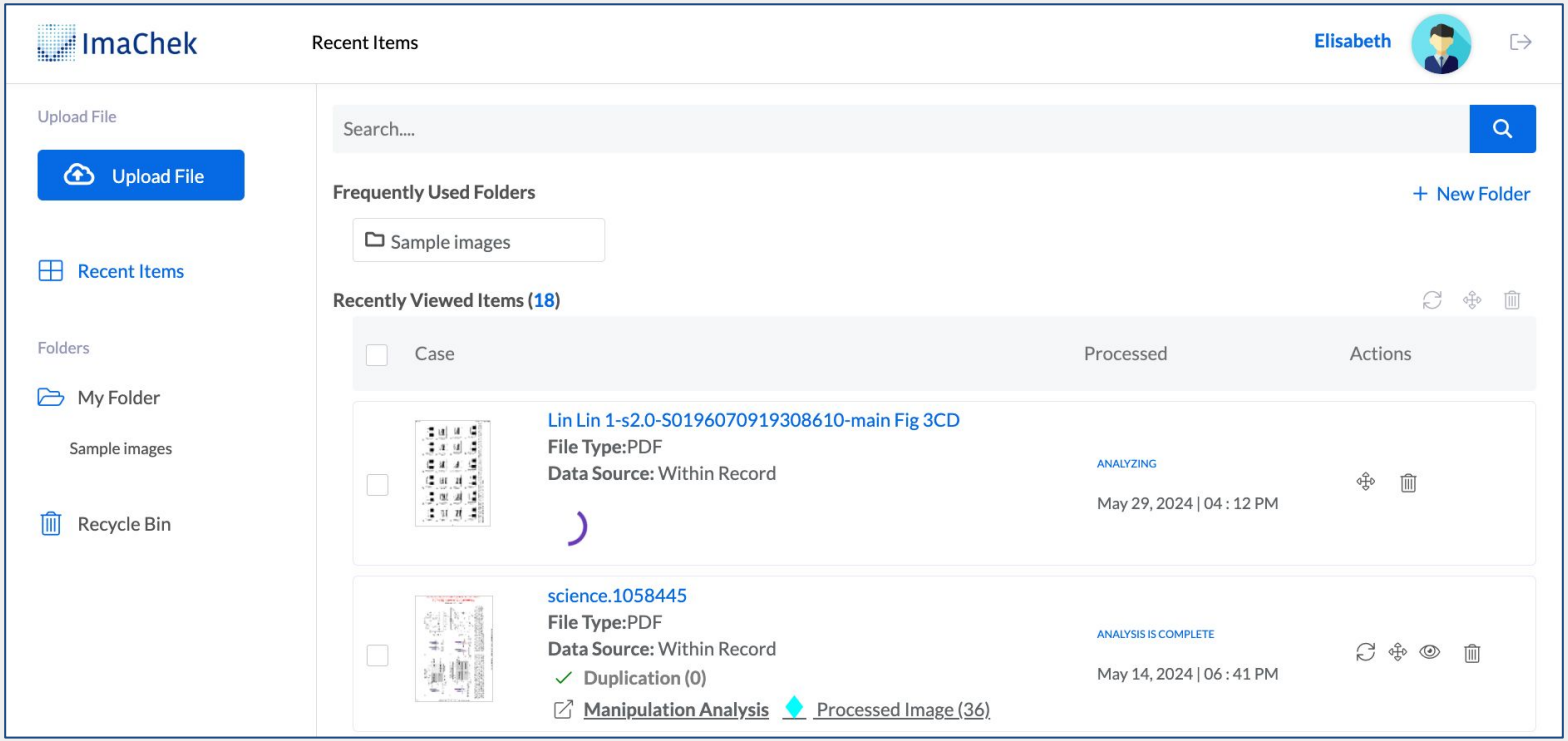

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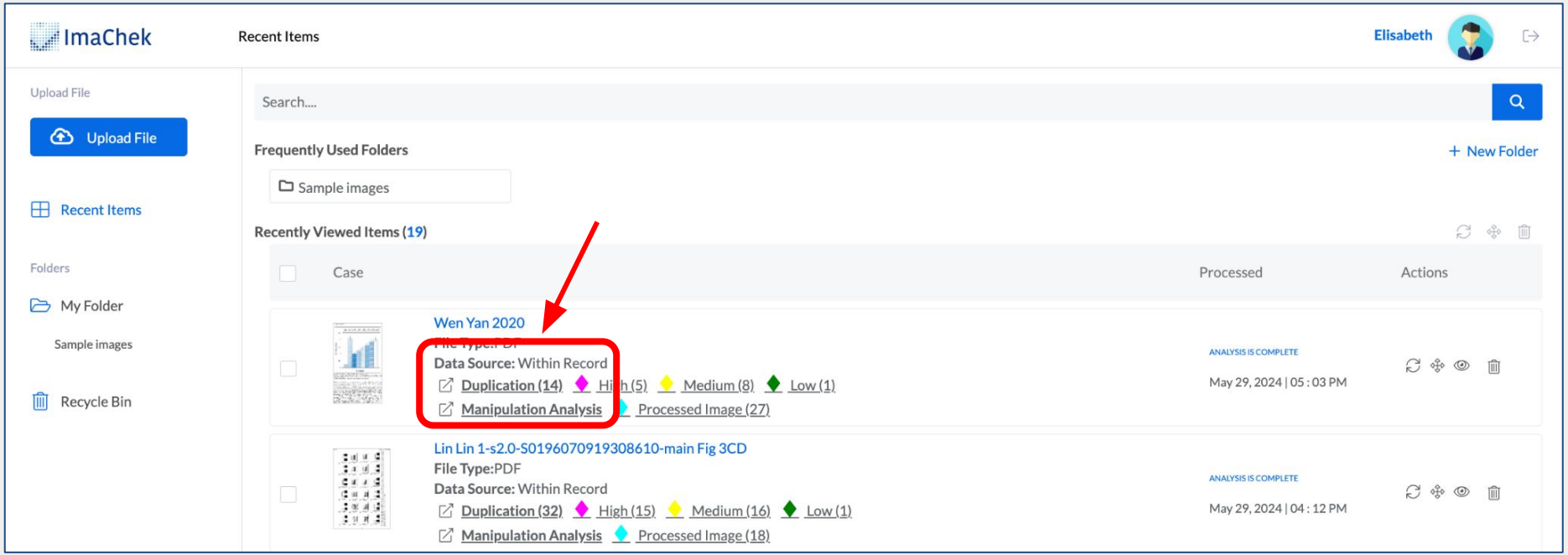

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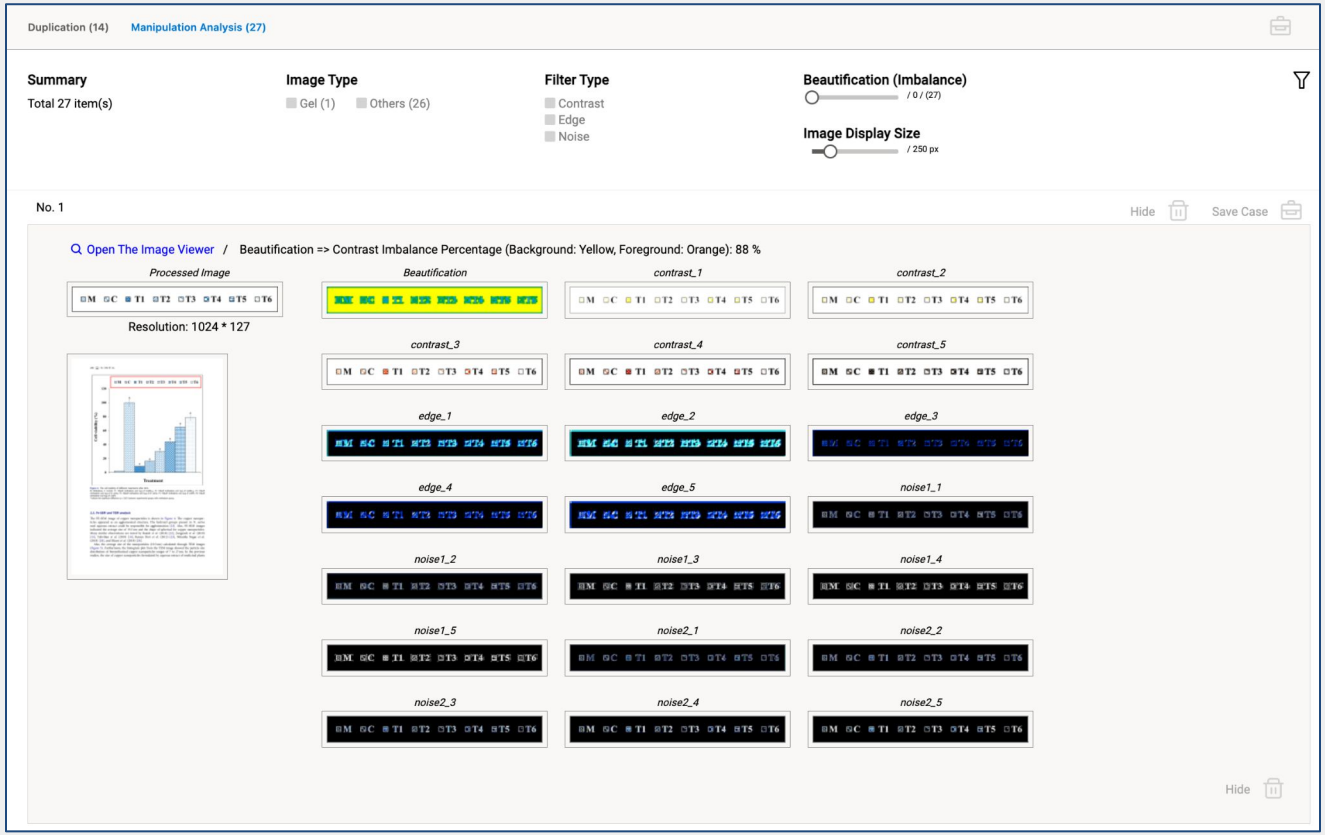

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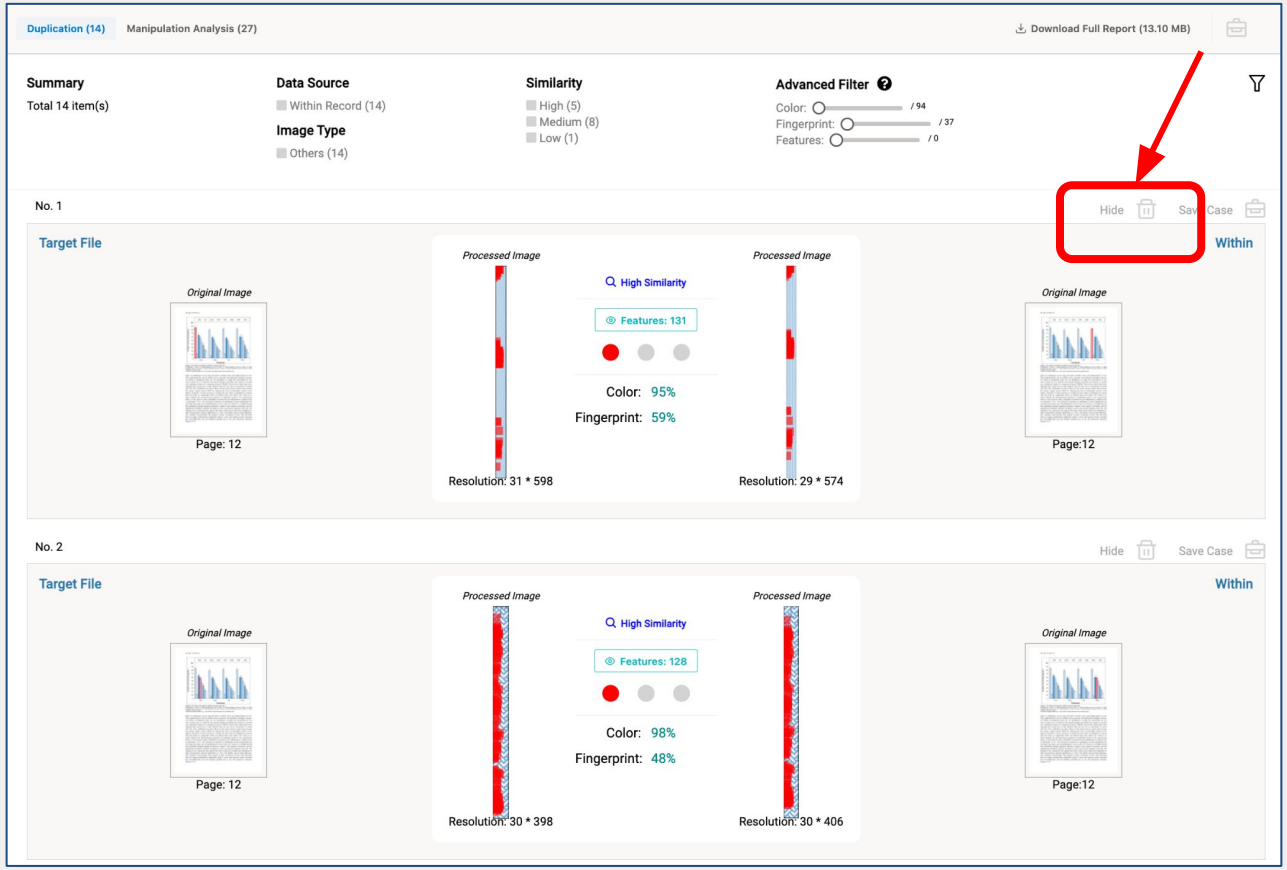

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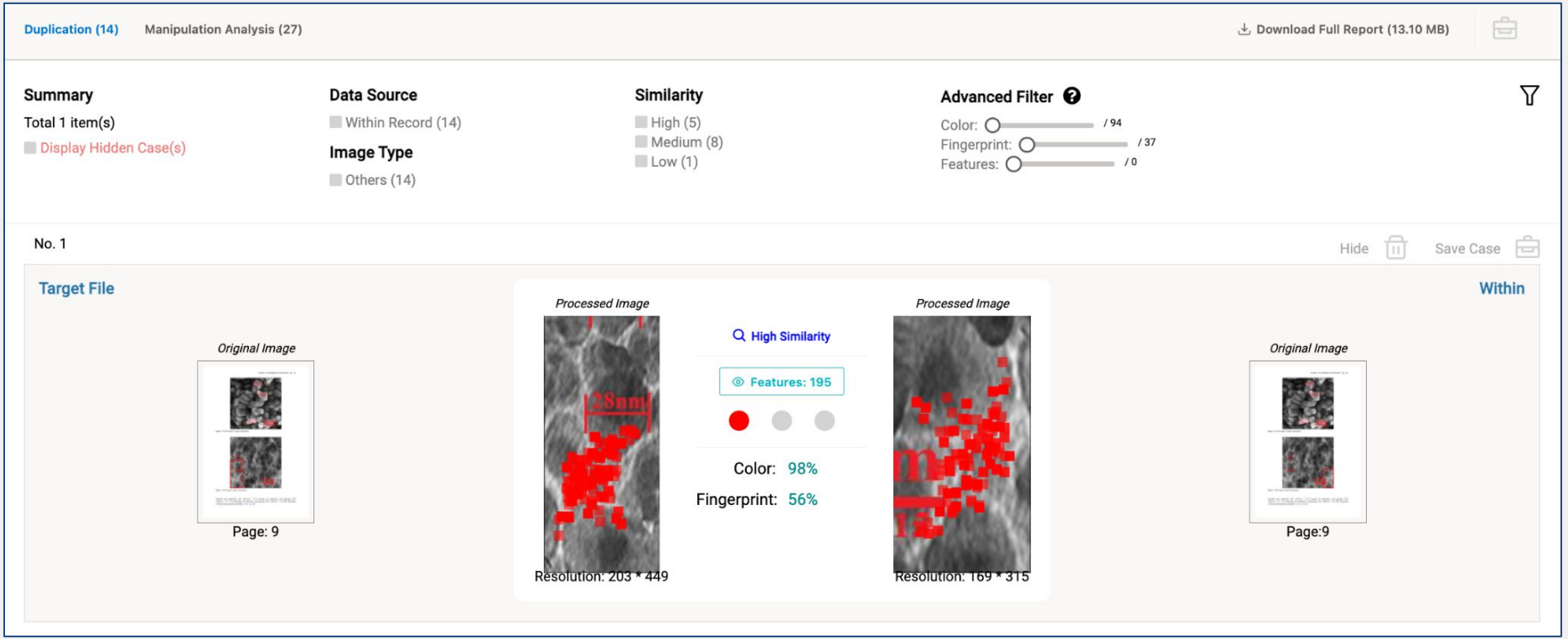

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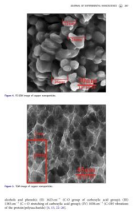

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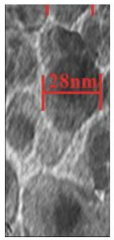

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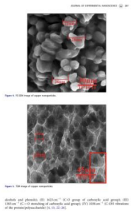

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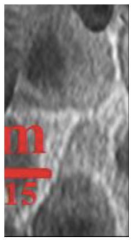

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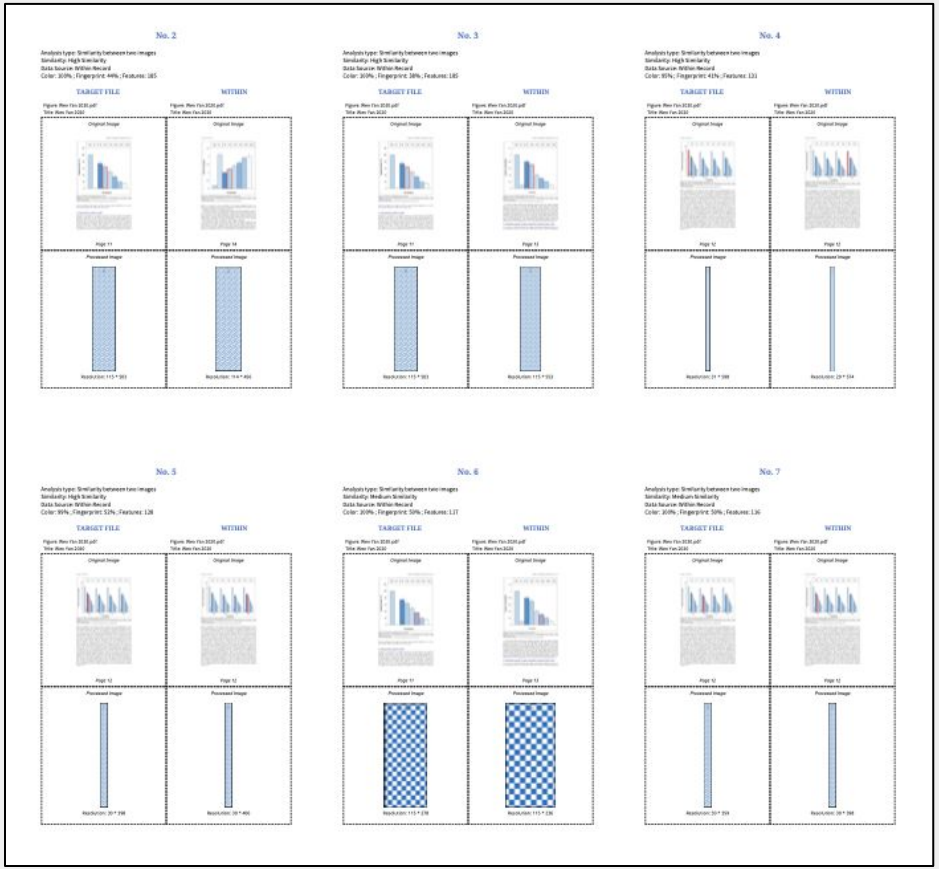


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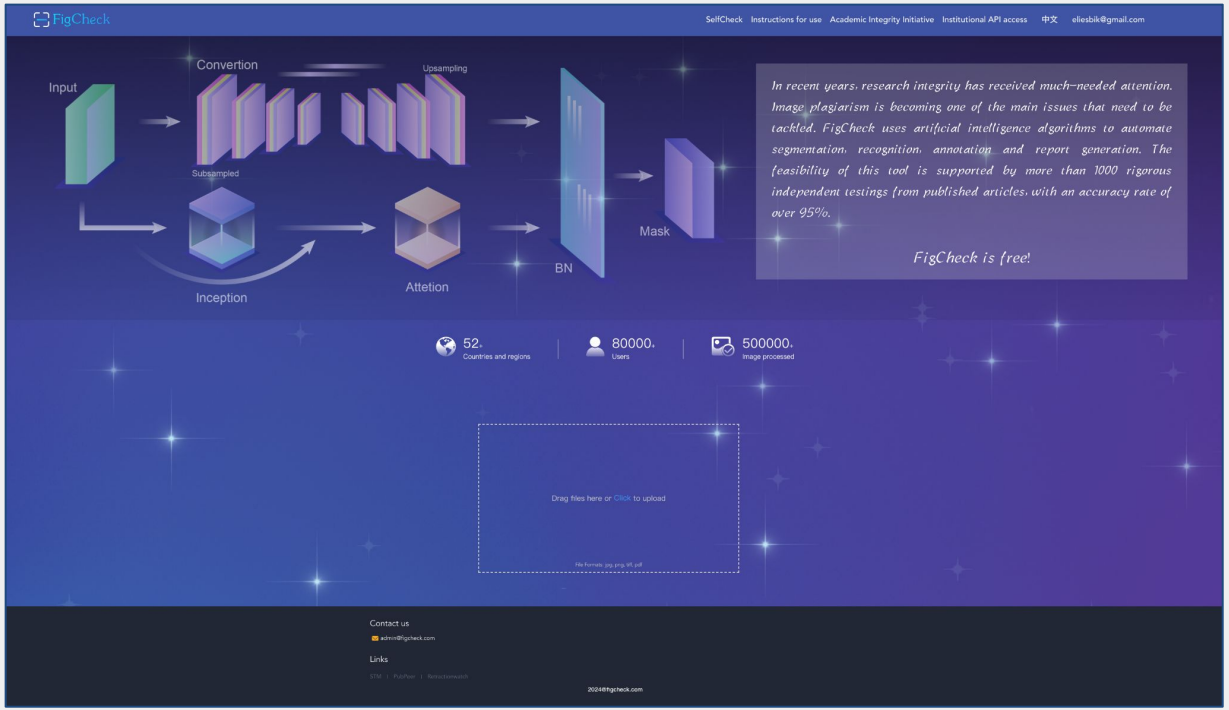

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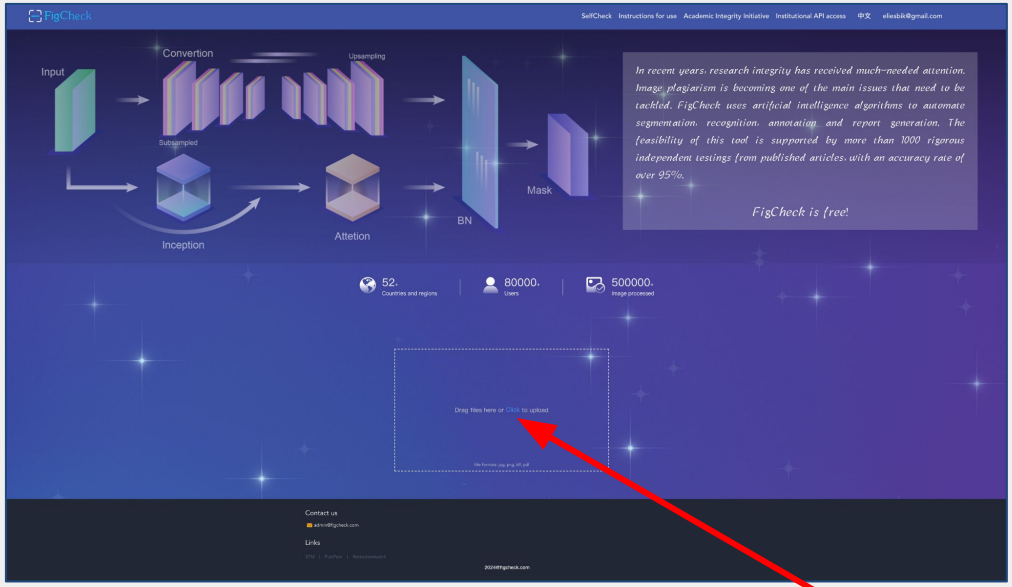

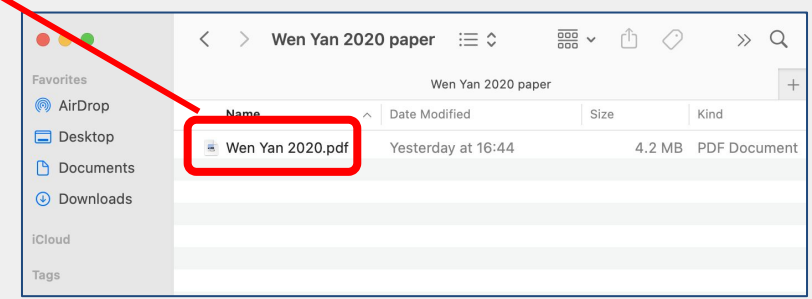

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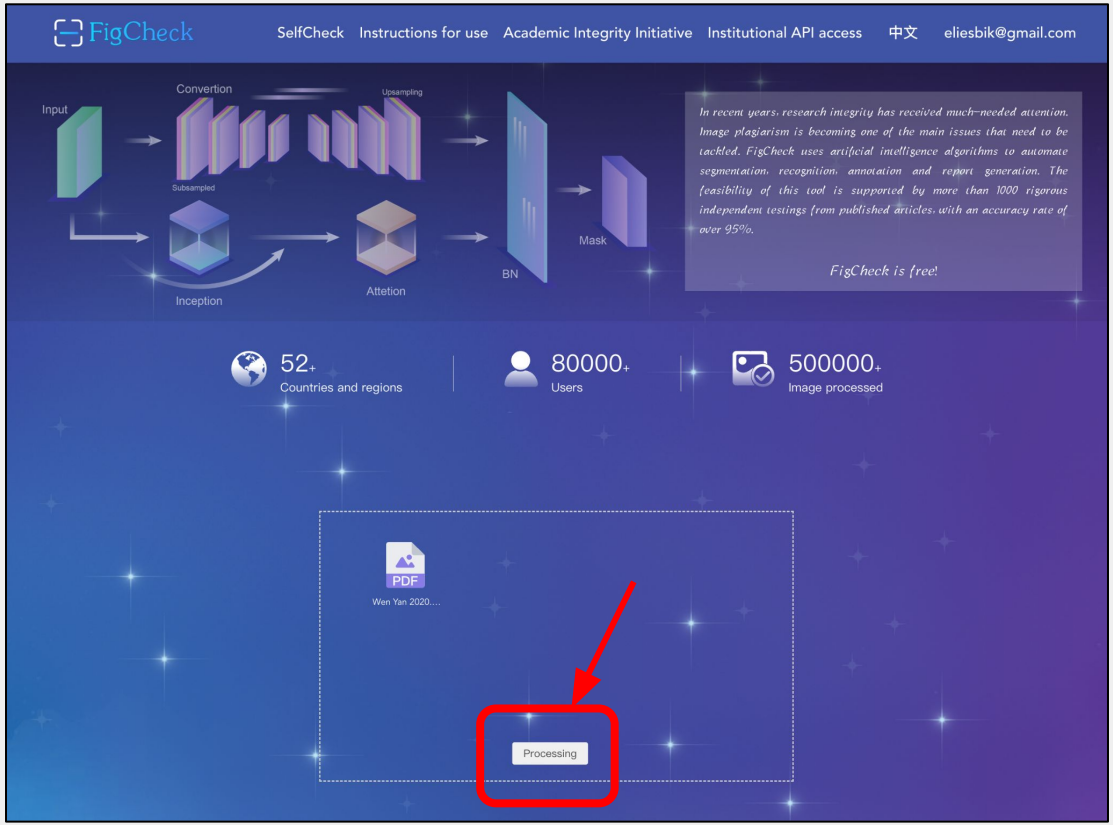

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