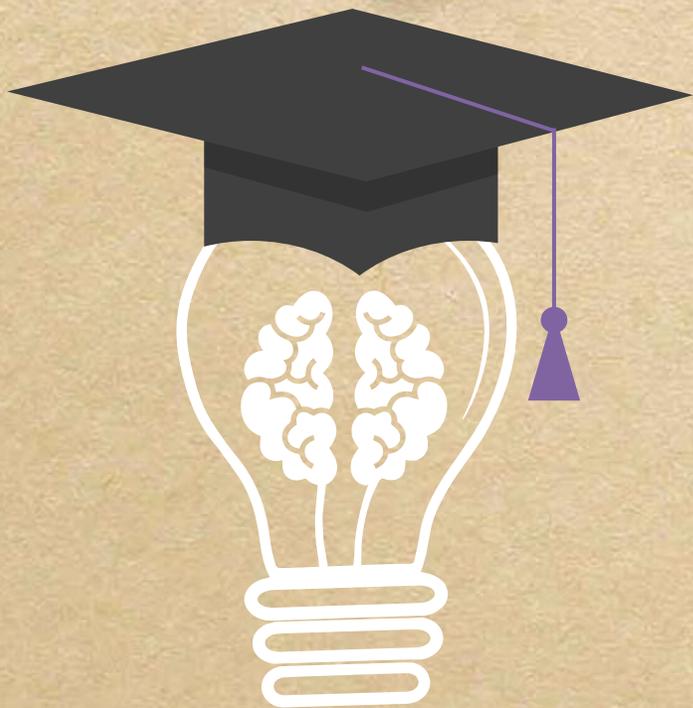


# Претрага литературе за успешне студије будућих научника (IV)

Ана Ђорђевић  
[anadj@chem.bg.ac.rs](mailto:anadj@chem.bg.ac.rs)

Универзитет у Београду - Хемијски факултет, Београд, март 2023.



1

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- ❖ енциклопедије, речници и зборници,
- ❖ магистарски и специјалистички радови,
- ❖ дипломски и мастер радови,
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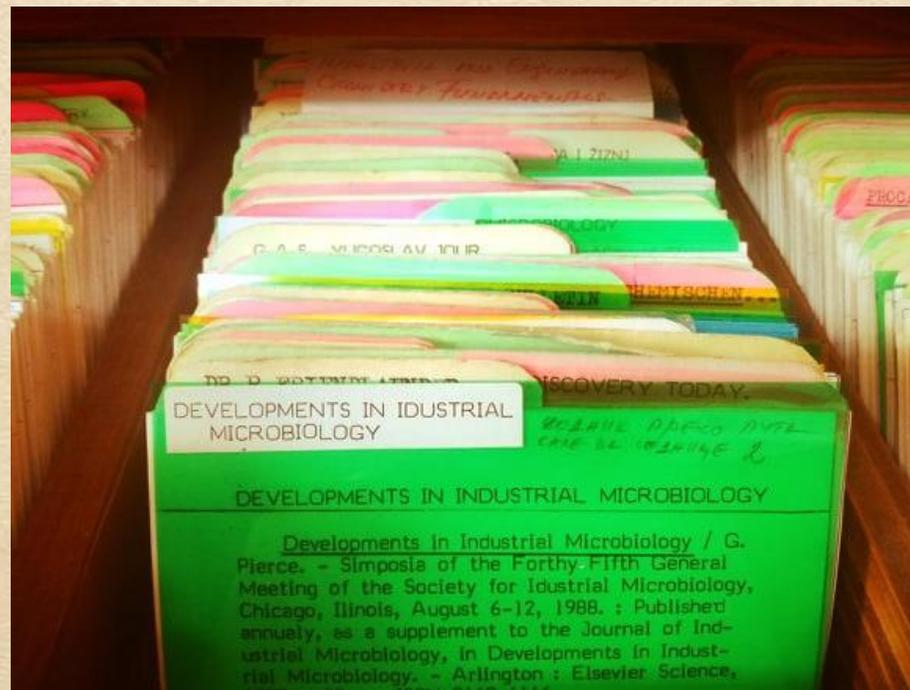
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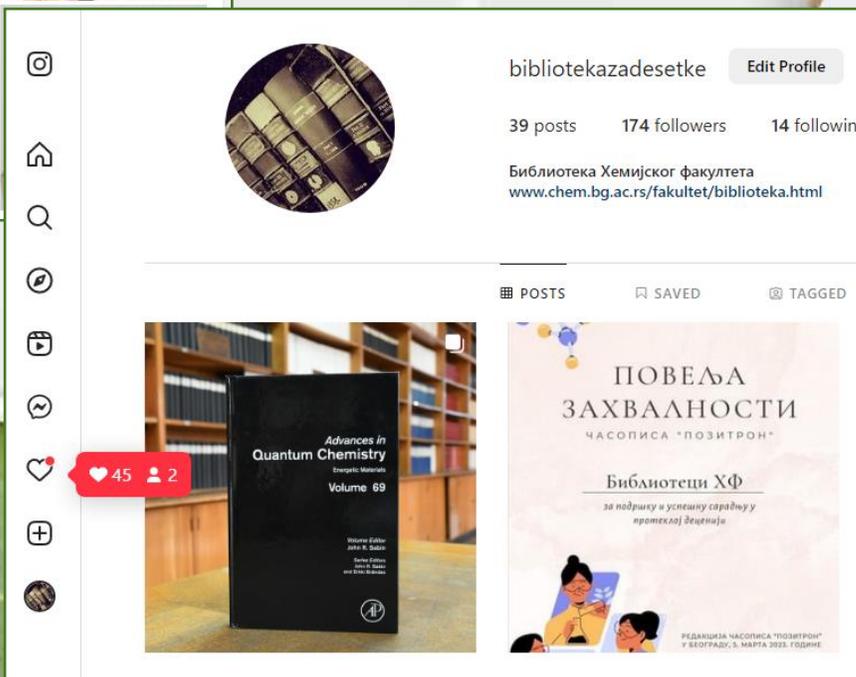
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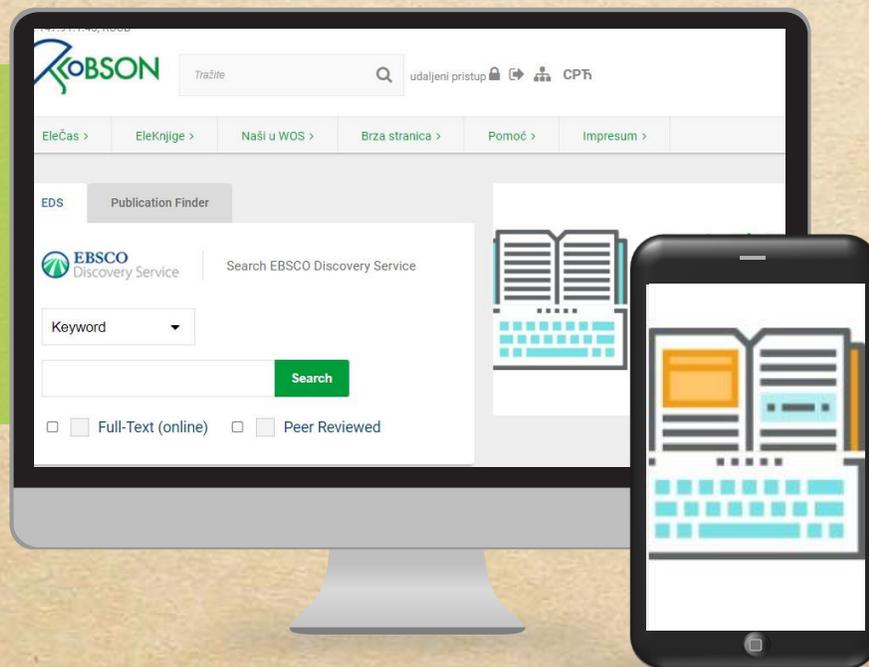
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- AP Am Phys Soc
- PA Am Psych Assoc
- ME ASME
- CU Cambridge
- EM Emerald
- IO Inst Phys Publ
- OX Oxford Journals
- RC RSC
- SG SAGE
- SD Science Direct
- SP Springer/Kluwer
- WI Wiley

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из једне области

\* тамно зелени -  
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- CL Cleveland Med Index
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- EB EBSCO eBook
- FM FreeBooks4Doctors
- GB Google Books
- HE Hein On Line
- JS JSTOR
- OA OAPEN books
- OB Open Book Publishers
- PM PubMed knjige
- SD Science Direct
- SP Springer
- WI Wiley

## Agregatori:

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- EB EBSCO
- FM Free Medical
- HE Hein On Line
- HW High Wire
- JS JSTOR
- MU Project MUSE
- TE TEEAL
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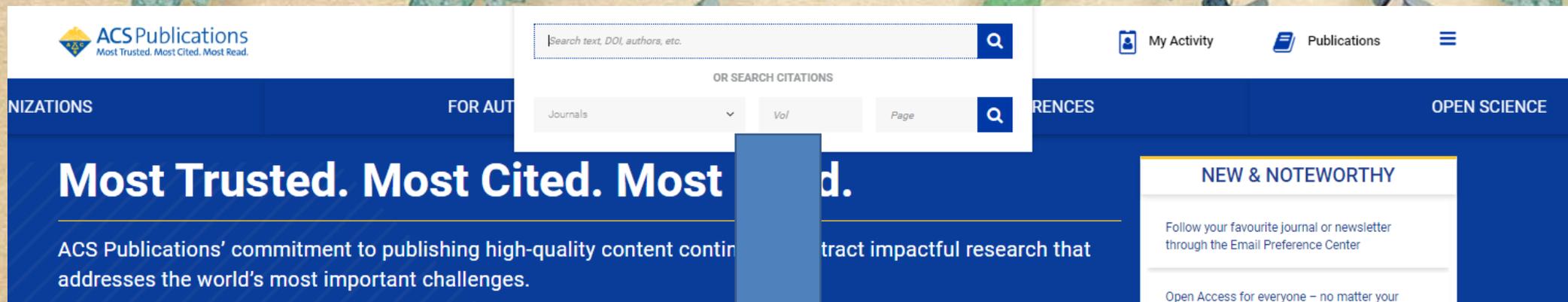
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- Just Accepted Manuscripts 61

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- Reference/Standard 2
- C&EN Article 1111
- Journal Article 40598

ARTICLE TYPE ^

- Research Article 36569

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Chapter  
**Modern Liquid Chromatography in Clinical Chemistry**

BARRY L. KARGER

Clinical Chemistry,  
Chapter 8, 1976, 226-247  
ACS Symposium Series, Volume 36  
DOI: 10.1021/bk-1976-0036.ch008  
Publication Date (Print): June 1, 1976

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Review Article	2605
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News	862
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Last Year	2490
Last 6 Months	1396
Last 3 Months	822
Last Month	390
Last Week	175

#### AUTHOR ▲

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

#### PUBLICATION ▲

Analytical Chemistry	8716
Journal of Agricultural and Food Chemistry	3673
The Journal of Organic Chemistry	2855
Journal of the American Chemical Society	2783
Journal of Medicinal Chemistry	2707
MORE (63) <span>▼</span>	

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Physical chemistry	14996
Inorganic chemistry	12114
Organic chemistry	11586
Cross-disciplinary concepts	10665
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21

Brief Report

6

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1 2 3 4 5 6 7 >

Article

## Separation Orthogonality in Liquid Chromatography–Mass Spectrometry for Proteomic Applications: Comparison of 16 Different Two-Dimensional Combinations

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

*Analytical Chemistry*, Articles ASAP (Article)

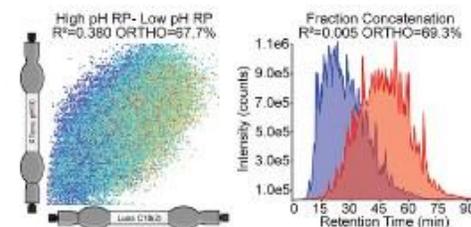
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DOI: 10.1021/acs.analchem.9b05407

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*Analytical Chemistry*, Articles ASAP (Article)

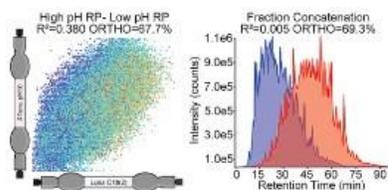
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Darien Yeung, Benilde Mizero, Daniel Gussakovsky, Nicole Klaassen, Ying Lao, Victor Spicer, and Oleg V. Krokhin\*

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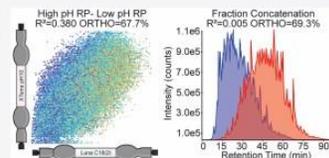
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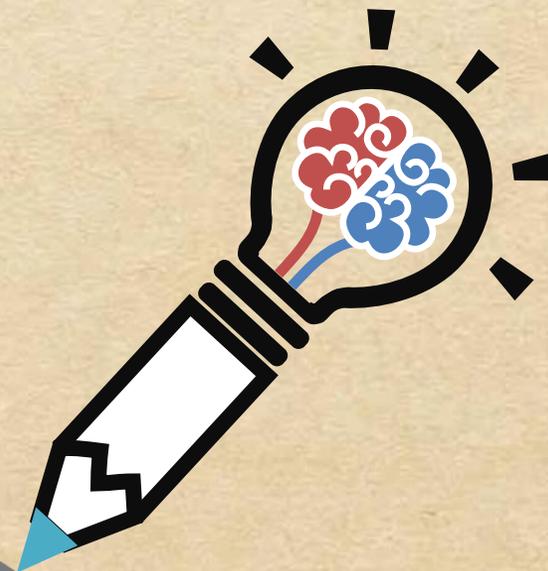
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**ABSTRACT:** Peptide separation orthogonality for 16 different 2D LC-ESI MS systems has been evaluated. To compare and contrast the behavior of the first dimension columns, a large proteomic retention data set of ~30 000 tryptic peptides was collected for each 2D pairing. The selection of the first dimension system was made to cover the most popular peptide separation modes applied in proteomics: reversed-phase (RP) separations with different pH, hydrophilic interaction liquid chromatography (HILIC), strong cation and anion exchange (SCX, SAX), and mixed-mode separations. The separation orthogonality generally increases in the order RP < SCX < HILIC < SAX, with the exception of high pH RP–low pH RP system, which showed the second best orthogonality value (68%), just behind PolySAX LP column (74%). The identification output of the 2D LC-MS/MS system is driven by both separation orthogonality and efficiency, making high pH RP the best choice for the first dimension separation. Its performance in combination with a standard C18 at acidic pH can be increased further through the application of pairwise fraction concatenation. The effect of the latter has been evaluated using *in silico* fraction concatenation, which has been proven to show improvement only for RP separations in the first dimension. Concatenation of two, three, and four–five fractions into one is shown to be the most effective for high pH RP and HFBA- and TFA-based C18 separations, respectively. We also suggest simple guidelines for the unbiased determination of dissimilarity for two separation dimensions and evaluate separation orthogonality in 3D LC-LC-MS separation space for all systems under investigation.



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

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Supporting Info (1) SUBJECTS: Hydrophobicity, Hydrophilicity, Proteomics, Peptides and proteins, Chromatography

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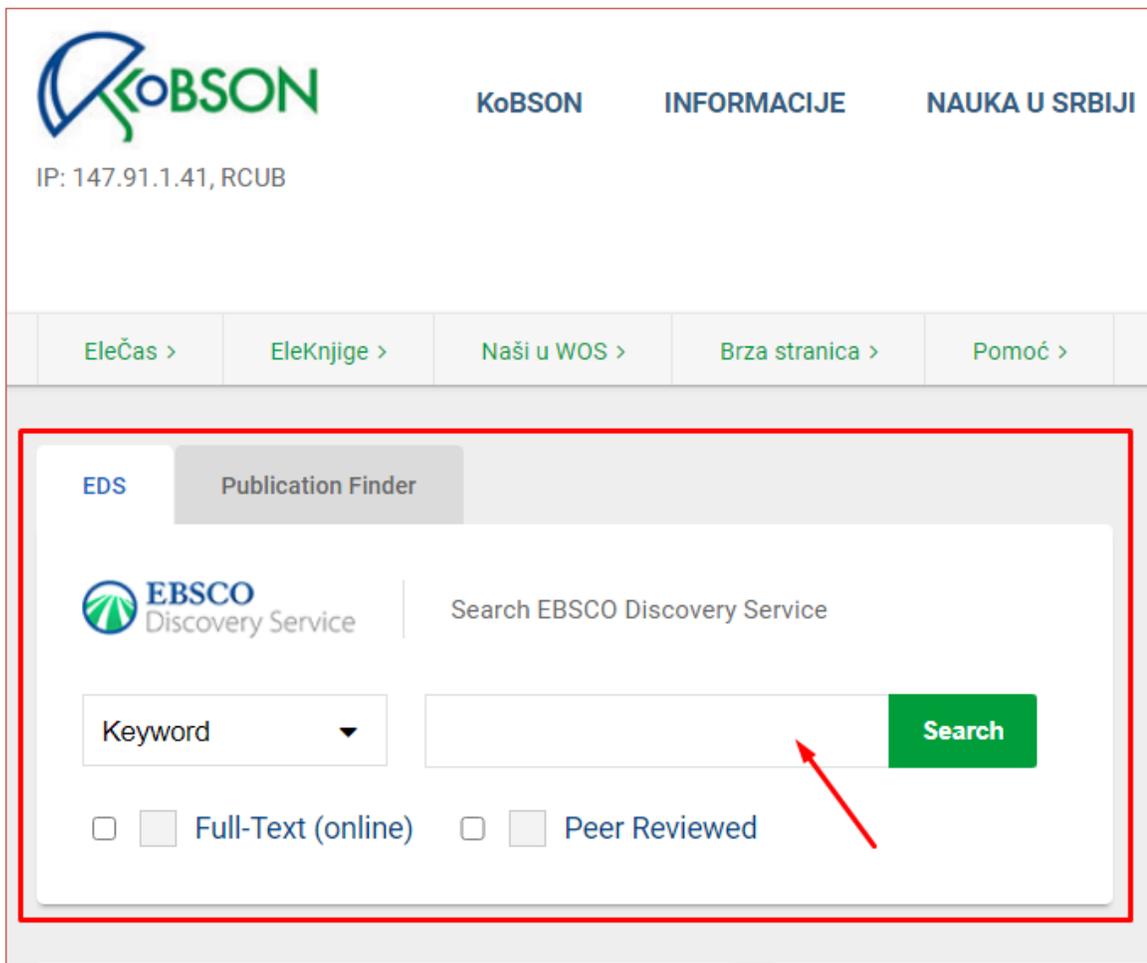
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**SUBJECTS:** Chromatography, Hydrophilicity, Hydrophobicity, Peptides and proteins, Proteomics

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1. Determination of picomolar levels of methylmercury complexes with low molecular mass thiols by liquid chromatography tandem mass spectrometry and online preconcentration



In: Analytical and Bioanalytical Chemistry. Springer Berlin/Heidelberg, 2020. Language: English, Database: SwePub

Methylmercury (MeHg) is one of the most potent neurotoxins. It is produced in nature through the methylation of inorganic divalent mercury (HgII) by phylogenetically diverse anaerobic microbes. T...

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

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Academic  
Journal

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...  
quantitative analysis; regulations; repeatability; separators; spices; surveillance; techniques; turmeric; **Europe**; **Europe**; European



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## 4. Simultaneous determination of twelve dyes in meat products: development and validation of an



Academic  
Journal

By: Iammarino, M.; Mentana, A.; Centonze, D.; Palermo, C.; Mangiacotti, M.; Chiaravalle, A. E.; Food **Chemistry**; 285 Oxford:Els...  
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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## Simultaneous determination of twelve dyes in meat products: development and validation of an analytical method based on HPLC-UV-diode array detection.

**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

**Broader Terms:** **Europe**

**Identifiers:** **analytical** techniques, Common Market, EC, EEC, European Communities, European Economic Communities, food colorants, methods

**CABICODES:** Techniques and Methodology (ZZ900)

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<b>AMA</b> (American Medical Assoc.)	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. <i>Food Chemistry</i> . 2019;285:1-9. <a href="http://search.ebscohost.com/login.aspx?direct=true&amp;db=lbh&amp;AN=20193207523&amp;site=eds-live">http://search.ebscohost.com/login.aspx?direct=true&amp;db=lbh&amp;AN=20193207523&amp;site=eds-live</a> . 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

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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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References

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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References

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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Works Cited

Iammarino, M., et al. "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, 2019, pp. 1–9. *EBSCOhost*, [search.ebscohost.com/login.aspx?direct=true&db=lbh&AN=20193207523&site=eds-live](http://search.ebscohost.com/login.aspx?direct=true&db=lbh&AN=20193207523&site=eds-live).

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References

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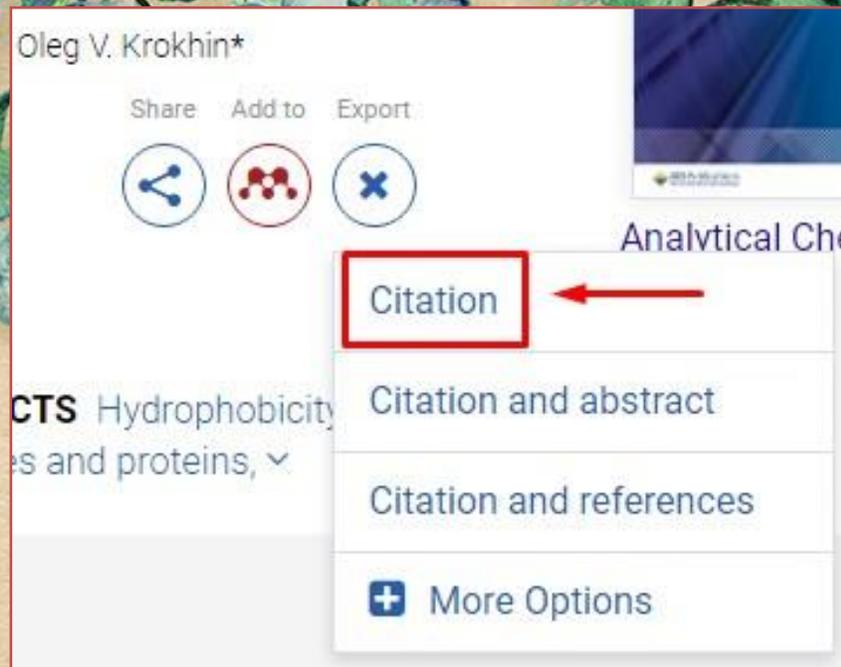
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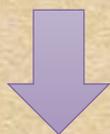
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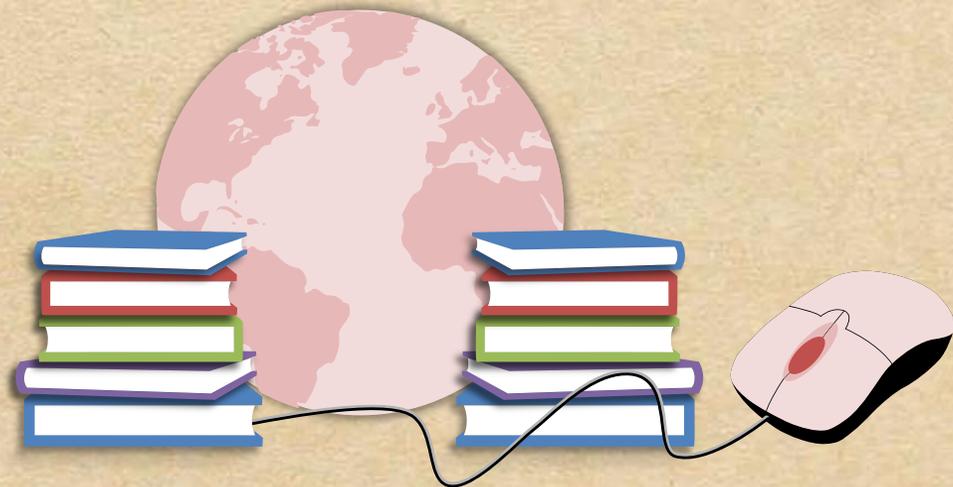
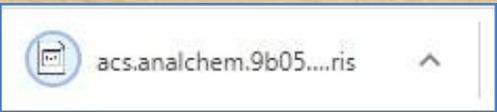
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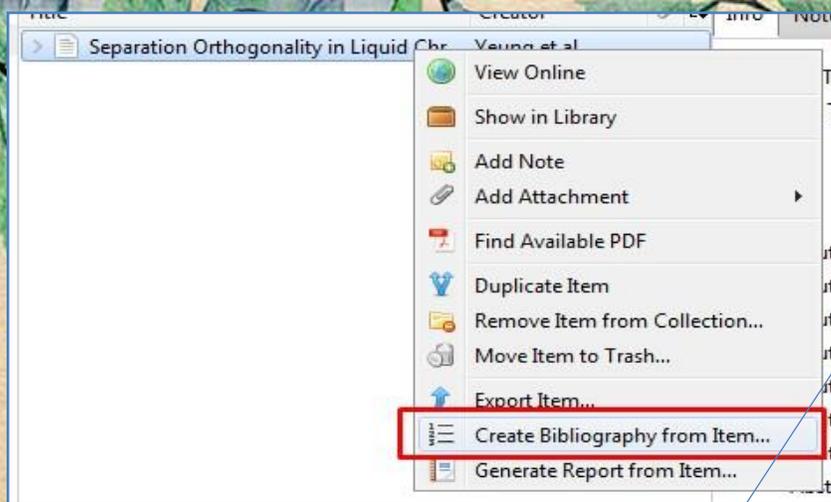
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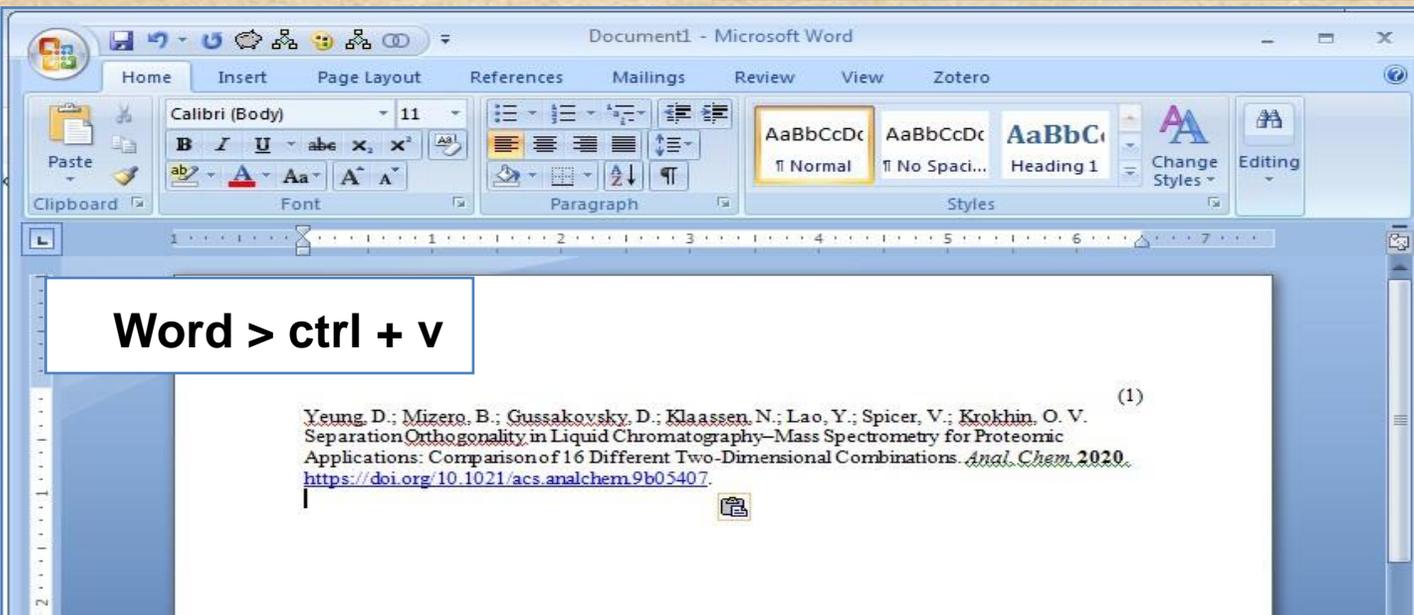
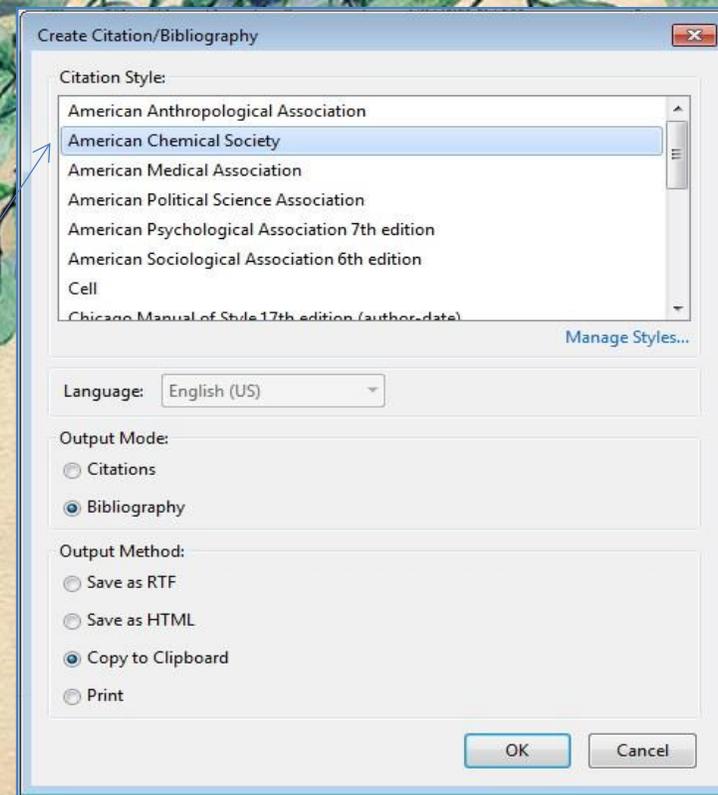
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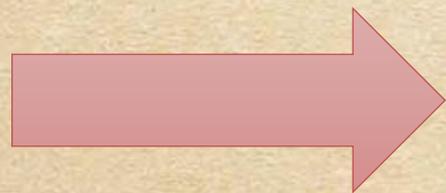
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(1) Dordević, I. S.; Popadić, M.; Sarvan, M.; Patković-Benazzou, M.; Janjić, G. V. Supramolecular Insight into the Substitution of Sulfur by Selenium, Based on Crystal Structures, Quantum-Chemical Calculations and Biosystem Recognition. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials* 2020, 76, 122–136. <https://doi.org/10.1107/S2052520619016287>.

(2) Šuković, D.; Knežević, B.; Gašić, U.; Sradojević, M.; Cirić, I.; Todić, S.; Mutić, J.; Tešić, Z. Phenolic Profiles of Leaves, Grapes and Wine of Grapevine Variety *Vranac* (*Vitis Vinifera* L.) from Montenegro. *Food* 2020, 9 (2). <https://doi.org/10.3390/foods9020138>.

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(9) Penušević, D. S.; Stevanović, N. R.; Kovačević, G. N.; Stanković, D. M.; Lolić, A. Đ.; Babić, R. M. Application of N,N'-Bis(Acetylacetonato)Propylenediimine Copper(II) Complex as Mediator for Glucose Biosensor. *ChemistrySelect* 2020, 5 (5), 1671–1675. <https://doi.org/10.1002/slct.201904873>.

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Екстерна апликација *Аутори, пројекти, публикације* (APP) омогућава преглед и претраживање података о ауторима и пројектима, пренос метаподатака у друге системе, интеграцију са сервисом *Altmetric* и приказ података о цитираности у индексним базама података *Dimensions*, *Scopus* и *Web of Science*.

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## Институције/групе

Изаберите институцију/групу

[Хемијски факултет](#)

[Иновациони центар](#)

## Најновије

[Synthesis and Biological Properties of Alanine-Grafted Hydroxyapatite Nanoparticles](#)

Dorm, Bruna Carolina; Iemma, Mônica Rosas Costa; Neto, Benedito Domingos; Francisco, Rauany Cristina Lopes; Dinić, Ivana; Ignjatović, Nenad; Marković, Smilja; Vuković, Marina; Škapin, Srečo; Trovatti, Eliane; Mančić, Lidija (Life, 2023)

[Quantum efficiency of up-converting SrGd<sub>2</sub>O<sub>4</sub>:Yb,Er nanoparticles](#)

Претраживање



## Комплетан репозиторијум

[Институције/групе](#)[Аутори](#)[Наслови](#)[Теме](#)

## Година издавања

[2020 - 2023 \(1575\)](#)[2010 - 2019 \(3120\)](#)[2000 - 2009 \(803\)](#)[1990 - 1999 \(164\)](#)[1982 - 1989 \(13\)](#)

## Тип документа

[Чланак у часопису \(3510\)](#)[Скуп података \(741\)](#)[Конференцијски прилог \(558\)](#)[Дипломски рад \(291\)](#)[Мастер/магистарски рад \(221\)](#)

# Репозиторијум Хемијског факултета - Cherry

## Институције:

- ❖ Хемијски факултет
- ❖ Иновациони центар

## Колекције у овој групи

Primarni podaci

Publikacije

## Подгрупе унутар ове групе

Projekti

## Колекције у овој групи

Doktorati

Master radovi

Pozitron

Primarni podaci

Publikacije

Tehnička rešenja

Završni radovi

# Начини претраге могући према:

## Година издавања

2020 - 2023 (1575)

2010 - 2019 (3120)

2000 - 2009 (803)

1990 - 1999 (164)

1982 - 1989 (13)

## Ниво доступности

Приступ са лозинком (2917)

Отворени приступ (2367)

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## Комплетан репозиторијум

Институције/групе

Аутори

Наслови

Теме

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Нерецензирана верзија (1)

## Тема

Cytotoxicity (73)

DFT (61)

Antimicrobial activity (56)

Antioxidant activity (55)

## Тип документа

Чланак у часопису (3510)

Скуп података (741)

Конференцијски прилог (558)

Дипломски рад (291)

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Polyhedron (55)

Journal of Coordination Chemistry (54)

Journal of Inorganic Biochemistry (51)

European Journal of Medicinal Chemistry (50)

Environmental Science and Pollution Research (48)

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## Authors

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Authority Key	Name Variants
orcid::0000-0003-2559-5234	<ul style="list-style-type: none"><li>• Ćirković-Veličković, Tanja (301)</li></ul>
orcid::0000-0001-7060-9055	<ul style="list-style-type: none"><li>• Tešević, Vele (299)</li></ul>
orcid::0000-0002-6067-2349	<ul style="list-style-type: none"><li>• Zarić, Snežana D. (254)</li></ul>
orcid::0000-0001-7465-1373	<ul style="list-style-type: none"><li>• Stanković, Dalibor (234)</li></ul>
orcid::0000-0002-5162-3123	<ul style="list-style-type: none"><li>• Tešić, Živoslav Lj. (225)</li></ul>
orcid::0000-0003-1388-6245	<ul style="list-style-type: none"><li>• Manojlović, Dragan D. (222)</li></ul>
orcid::0000-0001-6274-4222	<ul style="list-style-type: none"><li>• Milojković-Opsenica, Dušanka (211)</li></ul>
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orcid::0000-0002-8591-4391	<ul style="list-style-type: none"><li>• Gavrović-Jankulović, Marija (168)</li></ul>
orcid::0000-0003-1178-8326	<ul style="list-style-type: none"><li>• Anđelković, Katarina K. (156)</li></ul>
orcid::0000-0001-6426-3158	<ul style="list-style-type: none"><li>• Jovančićević, Branimir (149)</li></ul>



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



2018

[guzelmeric2017.pdf \(1.498Mb\)](#)

Аутори

Guzelmeric, 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

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

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

Напомена:

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- Претраживање
- Претрага за ову институцију

Комплетан ре

Институције

Аутори

Наслови

Теме

Ова институција

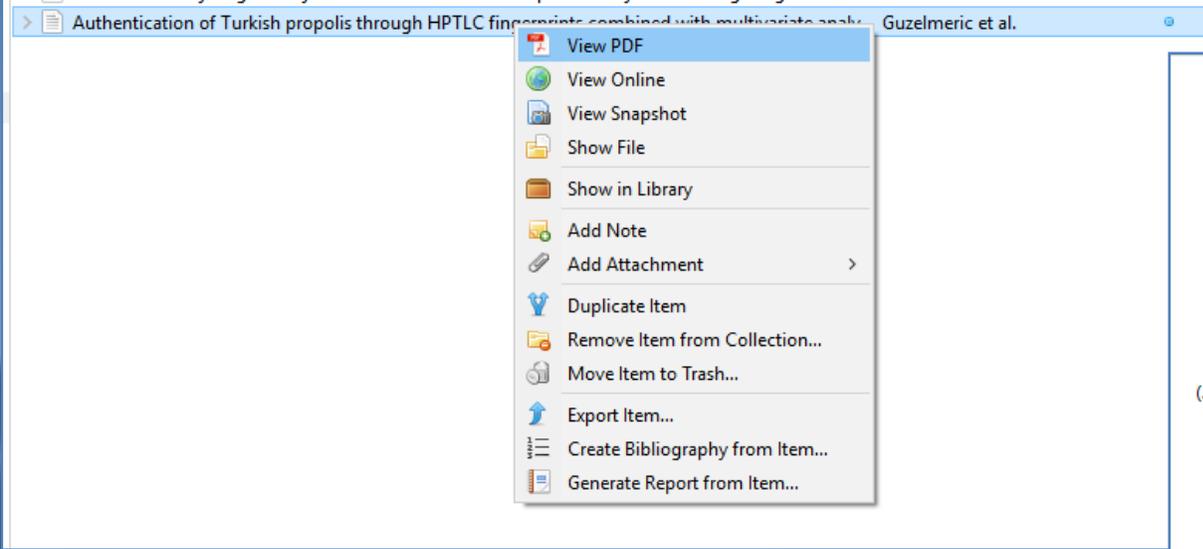
Аутори

Наслови

Теме

Сваки запис рада се кроз  
Zotero конектор може  
експортирати.





Item Type Journal Article

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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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