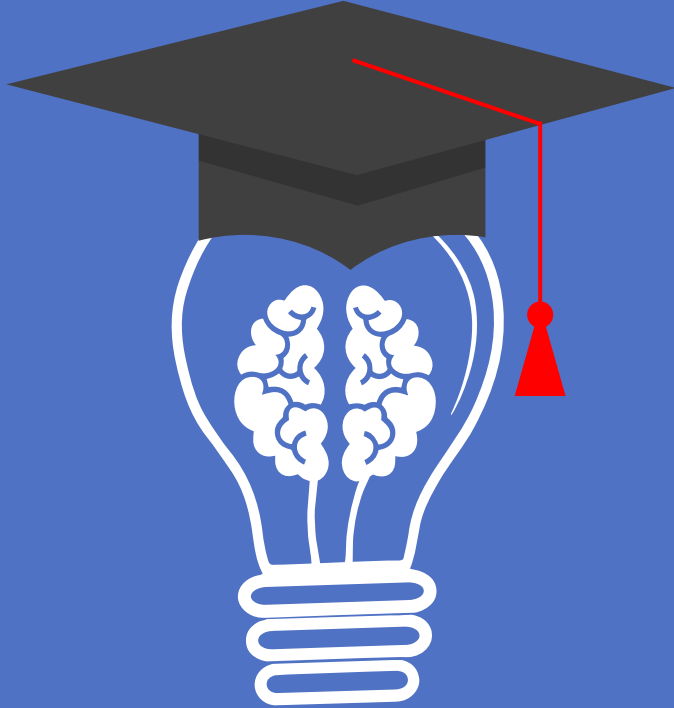


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1

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2

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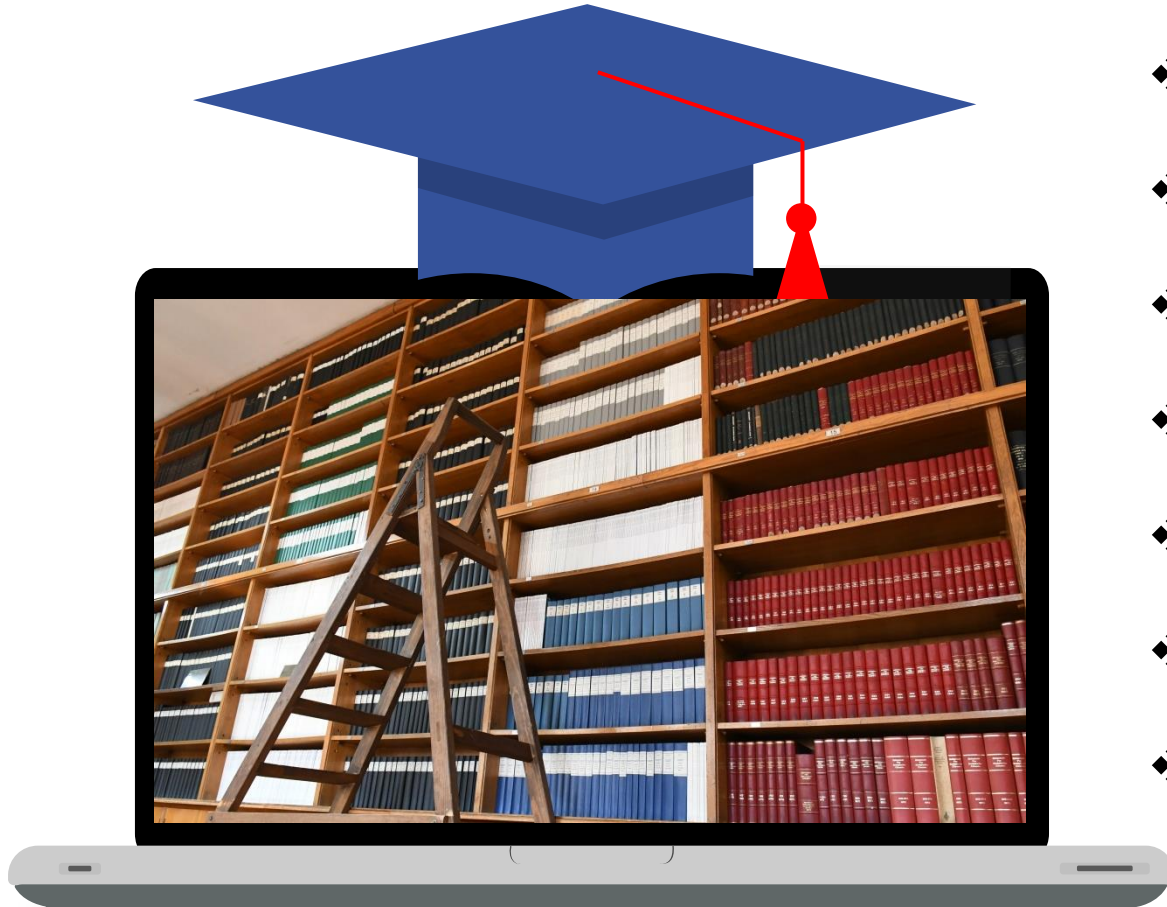
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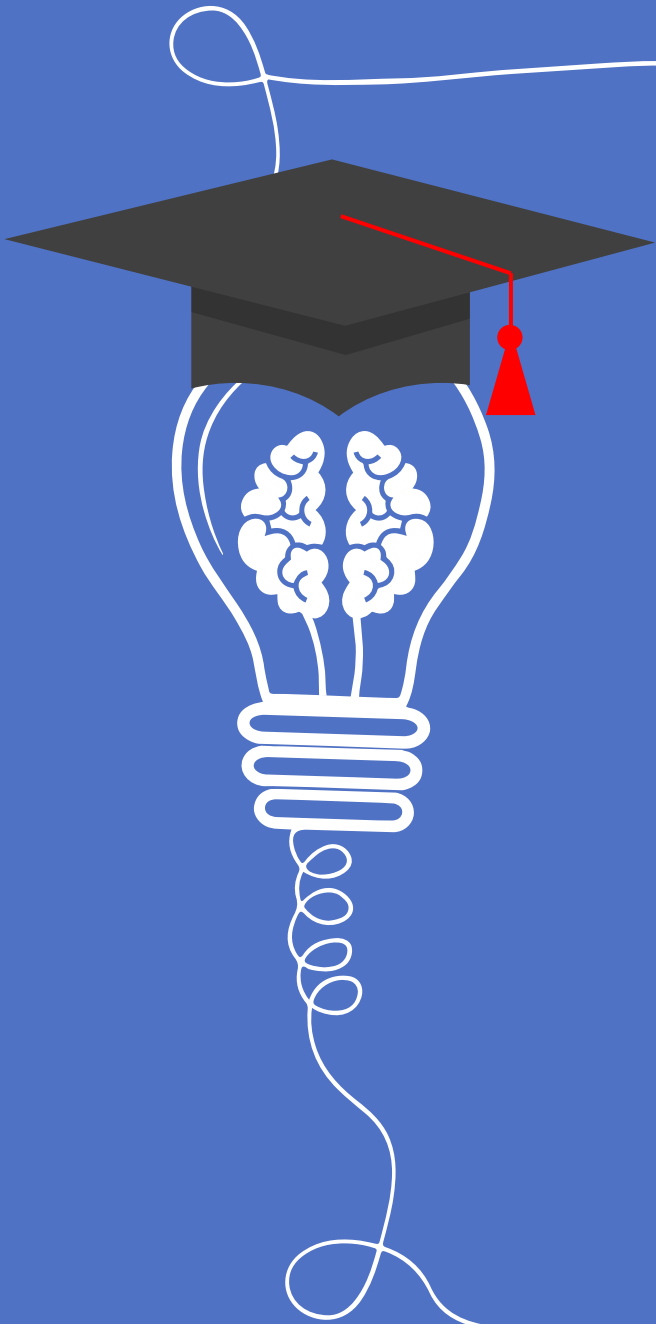
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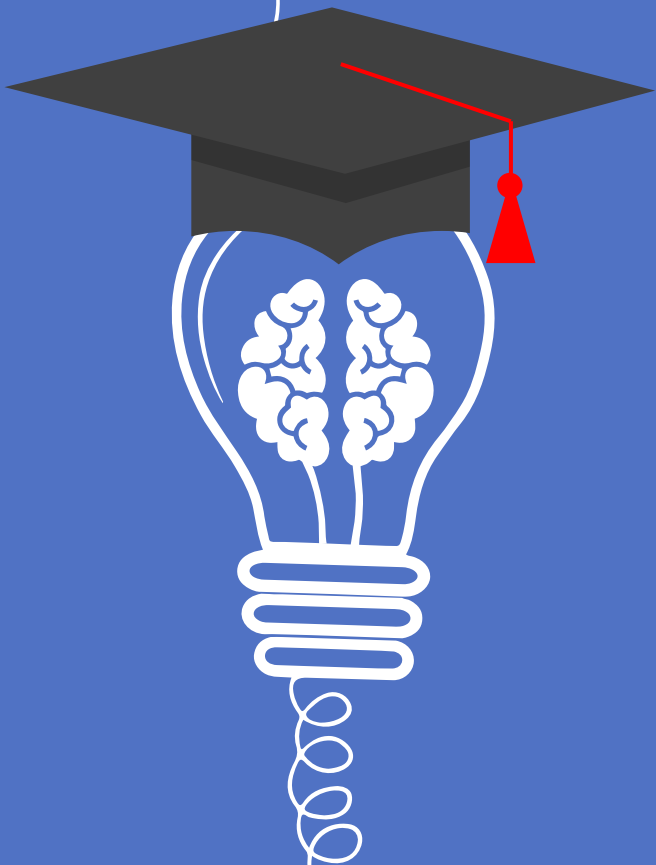
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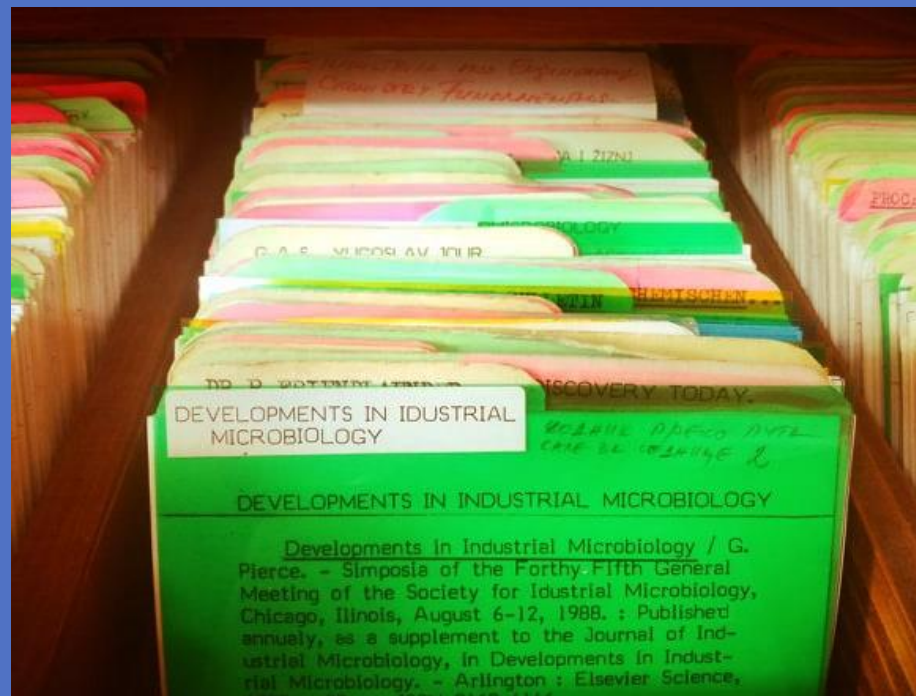
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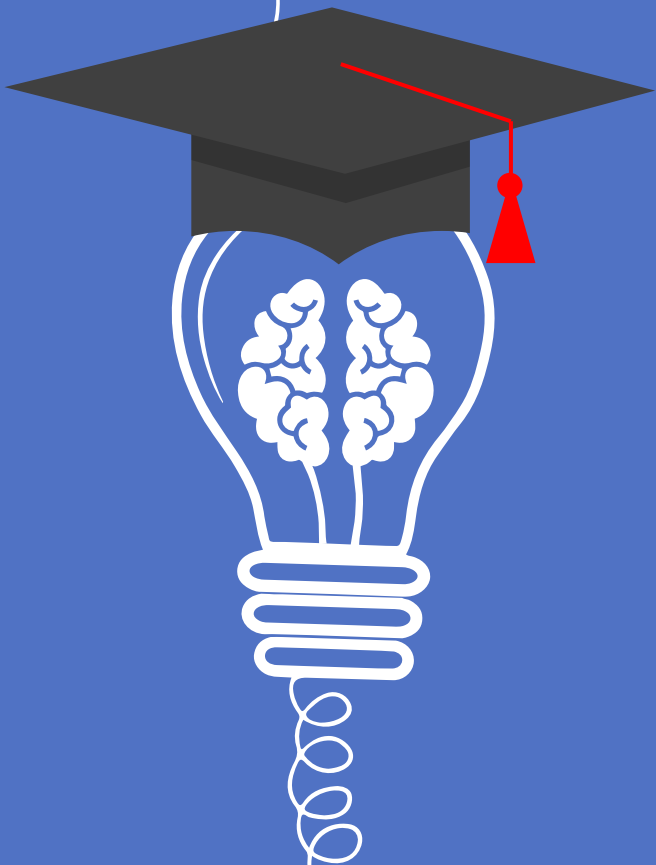




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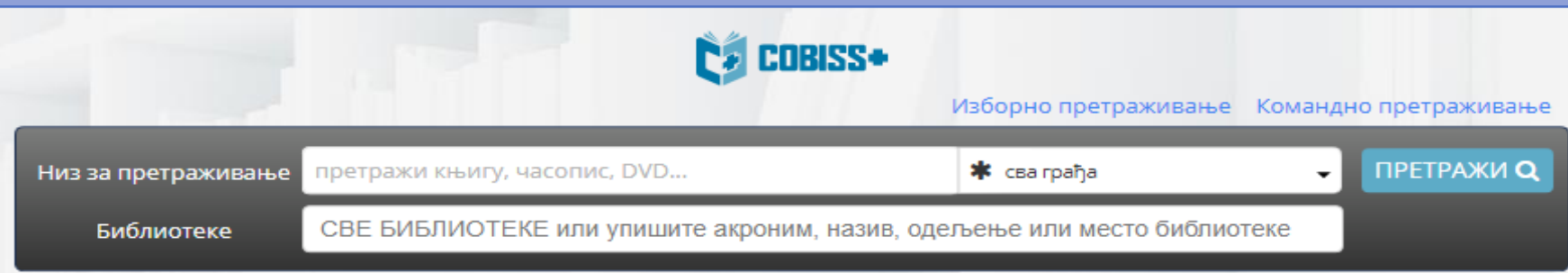
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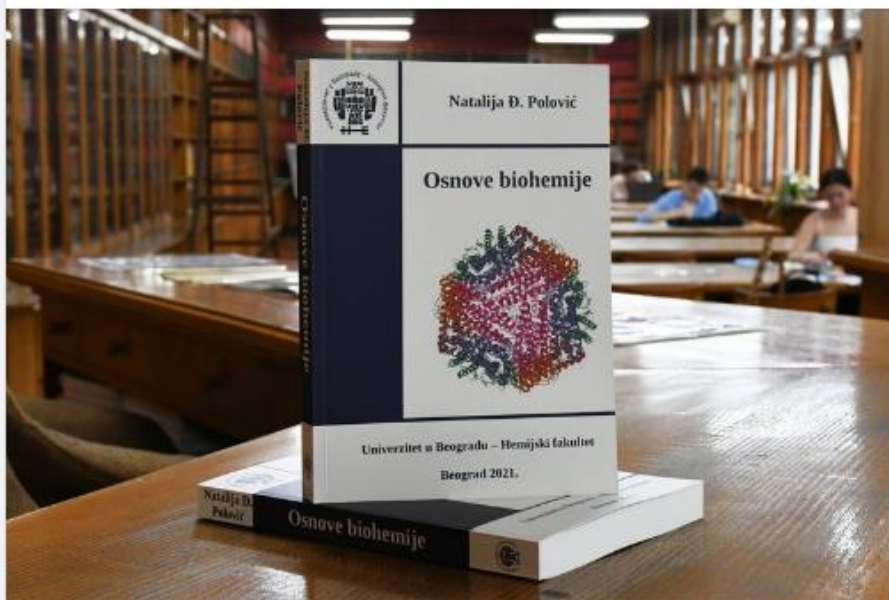




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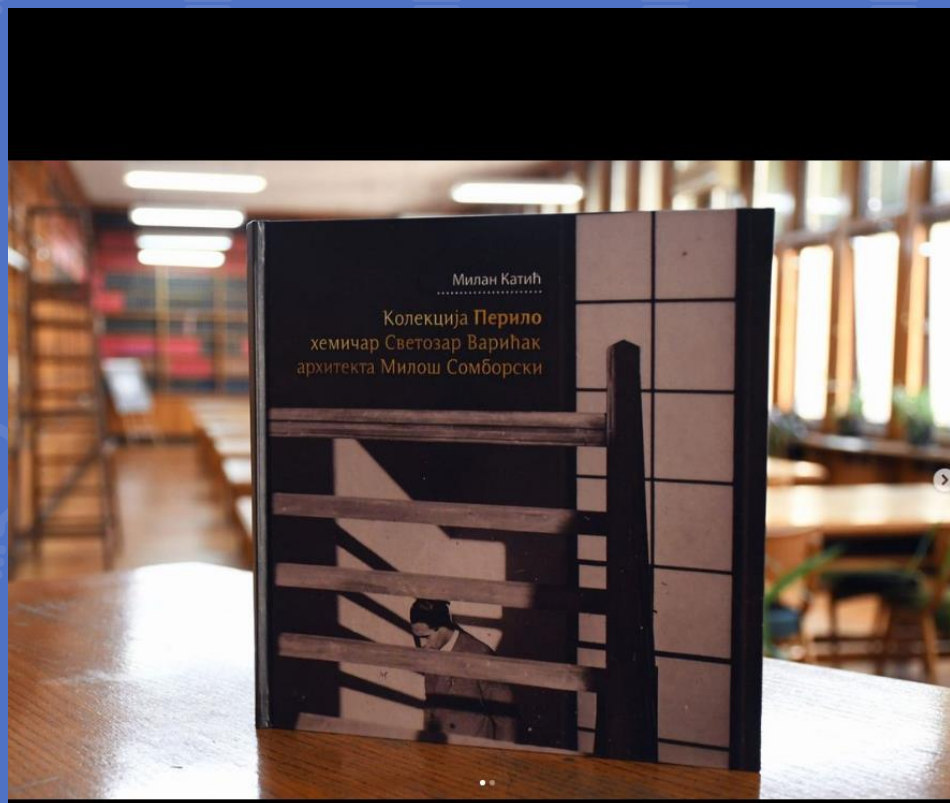
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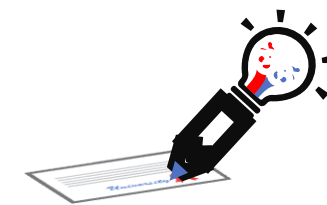


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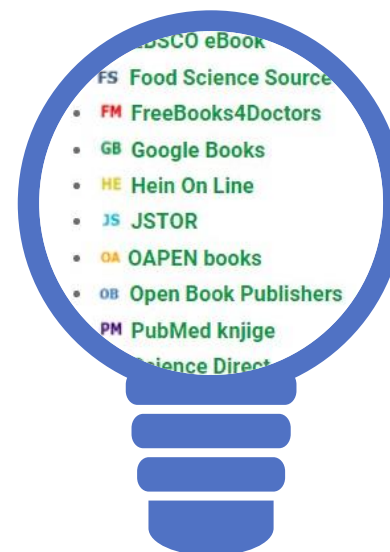
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- ME ASME
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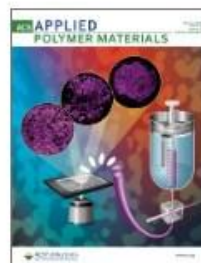
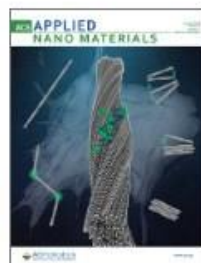
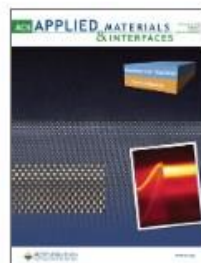
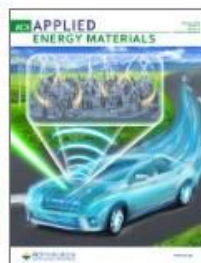
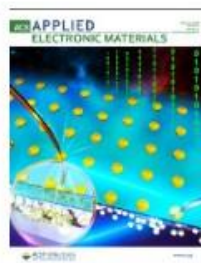
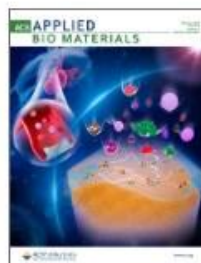
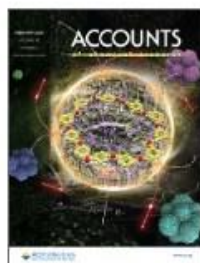
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Modern Liquid Chromatography in Clinical Chemistry

BARRY L. KARGER

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Paquette, Leo A	111
Smith, Richard D	71
Hammock, Bruce D	47
Katzenellenbogen, John A	47
Hamel, Ernest	46

PUBLICATION ^

Analytical Chemistry	8716
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Darien Yeung, Benilde Mizero, Daniel Gussakovsky, Nicole Klaassen, Ying Lao, Victor Spicer, and Oleg V. Krokhin*

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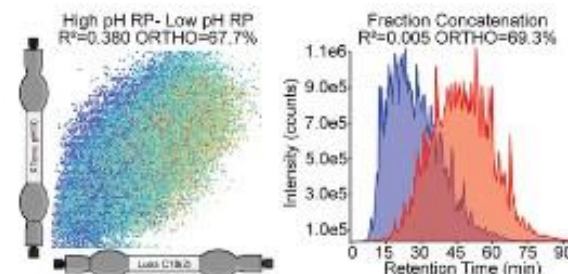
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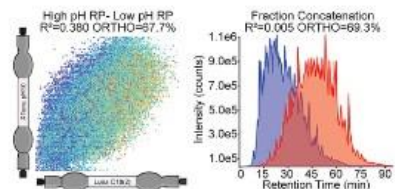
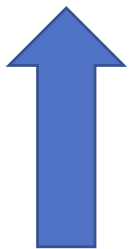
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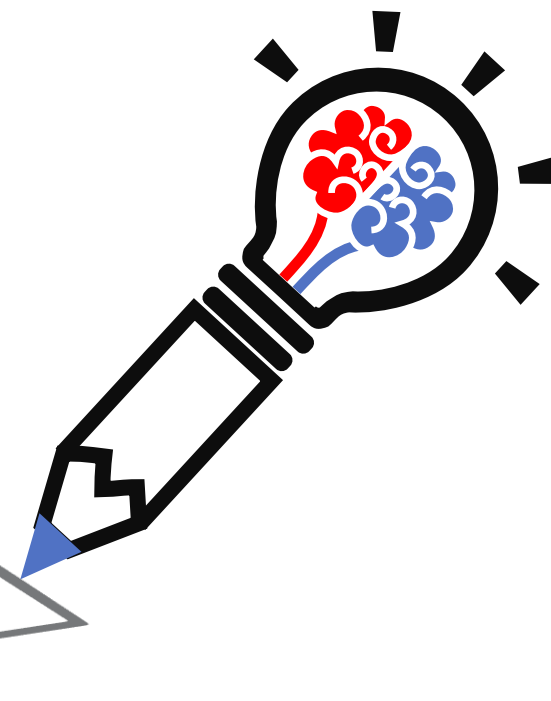
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Cite this: *Anal. Chem.* 2020, 92, 5, 3904–3912

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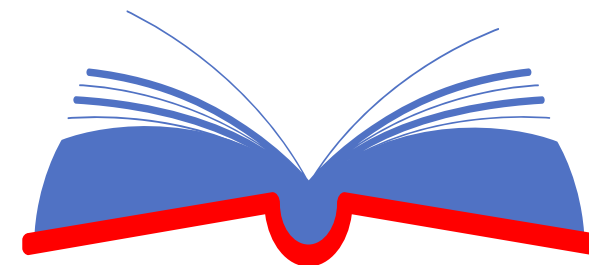


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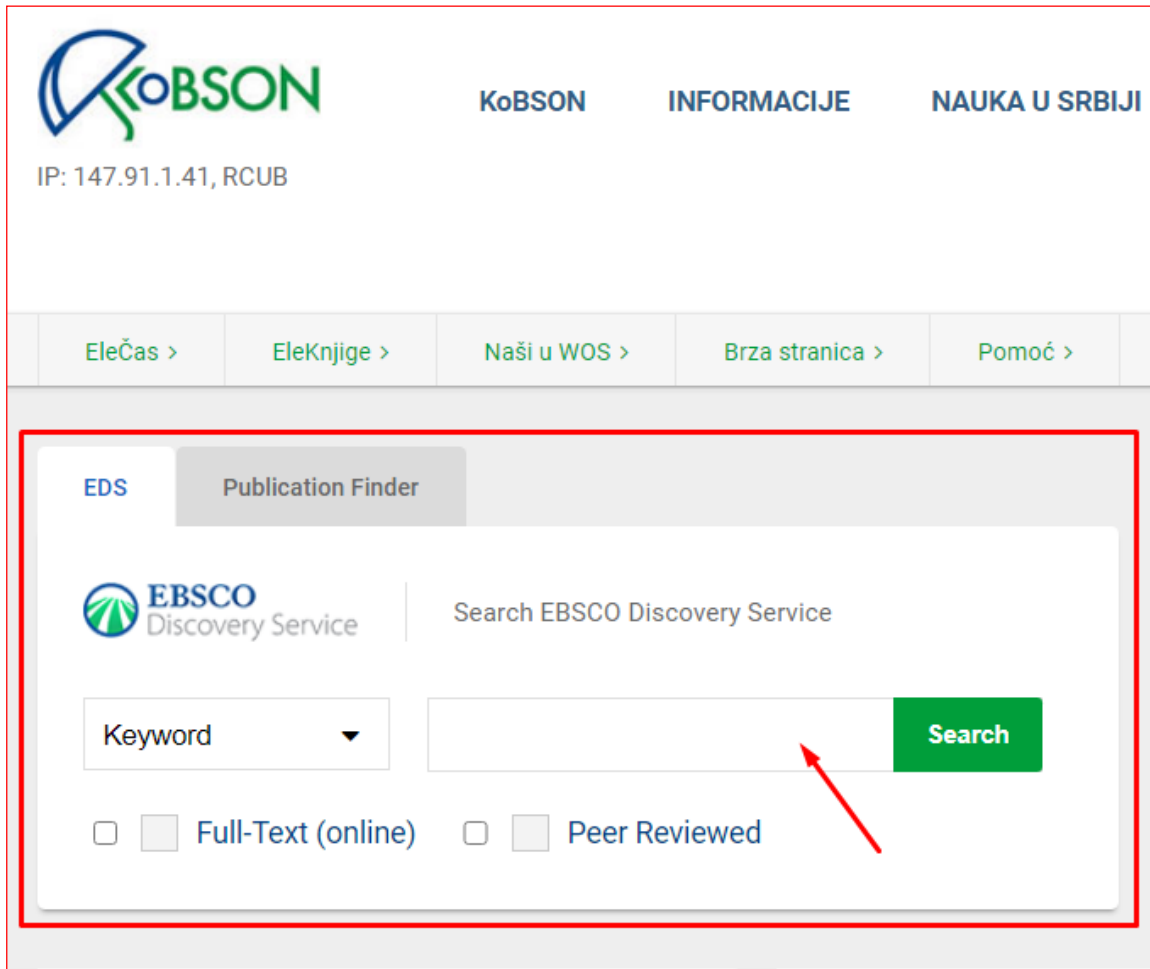
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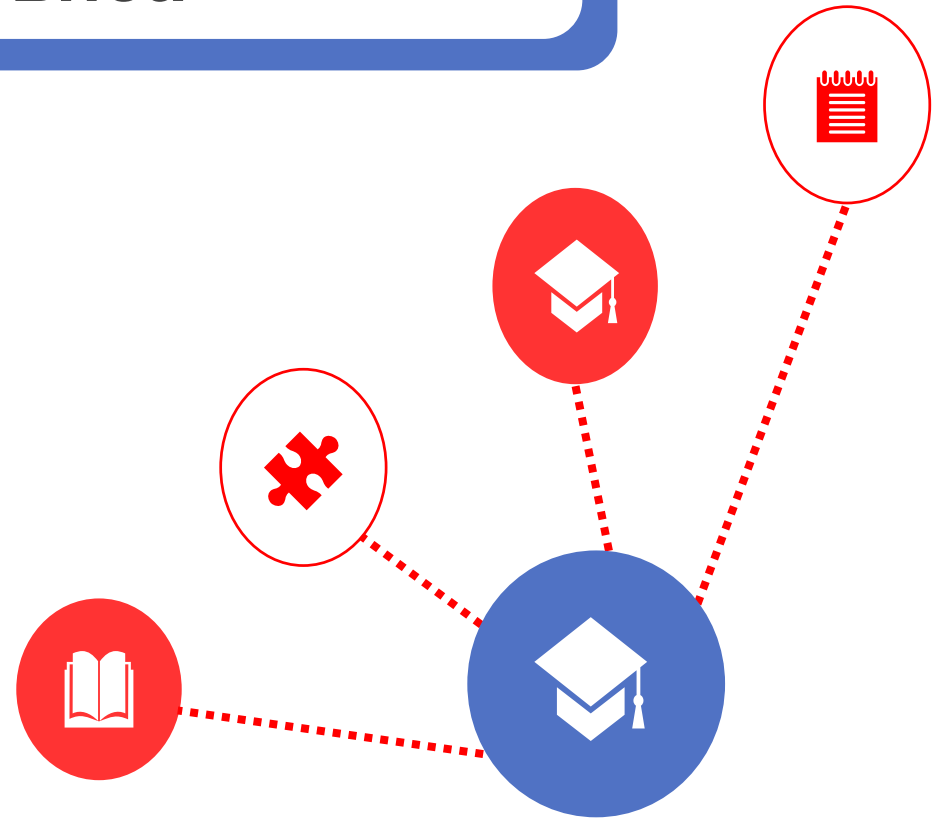
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Subjects: Natural Sciences; Chemical Sciences; Analytical Chemistry; Naturvetenskap; Kemi; Analytisk kemi; Methylmercury-thiol complex; Low molecular mass thiols; Liquid chromatography tandem mass spectrometry; Online preconcentration

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2. Preparation of Carbotrap/silica composite for needle trap field sampling of halogenated volatile organic compounds followed by gas chromatography/mass spectrometry determination



By: Poormohammadi, A.; Bahrami, A.; Ghiasvand, A.; Shahna, F.G.; Farhadian, M.. Journal of Environmental Health Science and Engineering, 5 December 2019, 17(2):1045-1053 Language: English. Springer DOI: 10.1007/s40201-019-00418-2, Database: Scopus

Subjects: Air; Carbotrap B; Dry cleaning; Needle trap device; Silica

Унети што више кључних речи и одредница са леве стране платформе за конкретније резултате претраге.



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By: Caballero-Casero, N.; García-Fonseca, S.; Rubio, S.; Food Control; 88 Oxford:Elsevier Ltd,2018,33-39(Journal Article), Database: CAB Abstracts 1990-Present

A simple and high-throughput sample treatment, based on the use of a supramolecular solvent with restricted access properties (S...
Subjects: analysis; **analytical** methods; centrifuges; **chromatography**; commodities; equipment; essential oils; extracts; food safe...
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4. Simultaneous determination of twelve dyes in meat products: development and validation of an



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By: Iammarino, M.; Mentana, A.; Centonze, D.; Palermo, C.; Mangiacotti, M.; Chiaravalle, A. E.; Food **Chemistry**; 285 Oxford:El...
The use of food dyes in meat is subject to regulations, due to food safety concerns. A reliable method for the determination of 12 fo

Subjects: ammonia; analysis; **analytical** methods; **chromatography**; determination; estimation; food; food **chemistry**; food colour...
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5. Vitamin C evaluation in foods for infants and young children by a rapid and accurate **analytical** method.

By: Silva...; Albuquerque, T. C...; Lima, M. B. D. D.; Costa, H. S.; Food **Chemistry**; 267 Oxford:Elsevier Ltd,2018,82-90(Journal Article; Conference paper), Database: CAB Abstracts 1990-Present

Simultaneous determination of twelve dyes in meat products: development and validation of an analytical method based on HPLC-UV-diode array detection.

Authors: Iammarino, M.; Mentana, A.; Centonze, D.; Palermo, C.; Mangiacotti, M.; Chiaravalle, A. E.

Source: Food Chemistry

Date: 2019

Publication Type: Academic Journal

Subjects: ammonia; analysis; analytical methods; chromatography; determination; estimation; food; food chemistry; food colourants; food safety; foods; fresh products; liquid

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Author(s): Iammarino, M.; Mentana, A.; Centonze, D.; Palermo, C.; Mangiacotti, M.; Chiaravalle, A. E.

Address: National Reference Center for the Detection of Radioactivity in Feed and Foodstuff, Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata, Via Manfredonia 20, 71121 Foggia, Italy.; marco.iammarino@tin.it|annalisa.mentana@unifg.it|diego.centonze@unifg.it|carmen.palermo@unifg.it|michele.mangiacotti@izspb.it|eugenio.chiaravalle@izspb.it

Source: Food **Chemistry** 285 Oxford: Elsevier Ltd,2019, 1-9

Language: English

Country of Publication: UK

Abstract: The use of food dyes in meat is subject to regulations, due to food safety concerns. A reliable method for the determination of 12 food dyes (Amaranth, Ponceau 4R, Carmine, Ponceau SX, Ponceau 3R, Allura Red AC, Carmoisine, Erythrosine, Sudan I, Sudan II, Sudan III and Sudan IV) in meat products using high performance **liquid chromatography** coupled to UV-diode array detection was developed, optimized and fully validated. The extraction was accomplished using acetonitrile, methanol, water, ammonia, 50:40:9:1 (v/v/v/v) as the solvent, and an ultrasonic bath. Chromatographic separation was achieved using a C18 RP column and samples eluted with a gradient acetate-acetonitrile mobile phase. Good **analytical** performance was obtained, in terms of selectivity, sensitivity, accuracy and ruggedness. Both method precision (CV% range: 6.2%-18.0%) and recovery (range: 86.4%-105.0%) complied with Decision 657/2002/EC, suggesting the procedure could be applied successfully for analyses of meat products in the European Union.

Number of References: 32 ref.

Subject Terms: Descriptors: ammonia;analysis;**analytical** methods;**chromatography**;determination;estimation;food;food **chemistry**;food colourants;food safety;foods;fresh products;**liquid chromatography**;meat;meat products;methodology;techniques
Geographic: **Europe**;European Union

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(American Medical Assoc.) Iammarino M, Mentana A, Centonze D, Palermo C, Mangiacotti M, Chiaravalle AE. Simultaneous determination of twelve dyes in meat products: development and validation of an analytical method based on HPLC-UV-diode array detection. *Food Chemistry*. 2019;285:1-9. <http://search.ebscohost.com/login.aspx?direct=true&db=lbh&AN=20193207523&site=eds-live>. Accessed February 27, 2020.

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Reference List

Iammarino M, Mentana A, Centonze D, Palermo C, Mangiacotti M, Chiaravalle AE. Simultaneous determination of twelve dyes in meat products: development and validation of an analytical method based on HPLC-UV-diode array detection. *Food Chemistry*. 2019;285:1-9. <http://search.ebscohost.com/login.aspx?direct=true&db=lbh&AN=20193207523&site=eds-live>. Accessed February 27, 2020.

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References

Iammarino, M., Mentana, A., Centonze, D., Palermo, C., Mangiacotti, M., & Chiaravalle, A. E. (2019). Simultaneous determination of twelve dyes in meat products: development and validation of an analytical method based on HPLC-UV-diode array detection. *Food Chemistry*, 285, 1–9.

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Reference List

Iammarino, M., A. Mentana, D. Centonze, C. Palermo, M. Mangiacotti, and A. E. Chiaravalle. 2019. "Simultaneous Determination of Twelve Dyes in Meat Products: Development and Validation of an Analytical Method Based on HPLC-UV-Diode Array Detection." *Food Chemistry* 285: 1–9. <http://search.ebscohost.com/login.aspx?direct=true&db=lbh&AN=20193207523&site=eds-live>.

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Iammarino, M, Mentana, A, Centonze, D, Palermo, C, Mangiacotti, M & Chiaravalle, AE 2019, 'Simultaneous determination of twelve dyes in meat products: development and validation of an analytical method based on HPLC-UV-diode array detection', *Food Chemistry*, vol. 285, pp. 1–9, viewed 27 February 2020, <<http://search.ebscohost.com/login.aspx?direct=true&db=lbh&AN=20193207523&site=eds-live>>.

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Iammarino, M. *et al.* (2019) 'Simultaneous determination of twelve dyes in meat products: development and validation of an analytical method based on HPLC-UV-diode array detection', *Food Chemistry*, 285, pp. 1–9. Available at: <http://search.ebscohost.com/login.aspx?direct=true&db=lbh&AN=20193207523&site=eds-live> (Accessed: 27 February 2020).

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Bibliography

Iammarino, M., A. Mentana, D. Centonze, C. Palermo, M. Mangiacotti, and A. E. Chiaravalle. "Simultaneous Determination of Twelve Dyes in Meat Products: Development and Validation of an Analytical Method Based on HPLC-UV-Diode Array Detection." *Food Chemistry* 285 (2019): 1–9. <http://search.ebscohost.com/login.aspx?direct=true&db=lbh&AN=20193207523&site=eds-live>.

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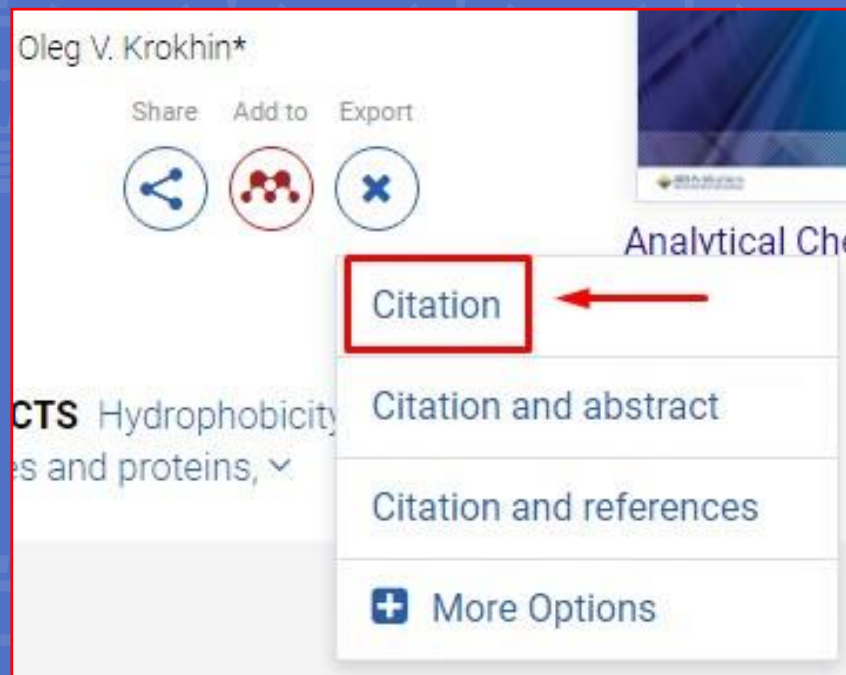
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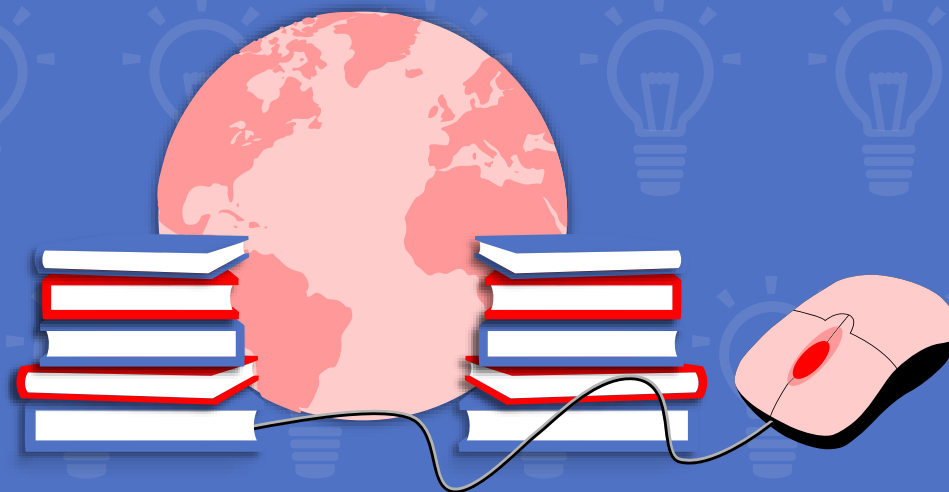
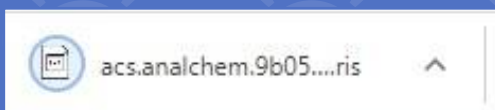
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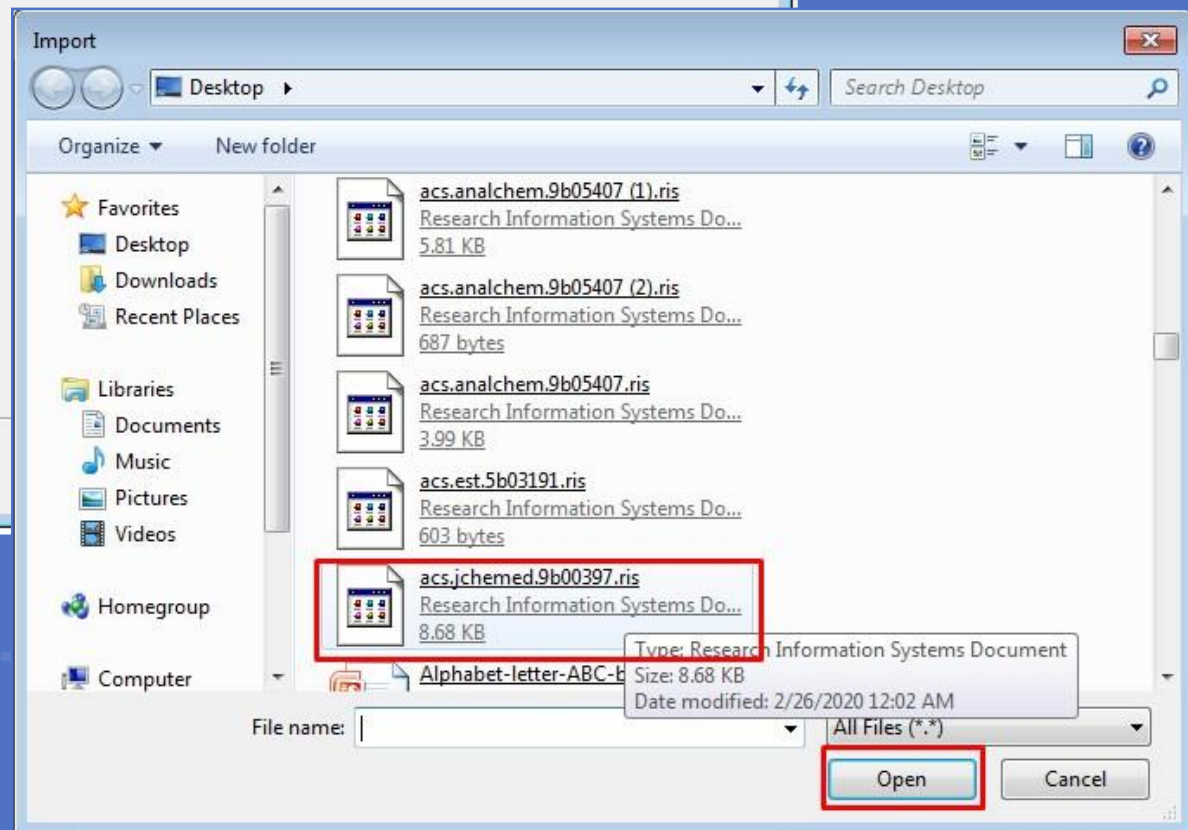
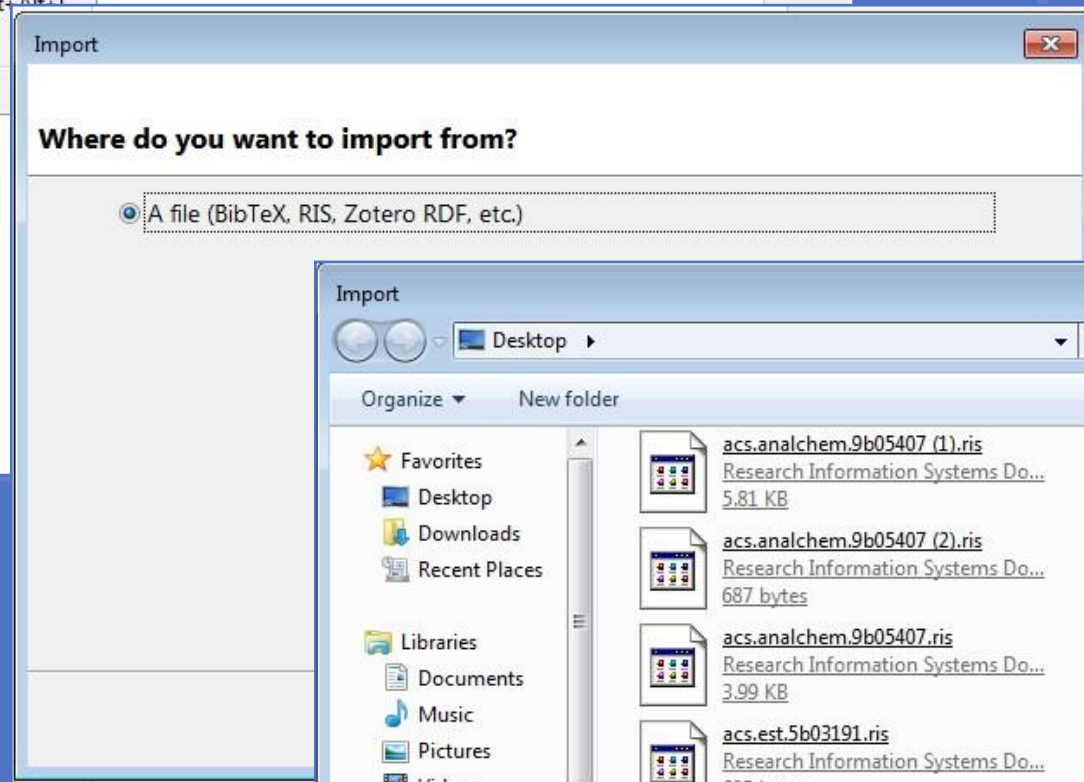
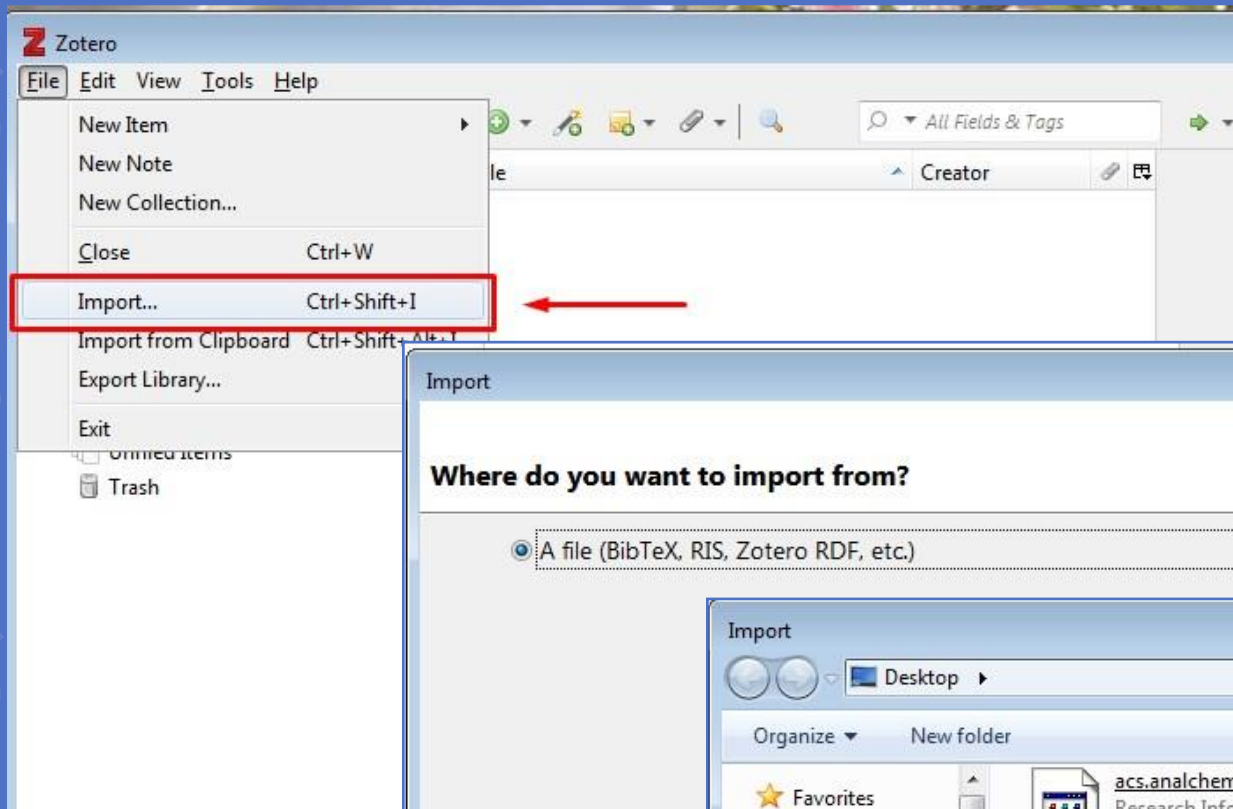


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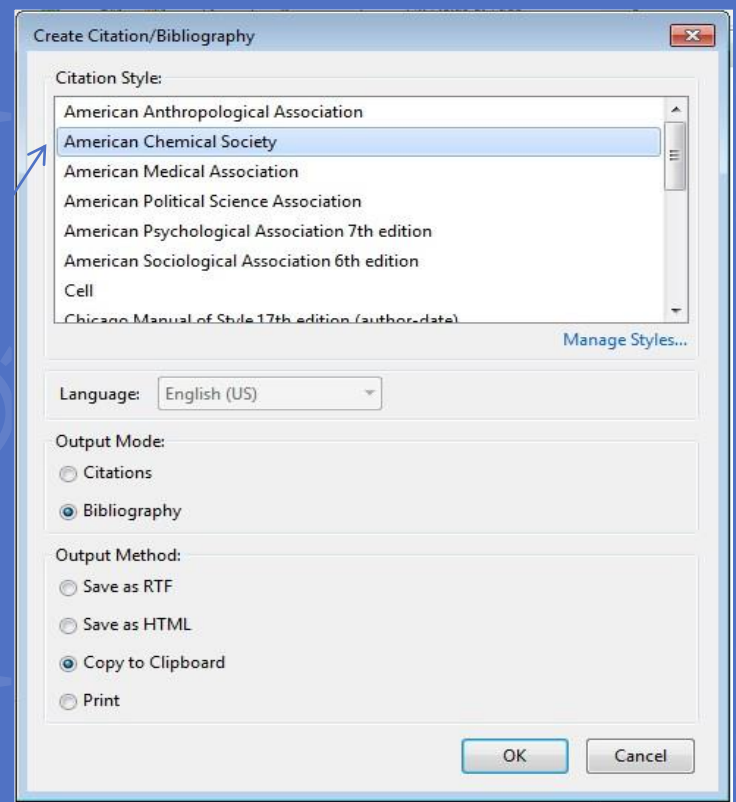
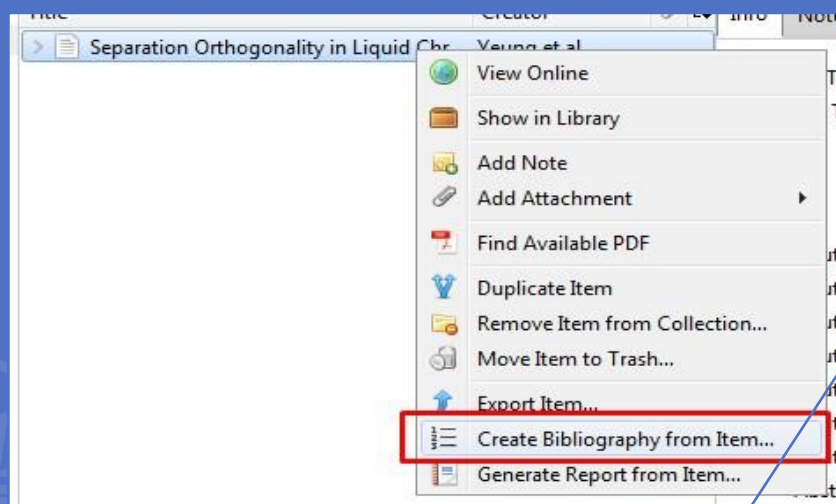
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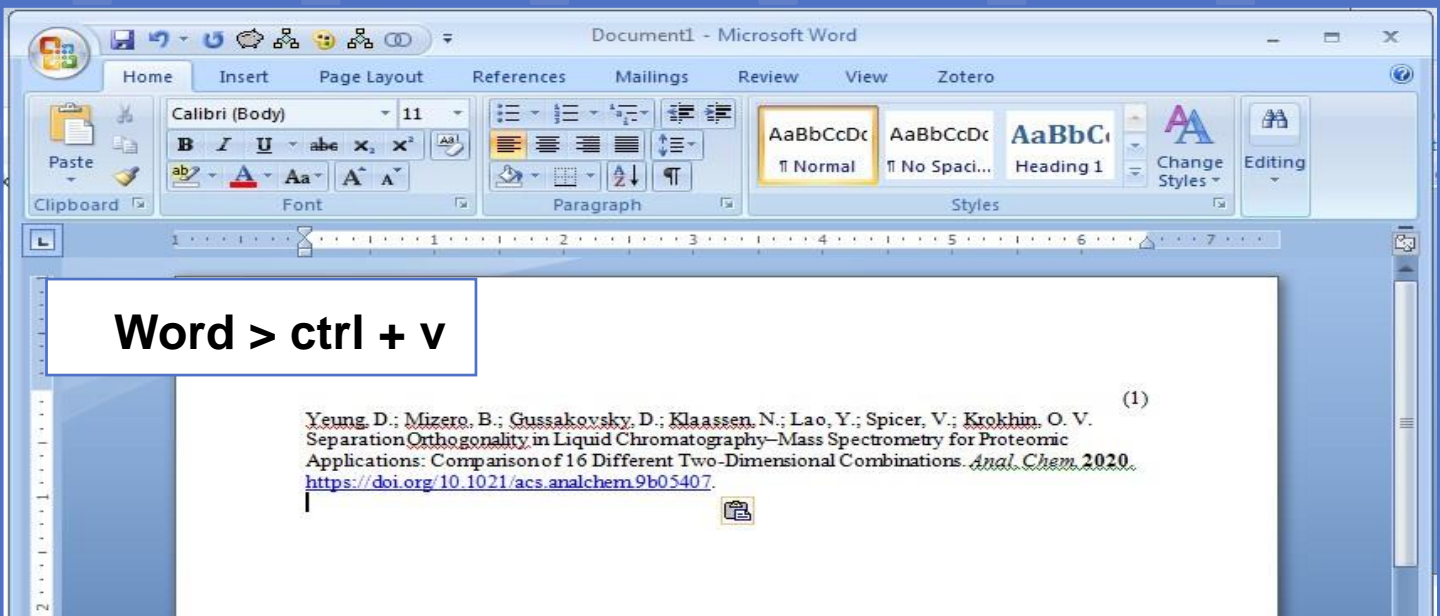
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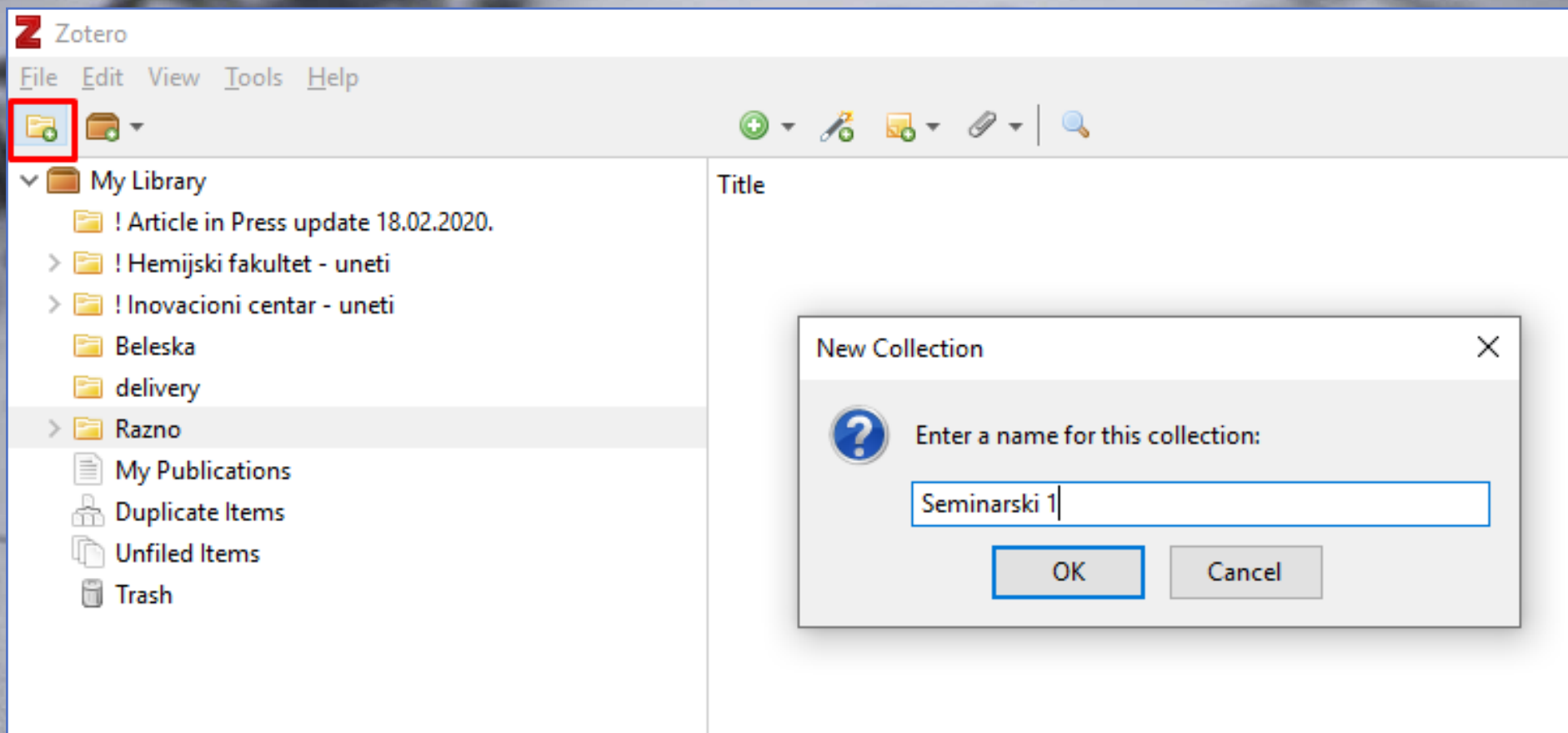




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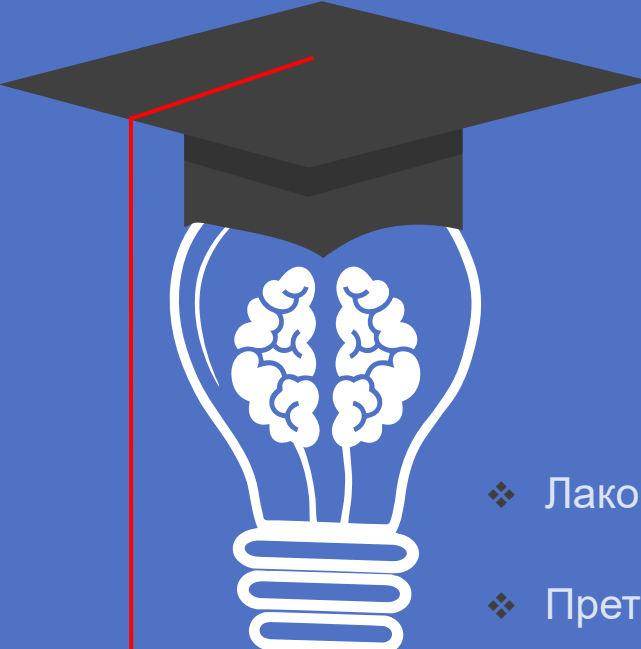
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Uzelac, Tamara N.; Nikolić-Kokić, Aleksandra; Spasić, Snežana; Mačvanin, Mirjana T.; Nikolić, Milan; Mandić, Ljuba M.; Jovanović, Vesna B. (Elsevier, 2019)

[Supplementary data for the article: Apostolovic, D.; Mihailovic, J.; Commins, S. P.; Wijnveld, M.; Kazimirova, M.; Starkhammar, M.; Stockinger, H.; Platts-Mills, T. A. E.; Cirkovic Velickovic, T.; Hamsten, C.; et al. Allergenomics of the Tick Ixodes Ricinus Reveals Important \$\alpha\$ -Gal-Carrying IgE-Binding Proteins in Red Meat Allergy. Allergy: European Journal of Allergy and Clinical Immunology 2020, 75 \(1\), 217–220. <https://doi.org/10.1111/all.13978>](#)

Apostolović, Danijela; Mihailović, Jelena; Commins, Scott P.; Wijnveld, Michiel; Kazimirova, Maria; Starkhammar, Maria; Stockinger,



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[Институције](#)

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ПРИКАЗ ПРЕМА:

Години објављивања

[2020 - 2021 \(48\)](#)

[2010 - 2019 \(2809\)](#)

[2000 - 2009 \(763\)](#)

[1990 - 1999 \(161\)](#)

[1982 - 1989 \(13\)](#)

Типу документа

[Чланак у часопису \(2801\)](#)

[Остало \(555\)](#)

[Конференцијски прилог \(201\)](#)

[Докторска теза \(171\)](#)

[Информативни прилог \(31\)](#)

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Институције:

- ❖ Хемијски факултет
- ❖ Иновациони центар

Колекције у овој групи

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Подгрупе унутар ове групе

Projekti

Колекције у овој групи

Doktorati

Master radovi

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Završni radovi

Начини претраге могући према:

Година издавања
2020 - 2022 (108)
2010 - 2019 (653)
2000 - 2009 (31)
1997 - 1999 (2)

Верзија
Објављена верзија (744)
Рецензирана верзија (50)

Ниво доступности
Приступ са лозинком (460)
Отворени приступ (277)
Одложени приступ (50)

Комплетан репозиторијум
Институције
Аутори
Наслови
Теме

Категорија часописа
M21 (198)
M22 (132)
M23 (115)
aM21 (60)
M21~ (50)
M22~ (33)
aM21~ (18)
M23~ (15)
M24 (6)
M51 (2)

Тема
Cytotoxicity (22)
Antioxidant activity (16)
Apoptosis (16)
PCA (16)
Antimicrobial activity (15)

Тип документа
Чланак у часопису (628)
Скуп података (127)
Конференцијски прилог (26)
Поглавље у монографији (6)
Информативни прилог (5)
Докторска теза (3)

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Authentication of Turkish propolis through HPTLC fingerprints combined with multivariate analysis and palynological data and their comparative antioxidant activity



2018

[guzelmerc2017.pdf \(1.498Mb\)](#)

Аутори

Guzelmerc, Etil
Ristivojević, Petar
Trifković, Jelena
Dastan, Tugce
Yilmaz, Ozlem
Cengiz, Ozlem
Yesilada, Erdem Чланак у часопису (Рецензирана
верзија)

Метаподаци

Приказ свих података о документу

Propolis is a honeycomb product having very diverse chemical composition and possessing a broad spectrum of biological activities. This study comprehensively evaluated the phenolic profile of Turkish propolis by using a high performance thin-layer chromatographic (HPTLC) method in combination with image analysis and pattern recognition technique. Also, botanical origin of each propolis sample was determined by comparison of HPTLC fingerprints of propolis samples with that of plant bud extracts and also by palynological analysis. Moreover, HPTLC coupled with 2,2-diphenyl-1-picrylhydrazyl (DPPH) detection technique was used for screening of antioxidant activity of each separated compounds directly on the plate. Results of the present study have demonstrated that Turkish propolis could be classified under three main types; i.e. orange (O) (originated from *Populus nigra* L), blue (B) (originated from *Populus tremula* L) and nonphenolic types. Palynological analysis have shown that dominant p...



Кључне речи:

Propolis / High performance thin-layer / chromatography (HPTLC) / Palynological analysis / Antioxidant activity / Chemometrics

Извор:

LWT -food Science and Technology (Lebensmittel - Wissenschaft und Technologie), 2018, 87, 23-32

Издавач:

- Elsevier Science Bv, Amsterdam

Пројекти:

- Корелација структуре и особина природних и синтетичких молекула и њихових комплекса са металима (RS-172017)

Напомена:

- This is peer-reviewed version of the following article: Guzelmerc, E.; Ristivojević, P.; Trifković, J.; Dastan, T.; Yilmaz, O.; Cengiz, O.; Yesilada, E. Authentication of Turkish Propolis through HPTLC Fingerprints Combined with Multivariate Analysis and Palynological Data and Their Comparative Antioxidant Activity. LWT - Food Science and Technology 2018, 87, 23–32. <https://doi.org/10.1016/j.lwt.2017.08.060>
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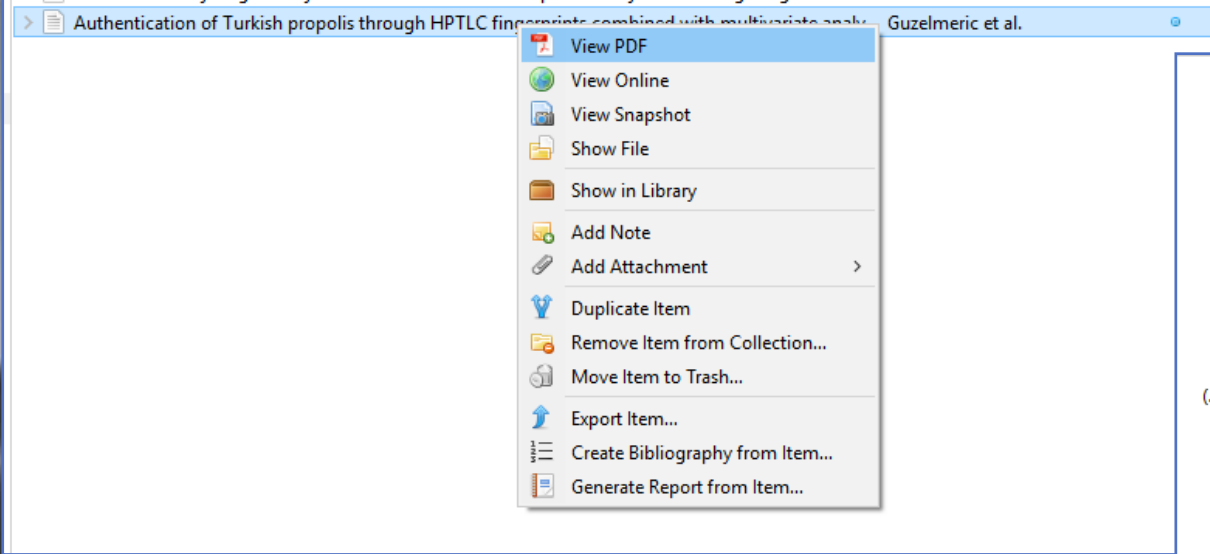
Ова институција

Аутори

Наслови

Теме

Сваки запис рада се кроз
Zotero конектор може
експортирати.



Item Type Journal Article

Title Authentication of Turkish propolis through HPTLC fingerprints combined with multivariate analysis and palynological data and their comparative antioxidant activity

Author Guzelmeric, Etil

Author Ristivojević, Petar

Author Trifković, Jelena

Author Dastan, Tugce

Author Yilmaz, Ozlem

Author Cengiz, Ozlem

Author Yesilada, Erdem

(...) Abstract of each propolis sample was determined by comparison of HPTLC fingerprints of propolis samples with that of plant bud extracts and also by palynological analysis. Moreover, HPTLC coupled with 2,2-diphenyl-1-picrylhydrazyl (DPPH) detection technique was used for screening of antioxidant activity of each separated compounds directly on the plate. Results of the present study have demonstrated that Turkish propolis could be classified under three main types; i.e. orange (O) (originated from *Populus nigra* L), blue (B) (originated from *Populus tremula* L) and nonphenolic types. Palynological analysis have shown that dominant pollen grains (>45%) in propolis samples were: Fabaceae, Lamiaceae, Rosaceae, *Castanea sativa* Mill., *Lotus corniculatus* L., *Salix* spp. In addition, HPTLC-DPPH results showed that O-type of propolis exerted higher antioxidant activity than the other propolis types. Moreover, quercetin, caffeic acid, caffeic acid phenyl ester, pinobanksin and galangin had significant contribution to the antioxidant activity of propolis. (C) 2017 Elsevier Ltd. All rights reserved.

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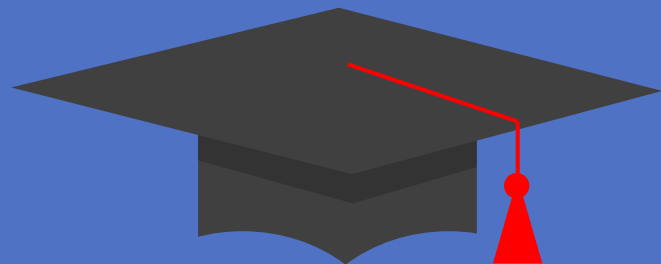
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