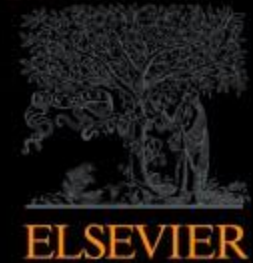
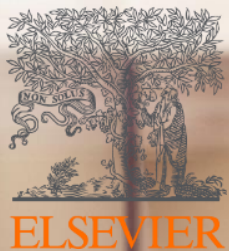


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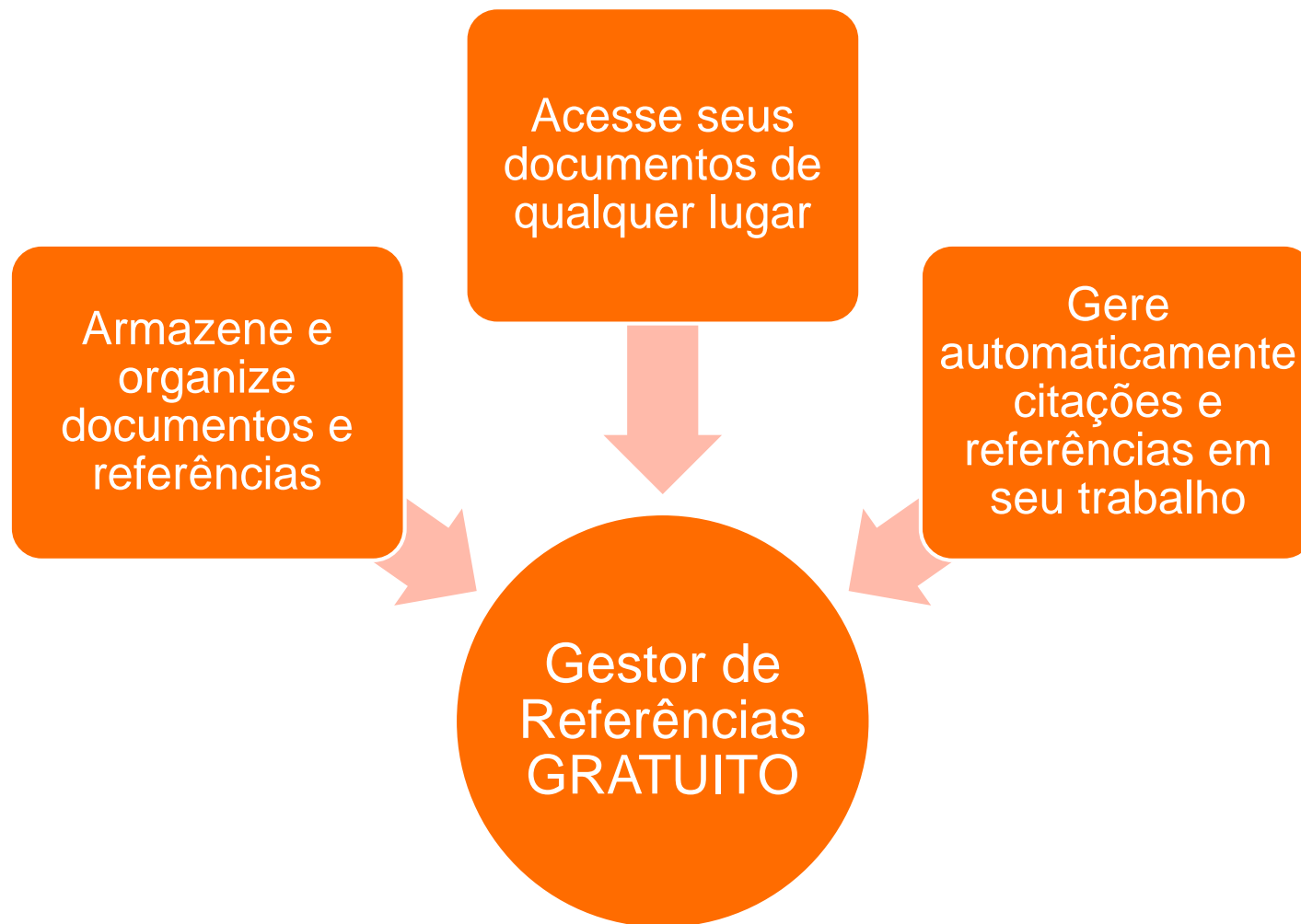


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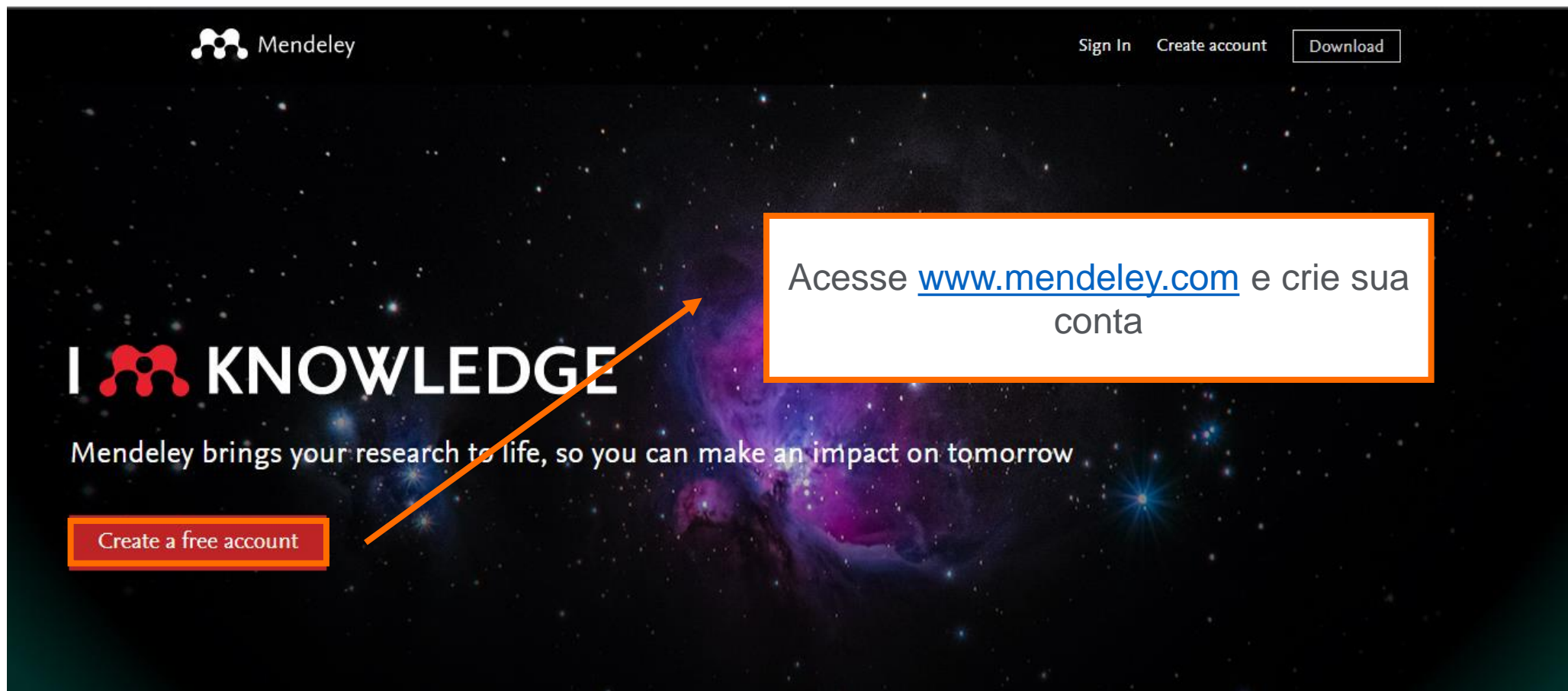
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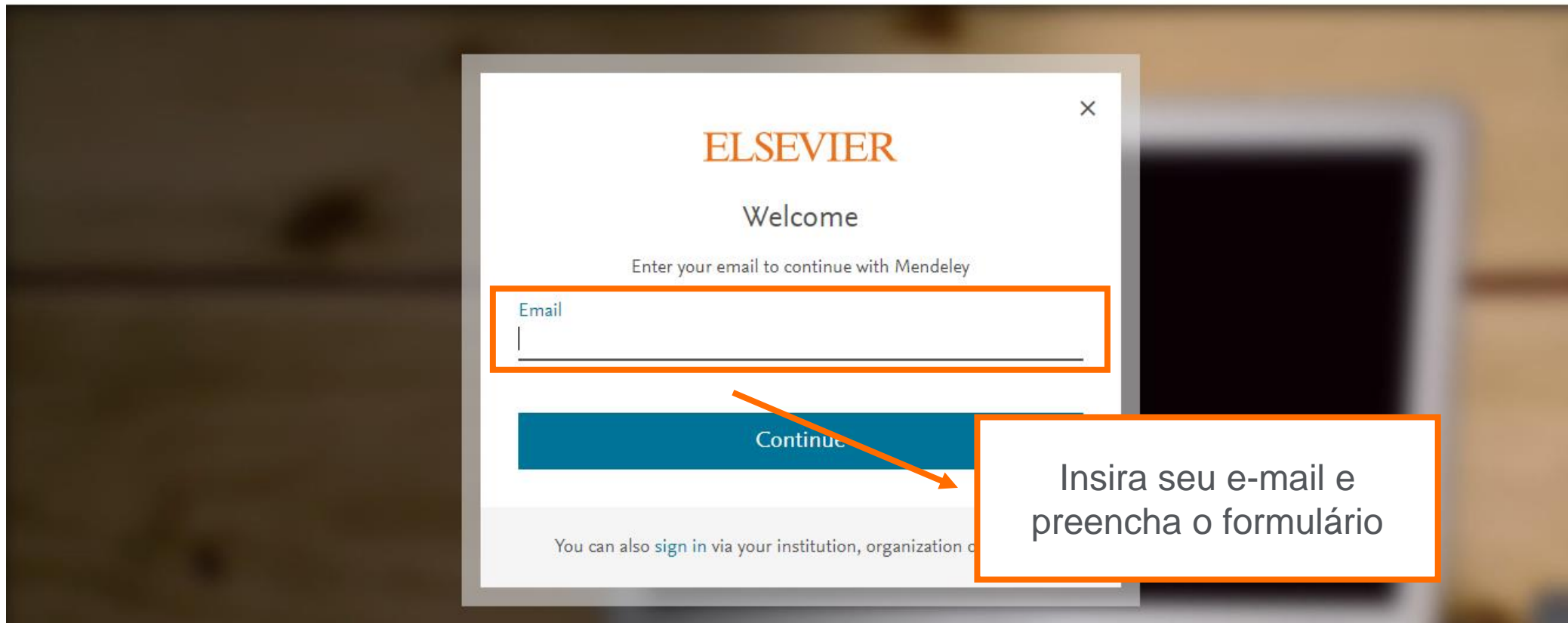
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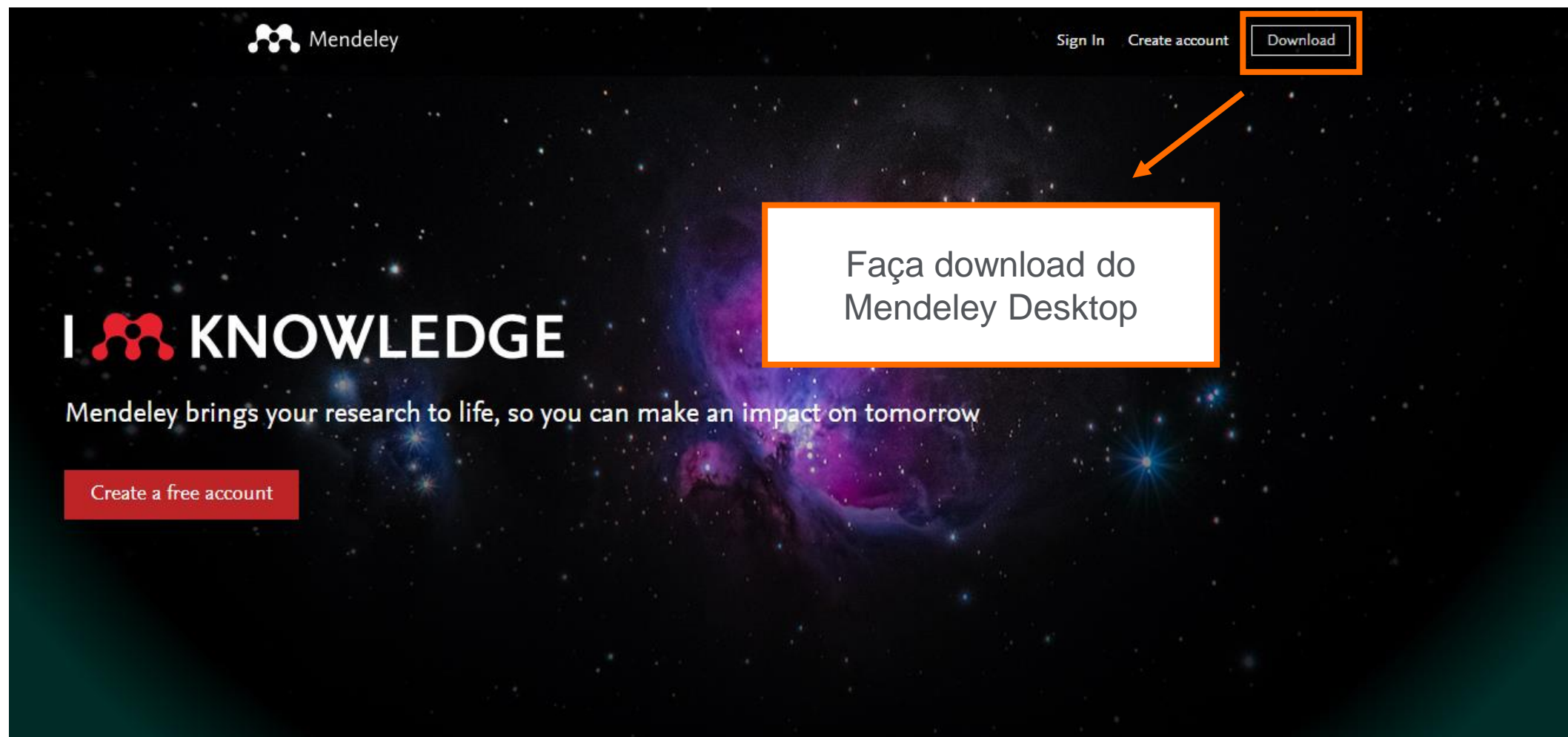
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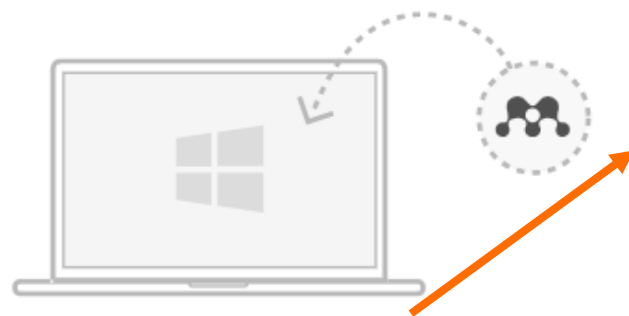
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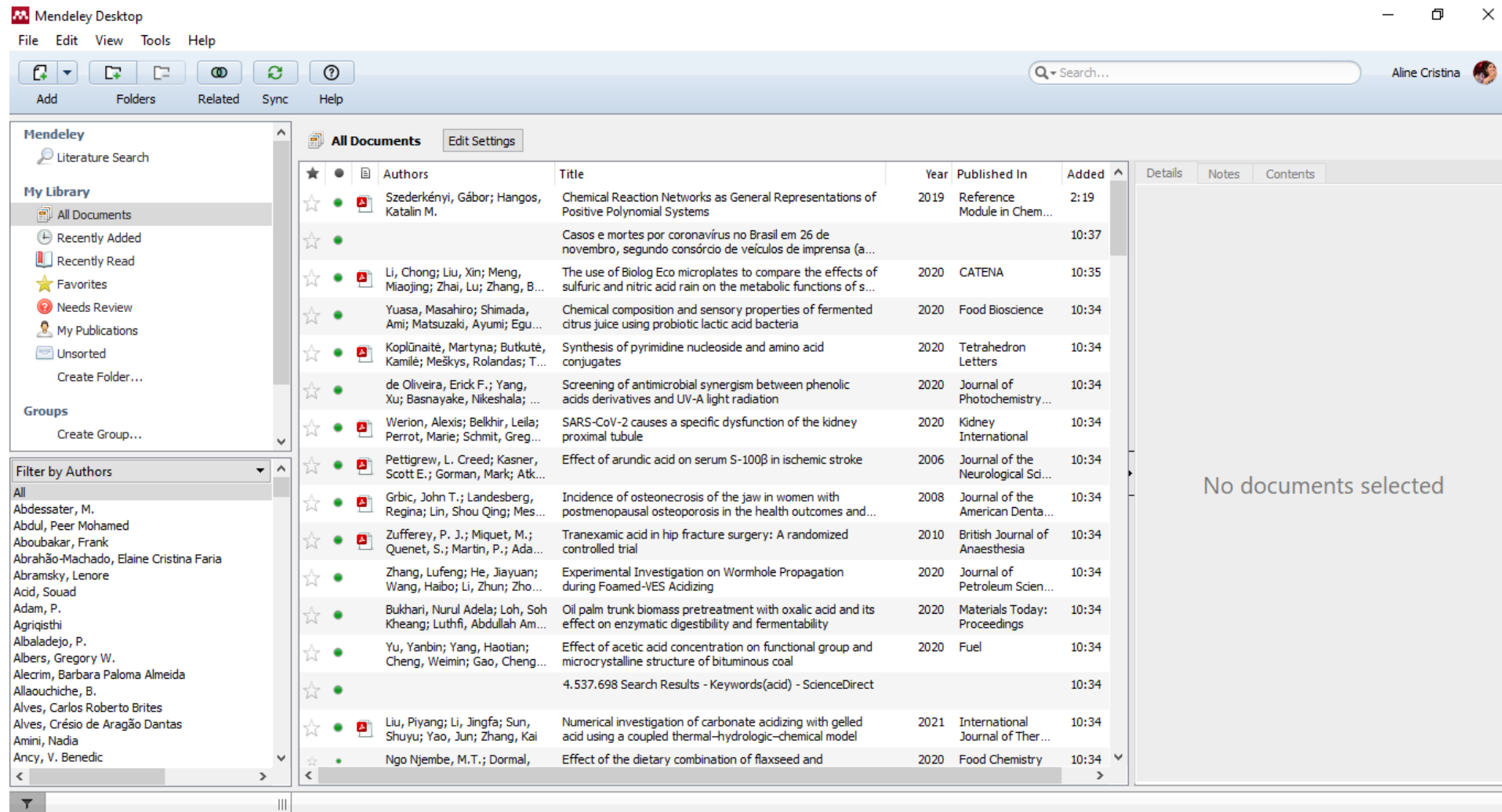
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Sua biblioteca – Mendeley Web

The screenshot shows the Mendeley Web interface. The browser address bar displays `mendeley.com/reference-manager/library/all-references`. The user is logged in as Aline Cristina Bastos Da Silva, Bachelor In Business Administration. The interface includes a sidebar with navigation options like '+ Add new', 'All References', 'Recently Added', 'Recently Read', 'Favorites', 'My Publications', and 'Trash'. The main area shows a table of references with columns for 'AUTHORS', 'YEAR', 'TITLE', 'SOURCE', 'ADDED', and 'FILE'. A text box is overlaid on the table with the text: 'Mendeley Web – Importe documentos do seu computador, crie pastas, grupos, organize e leia seus documentos'.

| <input type="checkbox"/> | AUTHORS | YEAR | TITLE | SOURCE | ADDED | FILE |
|-------------------------------------|--|------|--|-----------------------|-------|------|
| <input checked="" type="checkbox"/> | Szederkényi G, Hangos K | 2019 | Chemical Reaction Networks as General Representation... | Reference Module ... | 14:19 | |
| <input checked="" type="checkbox"/> | Yuasa M, Shimada A, Matsuzaki A, E... | 2020 | Chemical composition and sensory properties of ferment... | Food Bioscience | 10:34 | |
| <input checked="" type="checkbox"/> | Koplūnaitė M, Butkutė K, Meškys R, ... | 2020 | Synthesis of pyrimidine nucleoside and amino acid conju... | Tetrahedron Letters | 10:34 | |
| <input checked="" type="checkbox"/> | de Oliveira E, Yang X, Basnayake N, ... | 2020 | Screening of antimicrobial synergism between phenolic a... | Journal of Photoch... | 10:34 | |
| <input checked="" type="checkbox"/> | Werion A, Belkhir L, Perrot M, Schmit... | 2020 | SARS-CoV-2 causes a specific dysfunction of the kidney... | Kidney International | 10:34 | |

Sua biblioteca – Mendeley Desktop



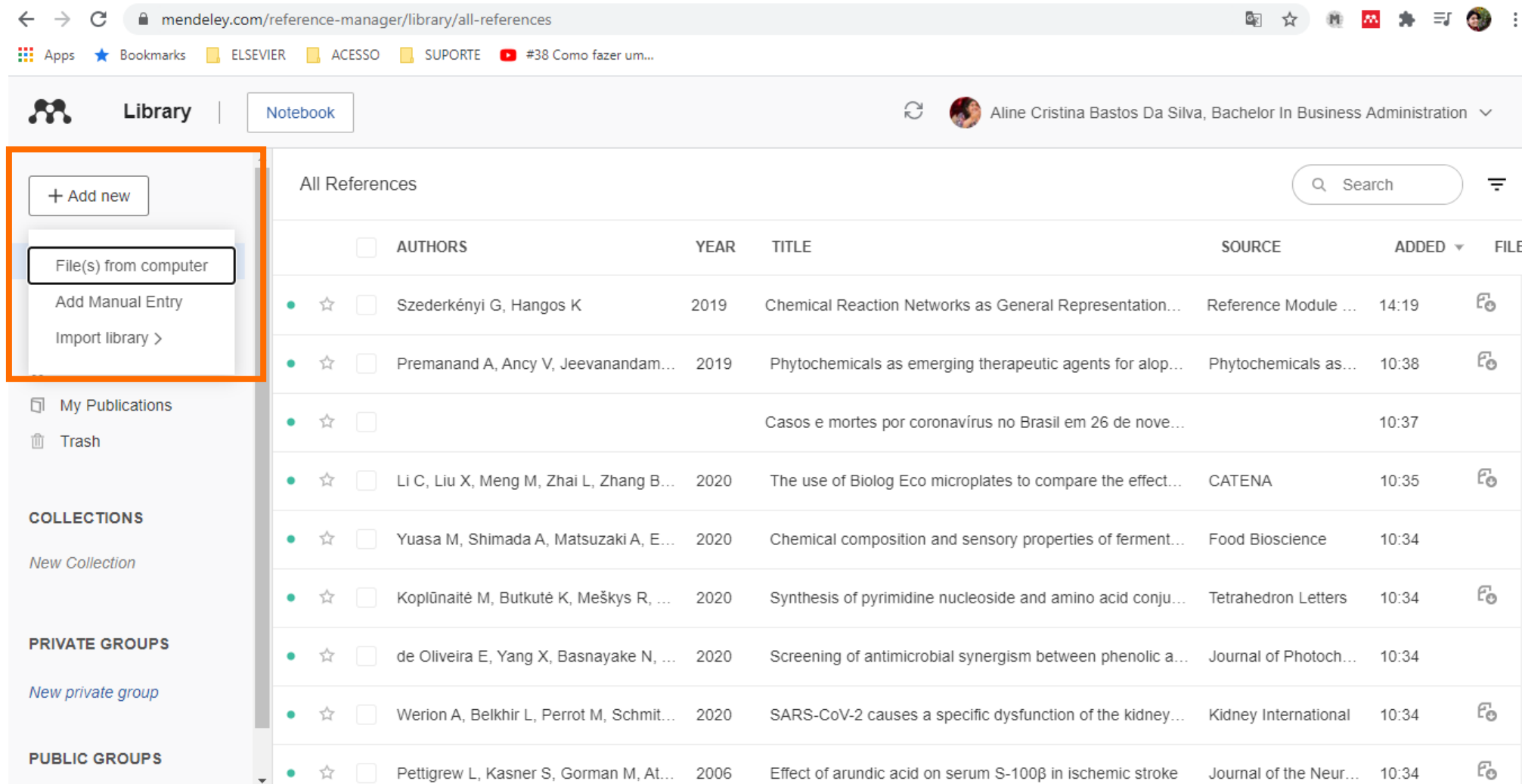
The screenshot displays the Mendeley Desktop application window. The title bar reads "Mendeley Desktop" and includes standard window controls. The menu bar contains "File", "Edit", "View", "Tools", and "Help". The toolbar features icons for "Add", "Folders", "Related", "Sync", and "Help", along with a search bar and the user name "Aline Cristina".

The main interface is divided into several sections:

- Left Panel:** Contains "Mendeley Literature Search", "My Library" (with sub-items like "All Documents", "Recently Added", "Recently Read", "Favorites", "Needs Review", "My Publications", "Unsorted", "Create Folder..."), and "Groups" (with "Create Group..."). Below this is a "Filter by Authors" dropdown menu showing a list of author names.
- Center Panel:** Displays a table of documents under the "All Documents" tab. The table has columns for "Authors", "Title", "Year", "Published In", and "Added".
- Right Panel:** Shows tabs for "Details", "Notes", and "Contents". The main area contains the text "No documents selected".

| ★ | ● | 📄 | Authors | Title | Year | Published In | Added |
|---|---|---|--|--|------|------------------------------------|-------|
| ☆ | ● | 📄 | Szederkényi, Gábor; Hangos, Katalin M. | Chemical Reaction Networks as General Representations of Positive Polynomial Systems | 2019 | Reference Module in Chem... | 2:19 |
| ☆ | ● | | | Casos e mortes por coronavírus no Brasil em 26 de novembro, segundo consórcio de veículos de imprensa (a... | | | 10:37 |
| ☆ | ● | 📄 | Li, Chong; Liu, Xin; Meng, Miaojing; Zhai, Lu; Zhang, B... | The use of Biolog Eco microplates to compare the effects of sulfuric and nitric acid rain on the metabolic functions of s... | 2020 | CATENA | 10:35 |
| ☆ | ● | 📄 | Yuasa, Masahiro; Shimada, Ami; Matsuzaki, Ayumi; Egu... | Chemical composition and sensory properties of fermented citrus juice using probiotic lactic acid bacteria | 2020 | Food Bioscience | 10:34 |
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| ☆ | ● | 📄 | Bukhari, Nurul Adela; Loh, Soh Kheang; Luthfi, Abdullah Am... | Oil palm trunk biomass pretreatment with oxalic acid and its effect on enzymatic digestibility and fermentability | 2020 | Materials Today: Proceedings | 10:34 |
| ☆ | ● | 📄 | Yu, Yanbin; Yang, Haotian; Cheng, Weimin; Gao, Cheng... | Effect of acetic acid concentration on functional group and microcrystalline structure of bituminous coal | 2020 | Fuel | 10:34 |
| ☆ | ● | | | 4.537.698 Search Results - Keywords(acid) - ScienceDirect | | | 10:34 |
| ☆ | ● | 📄 | Liu, Piyang; Li, Jingfa; Sun, Shuyu; Yao, Jun; Zhang, Kai | Numerical investigation of carbonate acidizing with gelled acid using a coupled thermal-hydrologic-chemical model | 2021 | International Journal of Ther... | 10:34 |
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Comece a alimentar sua biblioteca na versão Web



The screenshot shows the Mendeley Web interface. The browser address bar displays 'mendeley.com/reference-manager/library/all-references'. The user is logged in as 'Aline Cristina Bastos Da Silva, Bachelor In Business Administration'. The main content area is titled 'All References' and contains a table of references. A search bar is located at the top right of the table. On the left side, there is a sidebar with navigation options: 'My Publications', 'Trash', 'COLLECTIONS', 'PRIVATE GROUPS', and 'PUBLIC GROUPS'. A red box highlights the '+ Add new' button, which has opened a dropdown menu with the following options: 'File(s) from computer', 'Add Manual Entry', and 'Import library >'. The table of references has the following columns: 'AUTHORS', 'YEAR', 'TITLE', 'SOURCE', 'ADDED', and 'FILE'. The first two rows of the table are as follows:

| <input type="checkbox"/> | AUTHORS | YEAR | TITLE | SOURCE | ADDED | FILE |
|-------------------------------------|-------------------------------------|------|---|----------------------|-------|------|
| <input checked="" type="checkbox"/> | Szederkényi G, Hangos K | 2019 | Chemical Reaction Networks as General Representation... | Reference Module ... | 14:19 | |
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The screenshot displays the Mendeley Desktop application window. The 'File' menu is open, showing options such as 'Add Files...', 'Import...', 'Export...', 'Delete Documents', and 'Synchronize Library'. A text box with an orange border and arrow points to the menu, containing the text 'Armazene e organize seus PDF's'. The main window shows a list of documents with columns for 'Year', 'Published In', and 'Added'. The right sidebar displays 'No documents selected'.

| Year | Published In | Added |
|------|---|-------|
| 2019 | Reference Module in Chem... | 2:19 |
| | Casos e mortes por coronavírus no Brasil em 26 de novembro, segundo consórcio de veículos de imprensa (a... | 10:37 |
| 2020 | CATENA | 10:35 |
| 2020 | Food Bioscience | 10:34 |
| 2020 | Tetrahedron Letters | 10:34 |
| 2020 | Journal of Photochemistry... | 10:34 |
| 2020 | Kidney International | 10:34 |
| 2006 | Journal of the Neurological Sci... | 10:34 |
| 2008 | Journal of the American Denta... | 10:34 |
| 2010 | British Journal of Anaesthesia | 10:34 |
| 2020 | Journal of Petroleum Scien... | 10:34 |
| 2020 | Materials Today: Proceedings | 10:34 |
| 2020 | Fuel | 10:34 |
| | 4.537.698 Search Results - Keywords(acid) - ScienceDirect | 10:34 |
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International Journal of Thermal Sciences 160 (2021) 106700

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Numerical investigation of carbonate acidizing with gelled acid using a coupled thermal–hydrologic–chemical model

Piyang Liu^{a,b}, Jingfa Li^c, Shuyu Sun^{d,*}, Jun Yao^{b,*}, Kai Zhang^b

^a Qingdao Key Laboratory for Geomechanics and Offshore Underground Engineering, School of Science, Qingdao University of Technology, Qingdao, 266520, China
^b School of Petroleum Engineering, China University of Petroleum (East China), Qingdao, 266580, China
^c School of Mechanical Engineering, Beijing Institute of Petrochemical Technology, Beijing, 102617, China
^d Computational Transport Phenomena Laboratory(CTPL), Division of Physical Sciences and Engineering (PSE), King Abdullah University of Science and Technology (KAUST), Thuwal 23955-6900, Kingdom of Saudi Arabia

ARTICLE INFO

Keywords:
Acidization
Gelled acid
Non-Newtonian fluid
Thermal–hydrologic–chemical model
Carbonate

ABSTRACT

In this work, an experiment-based rheological model that accounts for the influence of polymer concentration, shear-thinning behavior, and temperature variation on the in-situ viscosity of gelled acid is developed. On the basis of the rheological model, we present a thermal–hydrologic–chemical coupled model that describes the dissolution process of carbonate acidization with gelled acid. A sensitivity analysis of the dissolution dynamic regarding the temperature variation, polymer adsorption, and non-Newtonian behavior of the injected acid is carried out. The comparison of acidization curves and dissolution patterns obtained by injecting gelled acid and HCl is conducted. It is found that the optimal dissolution regime for gelled acid has a much wider

Details Notes Contents

Type: Journal Article

Numerical investigation of carbonate acidizing with gelled acid using a coupled thermal–hydrologic–chemical model

Authors: P. Liu, J. Li, S. Sun et al.

View research catalog entry for this paper

Journal: *International Journal of Thermal Sciences*

Year: 2021

Volume: 160

Issue:

Pages:

Abstract:

In this work, an experiment-based rheological model that accounts for the influence of polymer concentration, shear-thinning behavior, and temperature variation on the in-situ viscosity of gelled acid is developed. On the basis of the rheological model, we present a thermal–hydrologic–chemical coupled model that describes the dissolution process of carbonate acidization with gelled acid. A sensitivity analysis of the dissolution dynamic regarding the temperature variation, polymer adsorption, and non-Newtonian behavior of the injected acid is carried out. The comparison of acidization curves and dissolution patterns obtained by injecting gelled acid and HCl is conducted. It is found that the optimal dissolution regime for gelled acid has a much wider range than neat HCl. It is observed from the numerical simulations that

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The screenshot displays the Mendeley Desktop application window. At the top, there is a search bar with a magnifying glass icon and a cursor, highlighted by an orange box. Below the search bar, the main interface is divided into several sections. On the left, there is a sidebar with 'Mendeley Literature Search' and 'My Library' sections. The 'My Library' section includes 'All Documents', 'Recently Added', 'Recently Read', 'Favorites', 'Needs Review', and 'My Publications'. Below this, there is a 'Filter by Authors' dropdown menu, which is also highlighted by an orange box. The main area shows a list of documents with columns for 'Authors', 'Title', 'Year', 'Published In', and 'Added'. One document is selected, and its details are shown on the right, including the title 'Numerical investigation of carbonate acidizing with gelled acid using a coupled thermal-hydrologic-chemical model' and an abstract. Two orange callout boxes with arrows point to the search bar and the 'Filter by Authors' dropdown. The first callout box contains the text 'Realize buscas por documentos na biblioteca' and the second callout box contains the text 'Filtre os resultados de documentos por diferentes critérios'. The status bar at the bottom indicates '1 of 115 documents selected'.

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Document List:

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| Wang, Xu; Yan; Yang... | centration, l activity o... | 2020 | Journal of Dairy Science | 10:34 |
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Document Details:

Type: Journal Article

Numerical investigation of carbonate acidizing with gelled acid using a coupled thermal-hydrologic-chemical model

Abstract:

In this work, an experiment-based rheological model that accounts for the influence of polymer concentration, shear-thinning behavior, and temperature variation on the in-situ viscosity of gelled acid is developed. On the basis of the rheological model, we present a thermal-hydrologic-chemical coupled model that describes the dissolution process of carbonate acidization with gelled acid. A sensitivity analysis of the dissolution dynamic regarding the temperature variation, polymer adsorption, and non-Newtonian behavior of the injected acid is carried out. The comparison of acidization curves and dissolution patterns obtained by injecting gelled acid and HCl is conducted. It is found that the optimal dissolution regime for gelled acid has a much wider range than neat HCl. It is observed from the numerical simulations that reservoir temperature and rheological parameters of t...

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- Adam, P.
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| Zufferey, P. J.; Quenet, S.; Ma... | | | British Journal of Anaesthesia | 10:34 |
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| Bukhari, M. A.; Kheong, Luthfi... | | | Materials Today: Proceedings | 10:34 |
| Yu, Yanbin; Yan Cheng, Weimin... | | | Fuel | 10:34 |
| Liu, Piyang; Li, Shuyu; Yao, Jun; Zhang, Kai... | ...adding using a coupled thermal-hydrologic-chemical model | | International Journal of Ther... | 10:34 |
| Ngo Njembe, M.T.; Dormal, E.; Gardin, C.; Mianolet, E.; | Effect of the dietary combination of flaxseed and Ricinodendron heudelotii or Punica granatum seed oil on t... | 2020 | Food Chemistry | 10:34 |
| Trueman, M. J.; Mo... | | | Chemical Geology | 10:34 |
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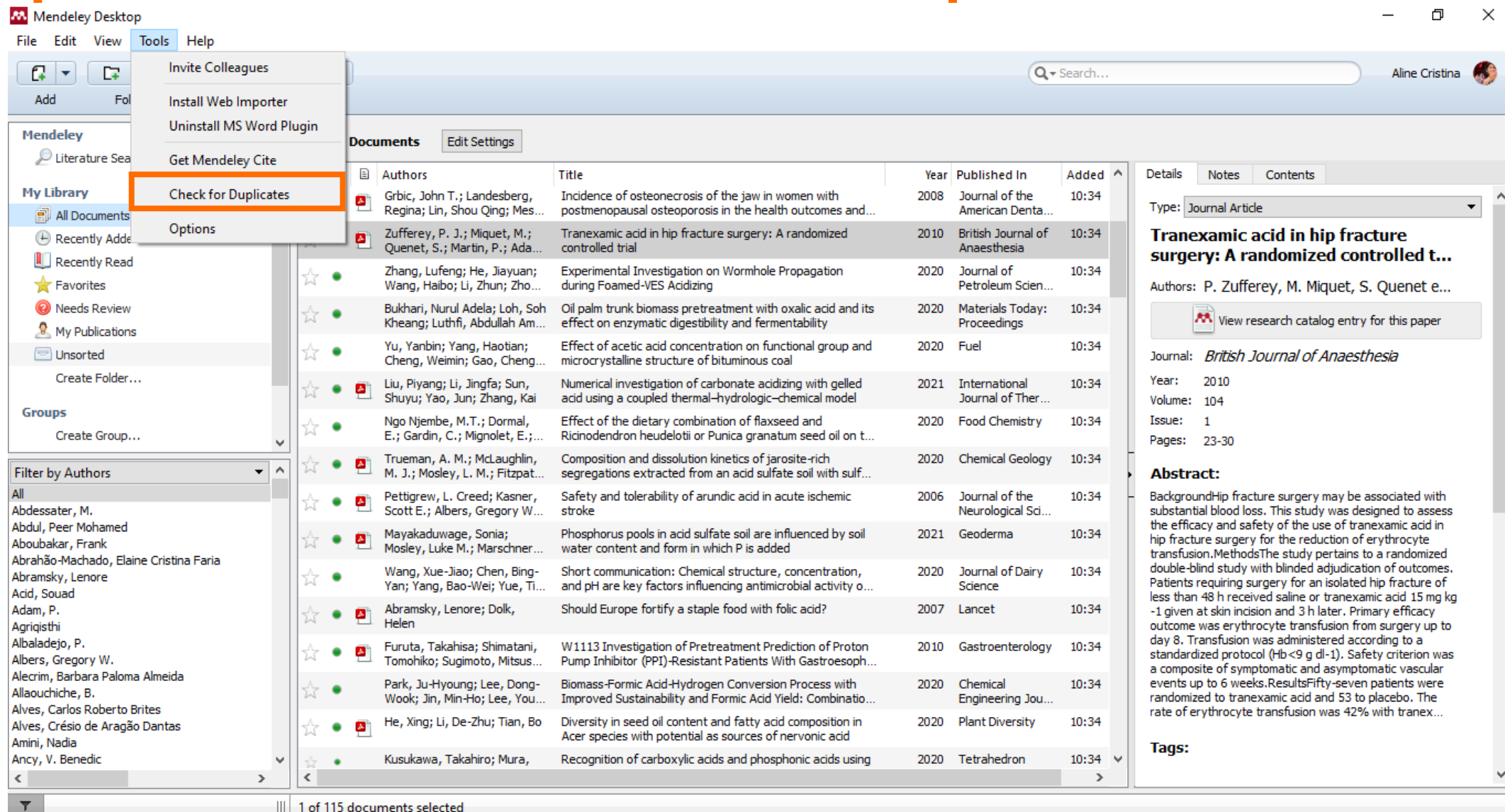
Pages:

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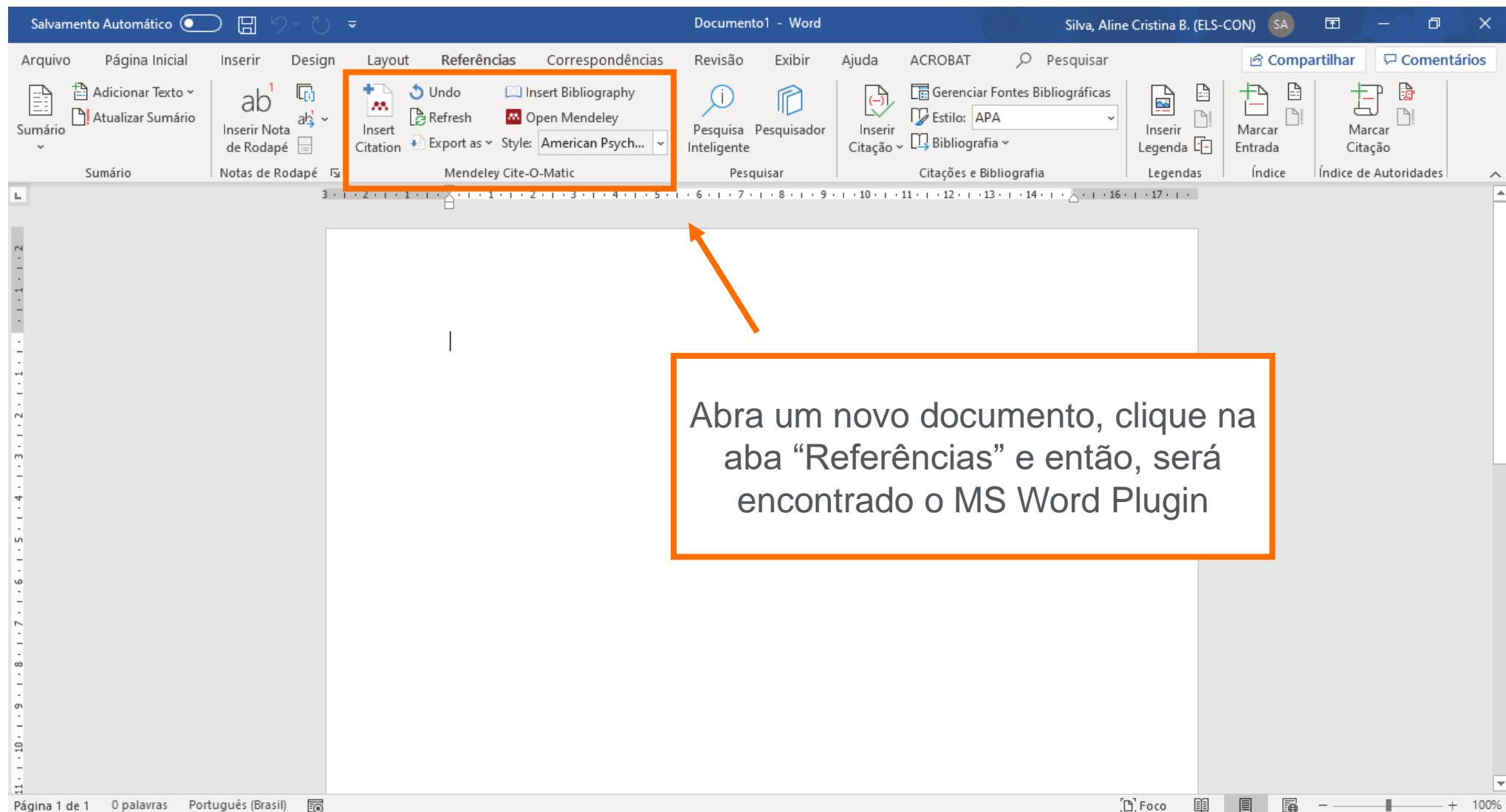
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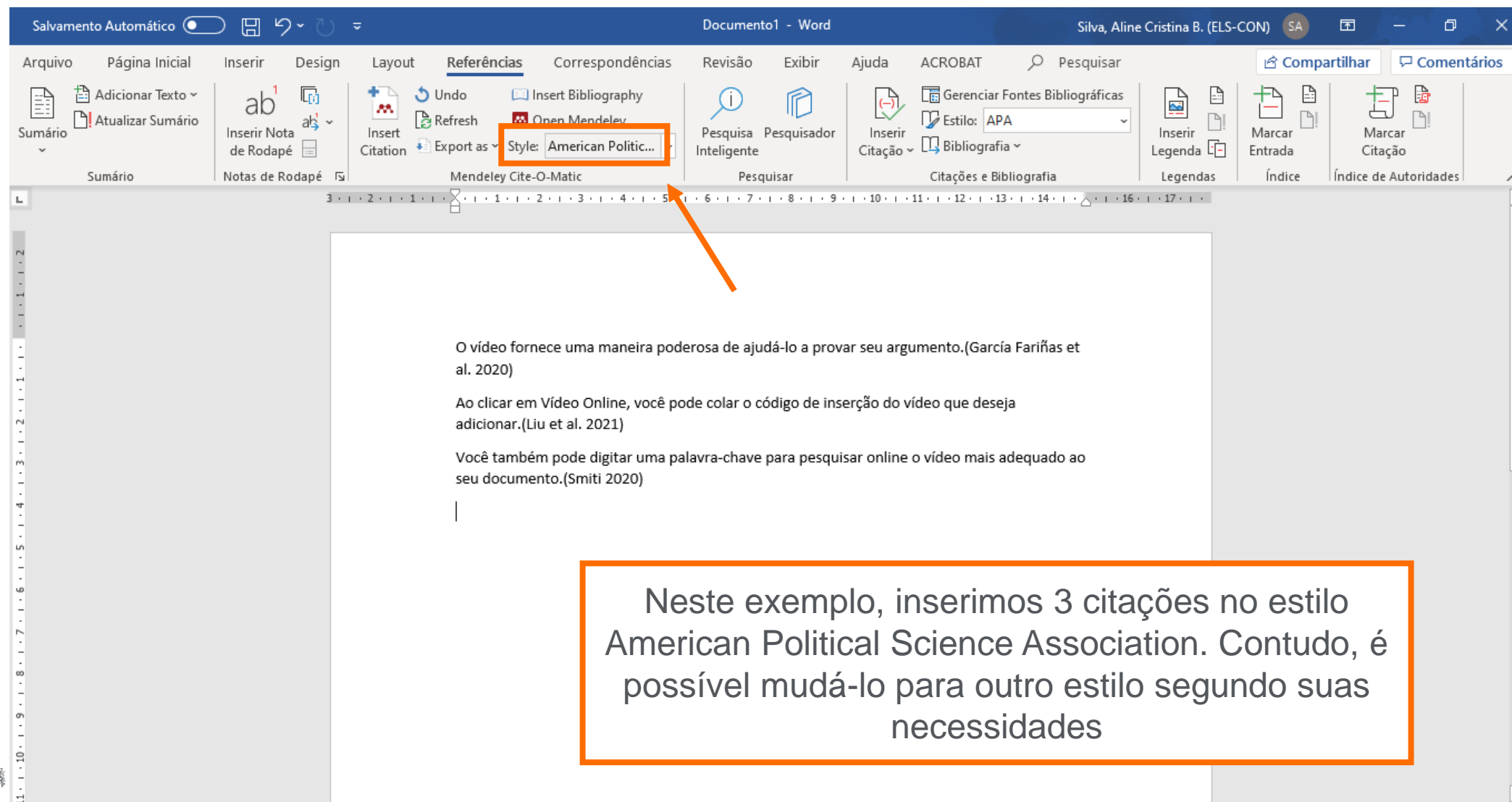
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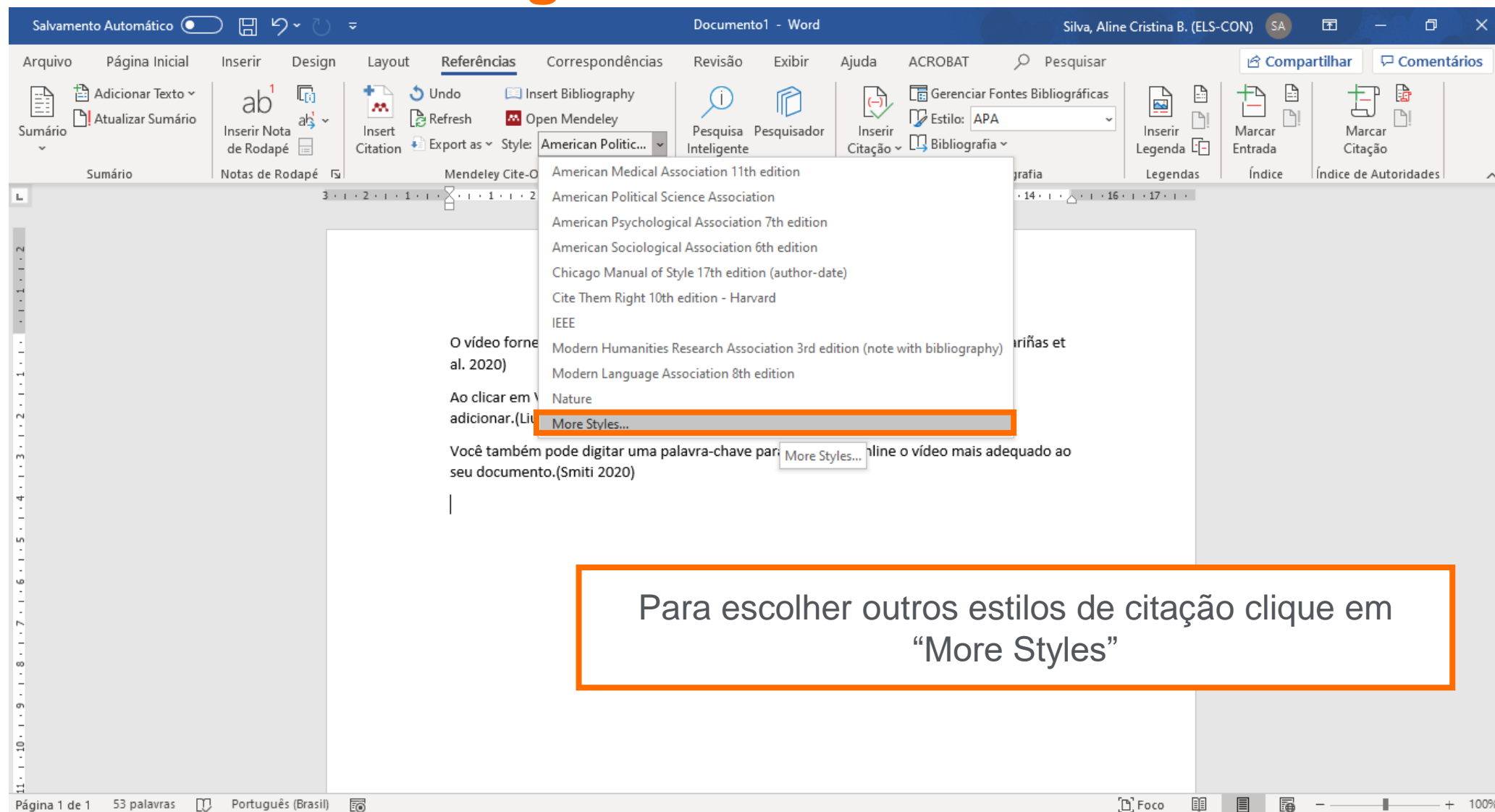
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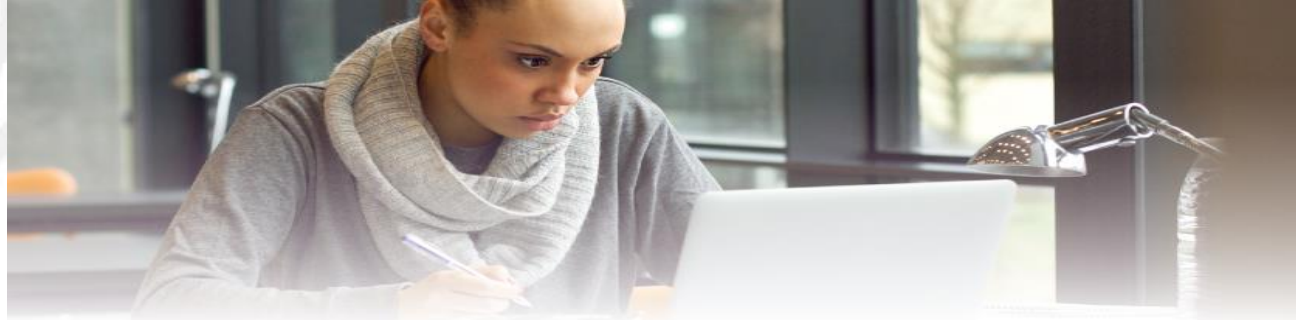
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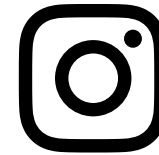
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