PIPA: Pubmed Intelligent Personalized Assistant

User Manual

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1. Introduction

- Welcome to PIPA **(PubMed Intelligent Personal Assistant)**

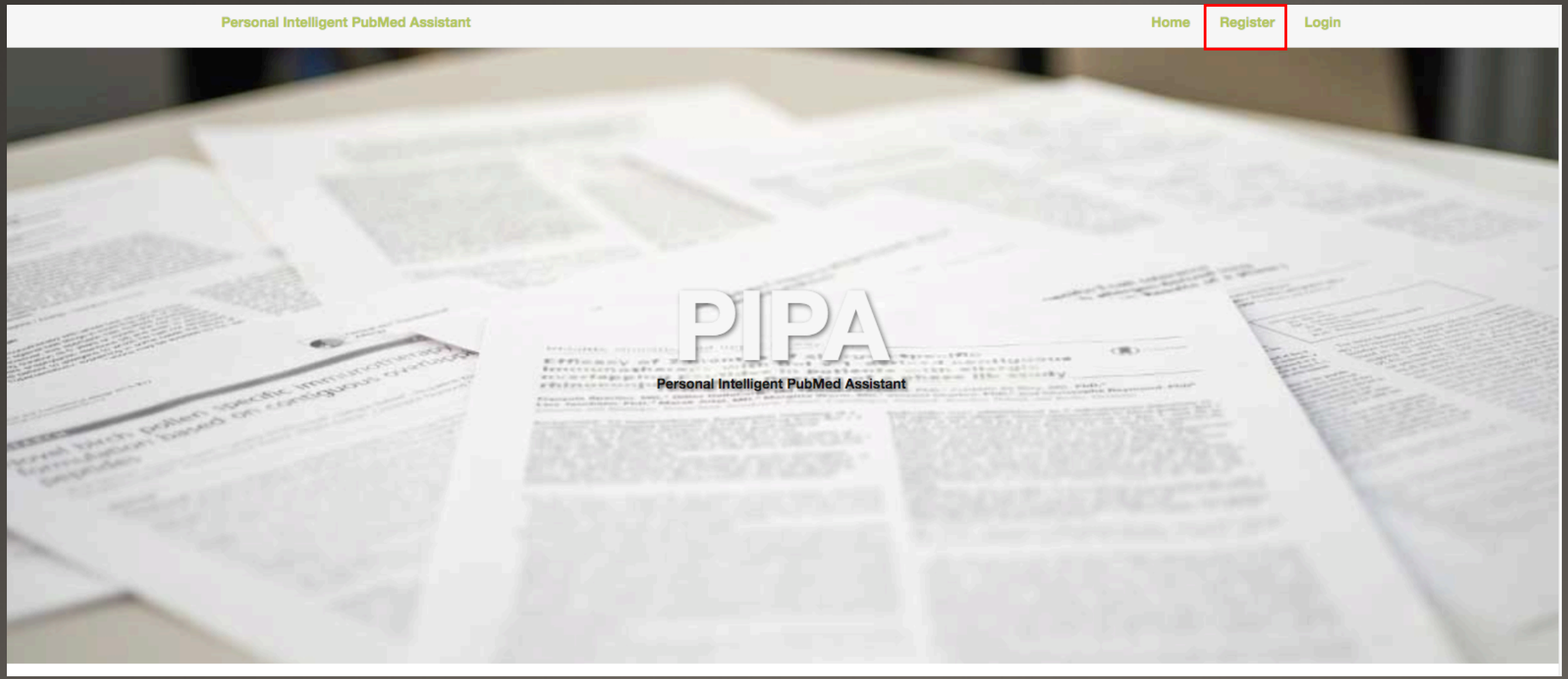
- Scientific researchers spend a lot of time to read literatures coming out in the field. Keeping up with the relevant papers is very important for designing experiments and writing grant proposals. As the largest collection of biomedical literature, Pubmed, comprises more than 26 million publications from life science journals and books. Although hundreds of millions of researchers depend heavily on Pubmed's update, its service seems to be too basic and not very user-friendly.

- Here, we built a literature recommendation system composed of a web crawler, a recommendation engine using TF-IDF and content-based filtering, a front end using Python Flask, and a MySQL database.

- This guide will introduce you to all of the features available. You will learn how to set up an account, manage your profile and retrieve the up-to-date paper recommendations from PIPA.

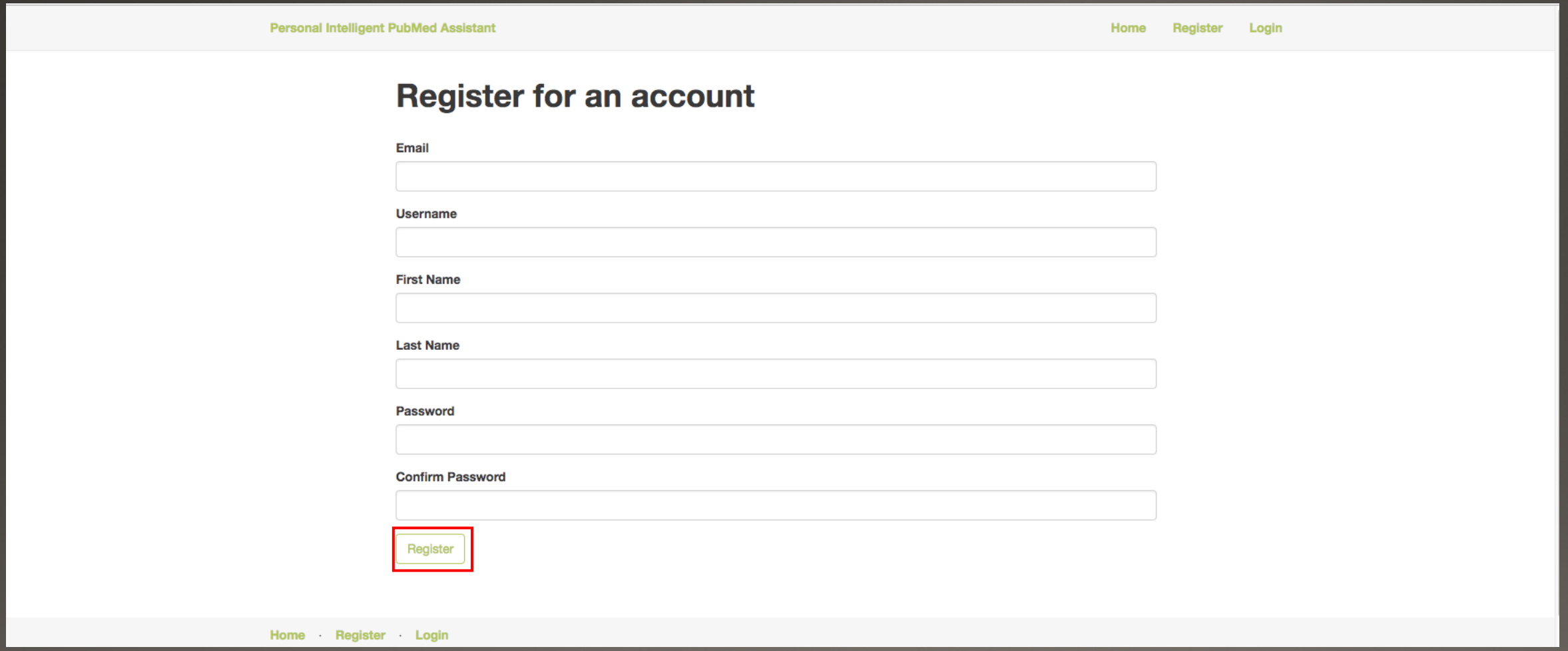
2. Table of Contents

3. Register For a new account



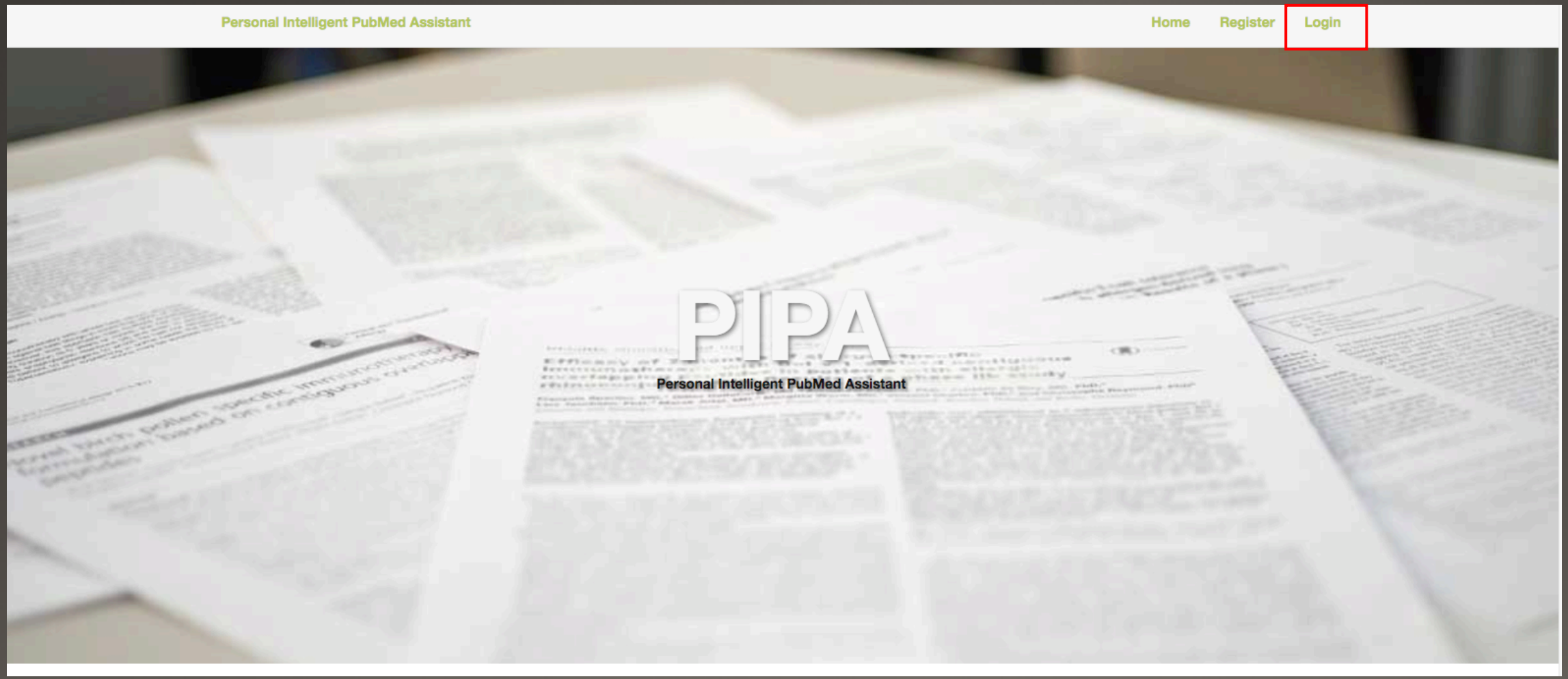
Go to http://pipa.pythonanywhere.com/ and click on Register in the navigation bar

3. Register For a new account



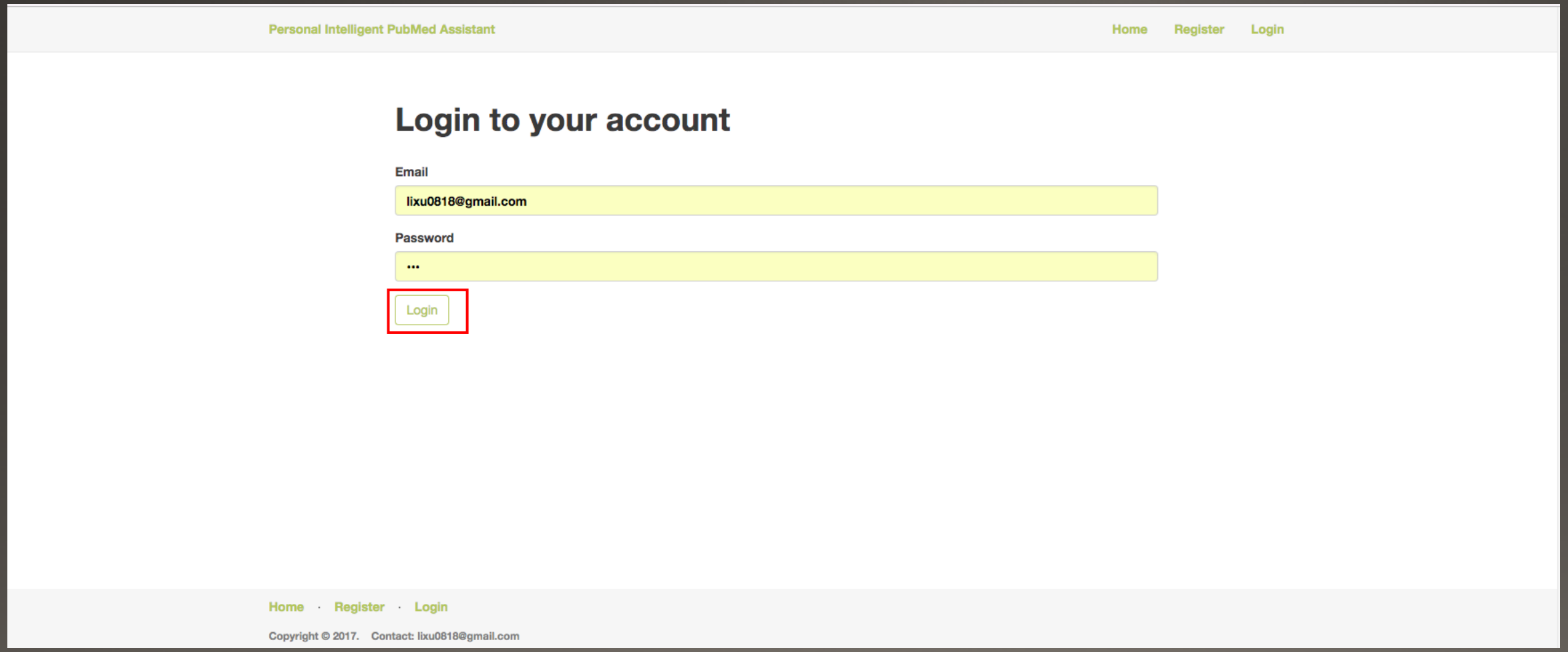
Fill out all the information required, and click on the "Register" button

4. Login



Go back to the homepage and click on the “Login” button

4. Login



Login with your email and password used for registration and press “Login”

5. Add a new article to My List

The first time you login, there will be no paper in your list. Just press "Add Articles"

5. Add a new article to My List

Just fill out the form to populate your list.
Notice that in the red box you can provide a paper's abstract or simply write your own research summary

6. Edit an article in My List

Just click on the Edit button and fill out the form again.

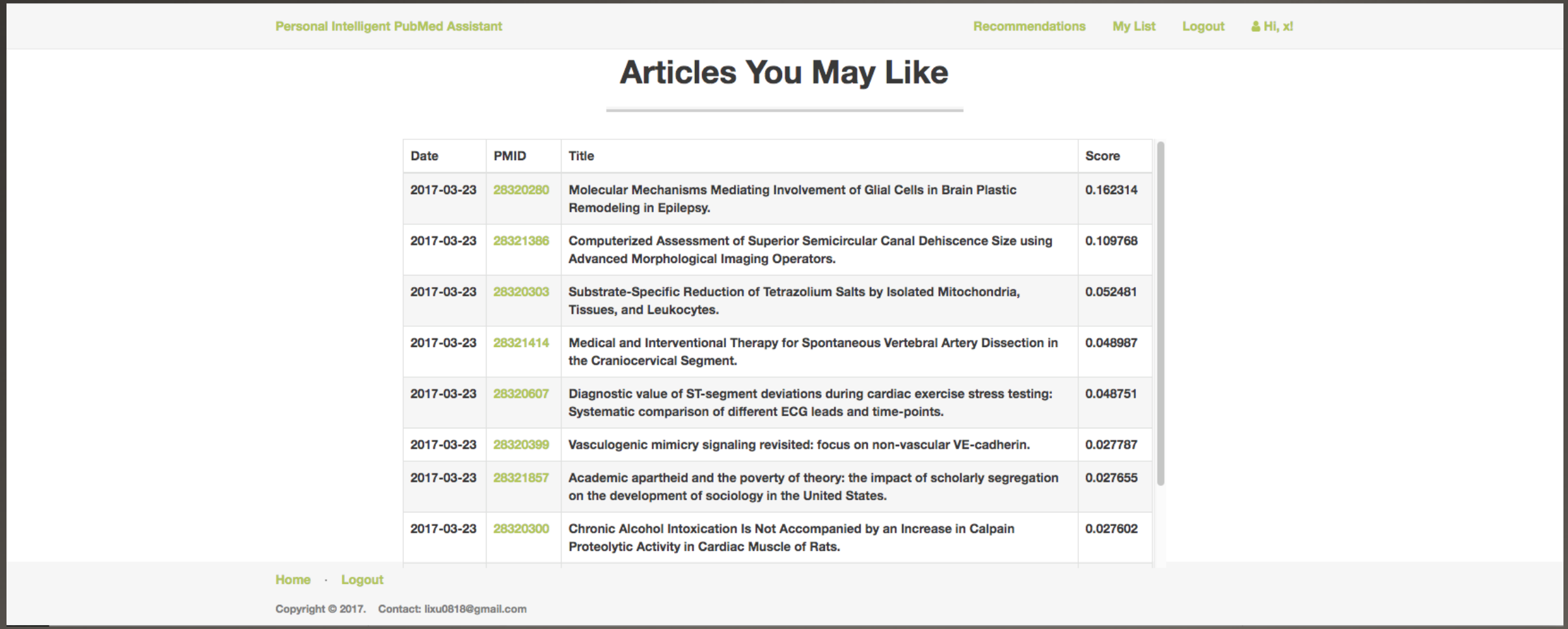
7. Delete an article from My List

Just click on the Delete button and the article will be removed from your list.

8. Get recommended articles

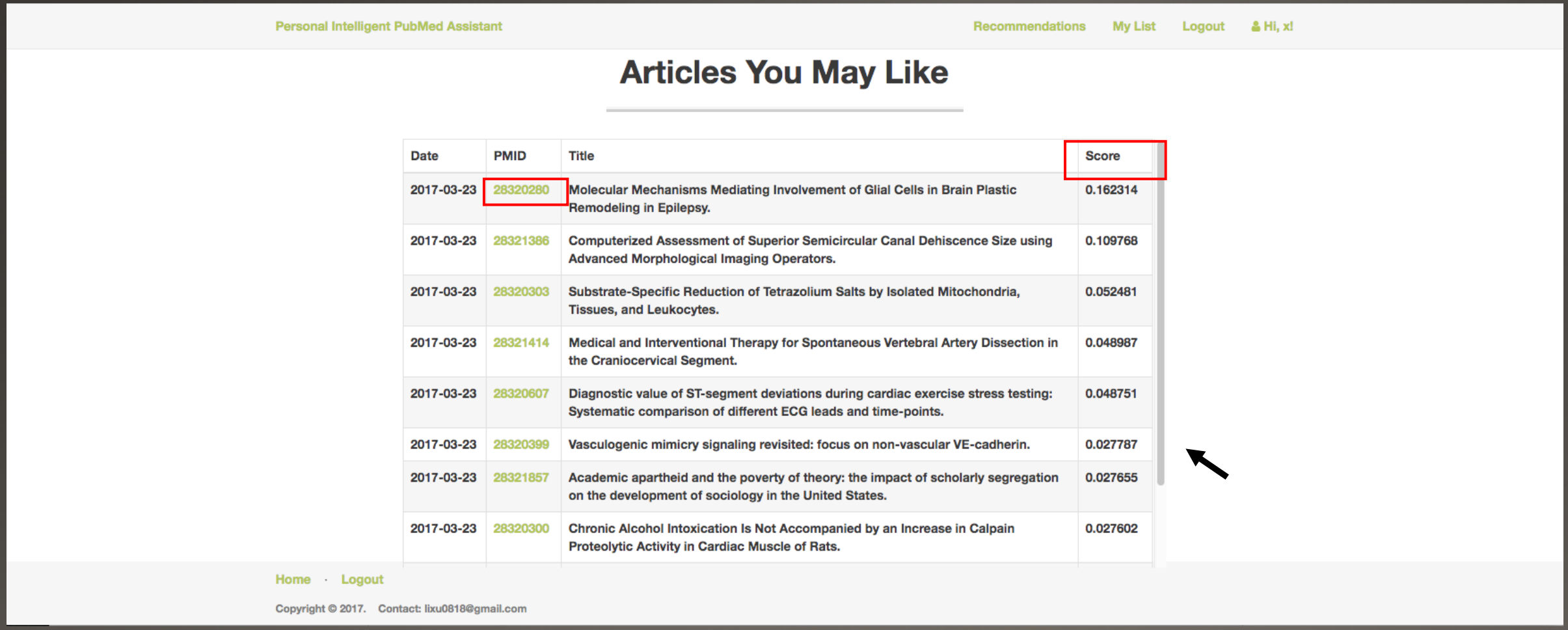
The first day you update your list, there is no recommendation,
as PIPA updates itself (crawls Pubmed and analyzes paper) once a day at **2AM EST**.

8. Get recommended articles



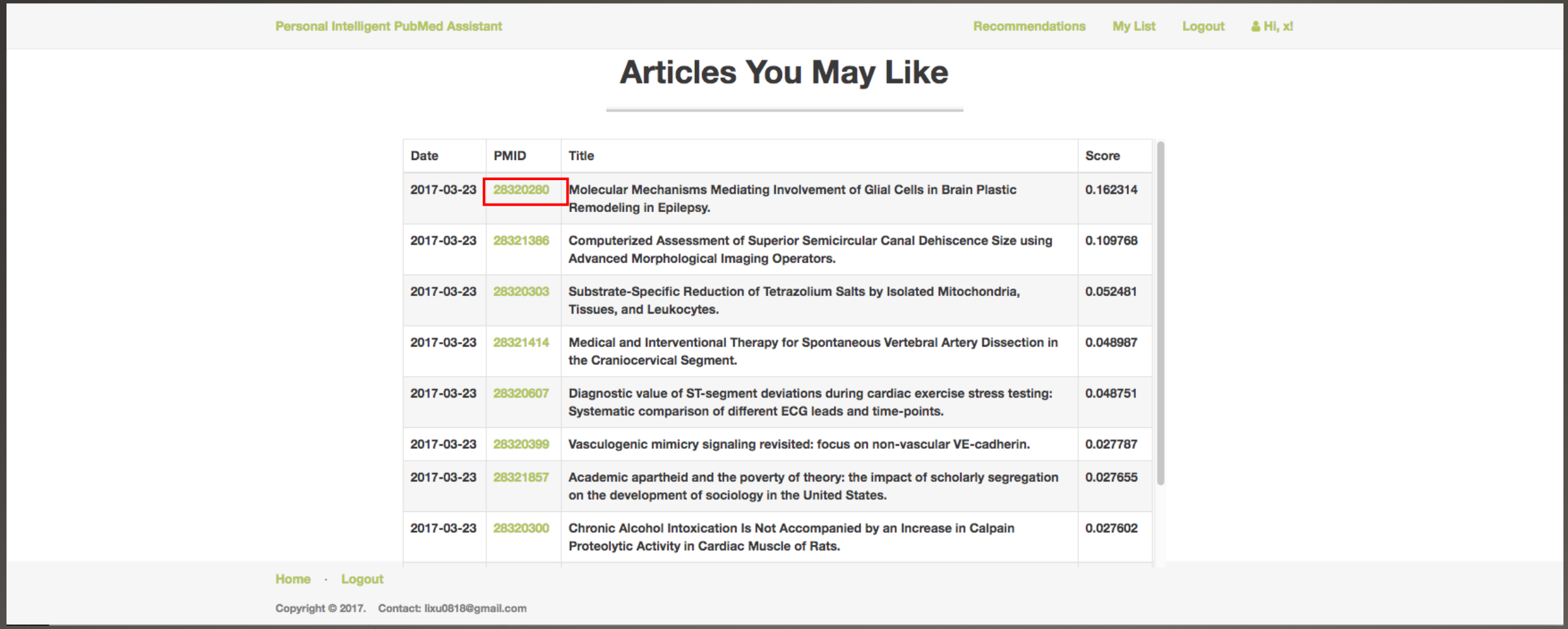
Just be patient and wait for one more day,
or take a look with our dev account: (**Username:** tester@tester.com **Password: tester**)

8. Get recommended articles



The recommendations are ranked by their similarity score, more paper can be view by scrolling down.

8. Get recommended articles



If find an article that might be interesting, follow the URL to review full text on Pubmed!