



Curriculum Vitae Europass

Informații personale

Nume / Prenume **Moț Augustin-Cătălin**

Adresa **Cluj-Napoca (România)**

Domeniu ocupațional **Cercetare științifică,
didactic învățământ superior**

Experiența profesională

Februarie 2025 – prezent	Conferențiar universitar abilitat (<i>Chemometrie, Chimie Analitică Avansată, Chimie Analitică Instrumentală</i>) Facultatea de Chimie și Inginerie Chimică, Univeristatea Babeș-Bolyai, Cluj-Napoca, România.
Iunie 2024 – prezent	Chimist analist (<i>Analize chimice probe apă, aer, probe biologice – HPLC-ICP-MS, GF-AAS, HG-QFAAS, FAAS</i>) Centrul de Mediu si Sanatate parte din grupul ALS, Cluj-Napoca, România.
Februarie 2017 – Februarie 2025	Lector universitar (<i>Chemometrie, Chimie Analitică Avansată, Chimie Analitică Instrumentală</i>) Facultatea de Chimie și Inginerie Chimică, Univeristatea Babeș-Bolyai, Cluj-Napoca, România.
Octombrie 2016 – August 2021 August 2022 – Mai 2024	Cercetător CS III, respectiv Cercetător CS II Departamentul de Fizică Moleculară și Biomoleculară, Institutul Național de Cercetare-Dezvoltare Tehnologii Izotopice și Moleculare, Cluj-Napoca, România
Septembrie 2020 – August 2022	Director proiect: <i>Biofortificare cu seleniu: se pot crește proprietățile anticolesterolice ale speciilor de Allium?</i> PN-III-P1-1.1-TE-2019-1396 (TE 82/2020,), Facultatea de Chimie și Inginerie Chimică, Str. Univeristatea Babeș-Bolyai, Cluj-Napoca, România.

Mai 2018 – Aprilie 2020	Director proiect: <i>Metode chemometrice avansate aplicate în metabolomica vegetală în condiții de stres hidric</i> , PN-III-P1-1.1-PD-2016-0121, Facultatea de Chimie și Inginerie Chimică, Universitatea Babeș-Bolyai, Cluj-Napoca, România.
Octombrie 2015 – Septembrie 2017	Director proiect: <i>Hemoglobine nonsimbiotice din plante cu implicare în răspunsuri asociate stresului</i> , PN-II-RU-TE-2014-4-2555, Facultatea de Chimie și Inginerie Chimică, Universitatea Babeș-Bolyai, Cluj-Napoca, România.
Noiembrie 2014 – Septembrie 2015	Cercetător științific , Ctr. PN-II- ID-PCE-2012-4-0488, 71/02.09.2013, Facultatea de Chimie și Inginerie Chimică, Universitatea Babeș-Bolyai, Cluj-Napoca, România.
Octombrie 2013 – Octombrie 2014	Cercetător postdoctoral , bursă Leibniz-DAAD, Institutul Leibniz de Biochimia Plantelor, Halle (Saale), Germania.
Iulie 2008 – Decembrie 2010; Mai 2011 – Octombrie 2013;	Asistent cercetare , Ctr. IDEI 107/2007; Ctr. PN II ID PCCE 2/140/2008, Facultatea de Chimie și Inginerie Chimică, Universitatea Babeș-Bolyai, Cluj-Napoca, România.
Ianuarie 2011 – Mai 2011	Stagiu mobilitate internațională , Institutul de Chimie din Leiden, Universitatea din Leiden, Leiden, Olanda.
Iulie 2008 – Octombrie 2008	Asistent cercetare – visiting , stagiu de cercetare (Prof. Dr. Donald Kurtz) în cadrul UTSA, University of Texas at San Antonio, Texas, USA.
Educație și formare	
Octombrie 2009 – Octombrie 2012	Doctorat în Chimie , calificativ Excelent, <i>Summa cum laude</i> Titlul: ‘Lacaza din <i>Sclerotinia sclerotiorum</i> laccase: caracterizare biochimică și aplicații’, Universitatea Babeș-Bolyai, Facultatea de Chimie și Inginerie Chimică, Cluj-Napoca.
Octombrie 2008 – Iunie 2009	Masterat în Chimie Metode moderne în controlul calității și evaluarea mediului, Universitatea Babeș-Bolyai, Facultatea de Chimie și Inginerie Chimică, Cluj-Napoca.
Octombrie 2004 – Iunie 2008	Studii nivel licență . Specializarea: Chimie Universitatea Babeș-Bolyai, Facultatea de Chimie și Inginerie Chimică, Cluj-Napoca.

Septembrie 2000 – Iunie 2004

Studii liceale. Specializarea: Științele naturii
Colegiul Național George Coșbuc, Năsăud, Bistrița-Năsăud

Aptitudini și competențe personale

Limbi străine cunoscute

Autoevaluare

Nivel european ()*

Engleză

Franceză

Greacă

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral			
C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat
B1	Utilizator independent	B2	Utilizator independent	A2	Utilizator elementar	A1	Utilizator elementar	B1	Utilizator independent
A2	Utilizator elementar	A1	Utilizator elementar	A1	Utilizator elementar	A1	Utilizator elementar	A1	Utilizator elementar

(*) [*Cadrului european comun de referință pentru limbi*](#)

Date scientometrice

- >90 articole științifice publicate în reviste cotate WoS
- Numărul total citări: >2800 (Google academic), >2100 (Scopus), >1700 (Web of Science)
- Indice Hirsch: 29 (Google academic), 26 (Scopus), 24 (Web of Science)
- 2 capitole carte, publicații internaționale
- Coautor la o carte pentru uzul studenților (266 pag.)
- >15 comunicări orale la conferințe internaționale;

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Lista de publicatii:

91. Alexandra Gande, Cezara Zagrean-Tuza, Eniko Covaci, Tiberiu Frentiu, Olivian Marincas, Emese Gal, Augustin C. Mot*, Unravelling the bridge of polyphenol composition and mineralomics in Se biofortified edible *Allium* species, **Journal of Food Composition and Analysis** 135 (2024) 106648. **Q2**
90. Augustin C. Mot, Ioana-Georgeta Grosu, Diana Bogdan, Xenia Filip, Anca Petran, Claudiu Filip*, Novel polydopamine-based composites with adjustable antioxidant activity, **Polymer** 307 (2024) 127233. **Q2**
89. Alexandra Ciorîță*, Sabina-Emanuela Erhan*, Maria Loredana Soran, Ildiko Lung, Augustin C. Mot, Sergiu Gabriel Macavei, Marcel Pârvu, Pharmacological potential of three berberine-containing plant extracts obtained from *Berberis vulgaris* L., *Mahonia aquifolium* (Pursh) Nutt., and *Phellodendron amurense* Rupr., **Biomedicines** 12 (2024) 1339. **Q1**
88. Ioana Andreea Barbu, Vlad Alexandru Toma*, Augustin C. Mot, Ana-Maria Vlase, Anca Butiuc-Keul, Marcel Pârvu, Chemical composition and antioxidant activity of six *Allium* extracts using protein-based biomimetic methods, **Antioxidants** 13 (2024) 1182. **Q1**
87. Cezara Zagrean-Tuza, Galaba Pato, Grigore Damian, Radu Silaghi-Dumitrescu, Augustin C. Mot*, Redox reactivity of nonsymbiotic phytoglobins towards nitrite, **Molecules** 29 (2024) 1200. **Q2**
86. Eszter Ruprecht*, Franz Essl, Augustin C. Mot, Beatrix Balaji, Thomas Kuhn, Annamaria Fenesi, Constantin Mardari, Zsombor Miholcsa, Ecological attributes promoting intra-continental range-expansion of a native annual forb triggered by intensified land-use, **Flora** 310 (2024) 152416. **Q2**
85. Irina Kacso, Ioana Bâldea, Maria Miclăuș, Augustin C. Mot, Remus Moldovan, Flavia Martin*, Ketoconazole-PAMAN dendrimer supramolecular complex for prolonged delivery by in vitro and in vivo studies, **Studia Universitatis Babes-Bolyai Chimia** 68 (2023) 137-154. **Q3-4**
84. Cristina Coman, Niculina Hădade, Szilárd Pesek, Radu Silaghi-Dumitrescu*, Augustin C. Mot, Removal and degradation of sodium diclofenac via radical-based mechanisms using *S. sclerotiorum* laccase, **Journal of Inorganic Biochemistry** 249 (2023) 112400. **Q1**
83. Sabina-Emanuela Erhan, Alina E Pârvu*, Alexandra Ciorîță, Ayu A Putri, Alexis J Villagrana Molina, Marcel Pârvu, Augustin C. Mot, Chemical composition and anti-inflammatory effect of *Phellodendron amurense* Rupr. stem bark extract, **Notulae Botanicae Horti Agrobotanici Cluj-Napoca** 51(3) (2023) 13306-13306. **Q3-4**
82. Augustin C. Mot, Cezara Zăgrean-Tuza, Costel Sârbu*, Fuzzy discriminant analysis of medicinal plant extracts according to their total content of phytochemicals and the antioxidant capacity, **Studia Universitatis Babes-Bolyai Chimia** 68(3) (2023) 19-34. **Q3-4**
81. Ioana-Georgeta Grosu, Augustin C. Mot, Xenia Filip, Claudiu Filip*, What is wrong with hyaluronic acid chemistry? A 15N/13C Solid-State NMR Re-Evaluation of Its Dopamine Conjugates, **Polymers** 15(13) (2023) 2825. **Q1**
80. Ioana Andreea Barbu, Alexandra Ciorîță, Rahela Carpa*, Augustin C. Mot, Anca Butiuc-Keul, Marcel Pârvu, Phytochemical characterization and antimicrobial activity of several *Allium* extracts, **Molecules** 28(10) (2023) 3980. **Q2**
79. Mariann-Kinga Arkosi, Augustin C. Mot, Iulia Lupan, Miruna Georgiana Ghinia Tegla, Radu Silaghi-Dumitrescu*, Selective attachment of polyethylene glycol to hemerythrin for potential use in blood substitutes, **The Protein Journal** 42 (2023) 374–382. **Q3-4**
78. Bogdan Bosca, Augustin C. Mot*, Novel simultaneous determination of alliin and allicin in *Allium* sp. using digital subtraction HPTLC, **Journal of Chromatography B** 1222 (2023) 123700. **Q2**
77. Anca E. Anghel, Ibolya Balazs, Augustin C. Mot*, Conventional versus Extended Standard Addition Method: Determination of capsaicinoids in topical creams by high-performance liquid chromatography – diode array detection (HPLC-DAD), **Analytical Letters** 56(2) (2023) 200-2015. **Q3-4**
76. Violeta Florina Scurtu, Doina Clapa, Loredana Florina Leopold, Floricuța Ranga, Ștefania D Iancu, Adrian Ionuț Cadiș, Vasile Coman, Sonia Ancuța Socaci, Augustin C. Mot, Cristina Coman*, Gadolinium accumulation and toxicity on *in vitro* grown *Stevia rebaudiana*: A case-study on gadobutrol, **International Journal of Molecular Sciences**, 23 (2022) 11368. **Q1**
75. Bogdan M. Bosca, Augustin C. Mot*, Chromatographic determination of total selenium in biofortified *Allium* sp. following piazselenol formation and micro-solid-phase extraction, **Molecules** 26 (2021) 6730. **Q2**
74. Teodora-Irina Adam-Bonci, Eduard-Alexandru Bonci*, Alina-Elena Pârvu, Andrei-Ioan Herdean, Augustin C. Mot, Marian Taulescu, Andrei Ungur, Raluca-Maria Pop, Corina Bocșan, Alexandru Irimie, Vitamin D supplementation: Oxidative stress modulation in a mouse model of ovalbumin-induced acute asthmatic airway inflammation, **International Journal of Molecular Sciences**, 22 (2021) 7089. **Q1**
73. Bogdan M Boșca, Augustin C. Mot*, Development of a non-destructive method for determination of pH of paper artifacts using diffuse reflectance spectroscopy and regression analysis, **Studia Universitatis Babes-Bolyai, Chimia**, 66 (2021) 127-136. **Q3-4**

72. Alexandra Ciorîță*, Cezara Zăgrean-Tuza, Augustin C. Moț, Rahela Carpa, Marcel Pârvu, The phytochemical analysis of *Vinca L.* species leaf extracts is correlated with the antioxidant, antibacterial, and antitumor effects, **Molecules**, 26 (2021) 3040-3061. Q2
71. Lucia Chirita, Eniko Covaci, Augustin C. Moț, Michaela Ponta, Alexandra Gande, Tiberiu Frentiu*, Determination of selenium in food and environmental samples by hydride generation high-resolution continuum source quartz furnace atomic absorption spectrometry, **Journal of Analytical Atomic Spectrometry**, 36 (2021) 267-272. Q1
70. Valentin Florian Rauca, Laura Patras, Lavinia Luput, Emilia Licarete, Vlad Alexandru Toma, Alina Porfire, Augustin C. Moț, Elena Rakosy-Tican, Alina Sesarman*, Manuela Banciu, Remodeling tumor microenvironment by liposomal co-delivery of DMXAA and simvastatin inhibits malignant melanoma progression, **Scientific Reports**, 11 (2021) 1-15. Q1
69. Adrian Bogdan Țigu*, Cristian Silviu Moldovan, Vlad-Alexandru Toma, Anca Daniela Farcaș, Augustin C. Moț, Ancuța Jurj, Eva Fischer-Fodor, Cristina Mircea, Marcel Pârvu*, Phytochemical analysis and *in vitro* effects of *Allium fistulosum L.* and *Allium sativum L.* extracts on human normal and tumor cell lines: A comparative study, **Molecules**, 26 (2021) 574. Q2
68. Eugen Claudiu Jurco, Grigore Onaciu, Sorin Suci, Ancuta Nadia Jurco*, Augustin C. Moț, Simona Gabriela Jurco, Prewaning growth performances of Aberdeen Angus calves, **Romanian Biotechnological Letters** 25 (2020) 1969-1976. Q3-4
67. Alexandrina Guidea, Augustin C. Moț, Costel Sârbu*, Comprehensive assessment of antioxidant and chelating capacity of some biogenic amines and related drugs, **Studia Universitatis Babes-Bolyai, Chemia**, 65 (2020) 101-117. Q3-4
66. Alexandrina Guidea, Cezara Zăgrean-Tuza, Augustin C. Moț*, Costel Sârbu, Comprehensive evaluation of radical scavenging, reducing power and chelating capacity of free proteinogenic amino acids using spectroscopic assays and multivariate exploratory techniques, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, 233 (2020) 118158. Q1
65. Anca D Farcaș, Cezara Zăgrean-Tuza, Laurian Vlase, Ana Gheldiu, Marcel Parvu, Augustin C. Moț*, EPR fingerprinting and antioxidant response of four selected *Plantago* species, **Studia Universitatis Babes-Bolyai, Chemia**, 65 (2020) 209-220. Q3-4
64. Maria Lehene, Eva Fischer-Fodor, Florina Scurtu, Niculina D Hădăde, Emese Gal, Augustin C. Moț, Alina Matei, Radu Silaghi-Dumitrescu*, excess ascorbate is a chemical stress agent against proteins and cells, **Pharmaceuticals**, 13 (2020) 107. Q1
63. Vasile Surduc, Emanoil Surduc, Camelia Neamtu, Augustin C. Moț, Alexandra Ciorîță*, effects of long-term exposure to low-power 915 MHz unmodulated radiation on *Phaseolus vulgaris L.*, **Bioelectromagnetics**, 41 (2020) 200-212. Q2
62. Augustin C. Moț*, Cristina Coman, Niculina Hadade, Grigore Damian, Radu Silaghi-Dumitrescu, Hendrik Heering, "Yellow" laccase from *Sclerotinia sclerotiorum* is a blue laccase that enhances its substrate affinity by forming a reversible tyrosyl-product adduct, **PloS one**, 15 (2020) e0225530. Q2
61. Ileana M Simion, Augustin C. Moț, Costel Sârbu*, Finding specific peaks (markers) using fuzzy divisive hierarchical associative-clustering based on the chromatographic profiles of medicinal plant extracts obtained at various wavelengths, **Analytical Methods**, 12 (2020) 3260-3267. Q2
60. Cezara Zagrean-Tuza, Augustin C. Moț*, Tomasz Chmiel*, Attila Bende, Ioan Turcu*, Sugar matters: Sugar moieties as reactivity-tuning factors in quercetin O-glycosides, **Food & Function**, 11 (2020) 5293-5307. Q1
59. Ileana M Simion, Augustin C. Moț, Radu D Găceanu, Horia F Pop, Costel Sârbu*, Characterization and classification of medicinal plant extracts according to their antioxidant activity using high-performance liquid chromatography and multivariate analysis, **Studia Universitatis Babes-Bolyai, Chemia**, 65 (2020) 71-82. Q3-4
58. Adrian Bogdan Țigu, Vlad-Alexandru Toma, Augustin C. Moț, Ancuța Jurj, Cristian Silviu Moldovan, Eva Fischer-Fodor, Ioana Berindan-Neagoe, Marcel Pârvu*, The synergistic antitumor effect of 5-fluorouracil combined with allicin against lung and colorectal carcinoma cells, **Molecules**, 25 (2020) 1947. Q2
57. Eniko Covaci, Marin Senila, Loredana Florina Leopold, Neli-Kinga Olah, Codruta Cobzac, Violeta Ivanova-Petropulos, Biljana Balabanova, Oana Cadar, Anca Becze, Michaela Ponta, Augustin C. Moț, Tiberiu Frentiu*, Characterization of *Lycium barbarum L.* berry cultivated in North Macedonia: A chemometric approach, **Journal of Berry Research**, 10 (2020) 223-241. Q2
56. Olga Hilda Orasan*, Flaviu Muresan, Augustin C. Moț, Adela Sitar Taut, Iulia Minciuna, Sorina Cezara Coste, Vasile Negrean, Remus Aurel Orasan, Angela Cozma, Hemodialysis patients with pruritus and insomnia have increased risk of death, **Blood purification**, 49 (2020) 419-425. Q3-4
55. Cezara Zagrean-Tuza, Sorin Dorneanu, Augustin C. Moț*, The strange case of polyphenols inhibiting the Briggs-Rauscher reaction: pH-modulated reactivity of the superoxide radical, **Free Radical Biology and Medicine**, 146 (2020) 189-197. Q1

54. Anca D Farcas, Augustin C. Mot*, Cezara Zagrean-Tuza, Madalina Ticolea, Bogdan Sevastre, Muhittin Kulak, Radu Silaghi-Dumitrescu, Alina Parvu, Remarkable rutin-rich *Hypericum capitatum* extract exhibits anti-inflammatory effects on turpentine oil-induced inflammation in rats, **BMC complementary and alternative medicine**, 19 (2019) 1-13. Q1
53. Anca D Farcas, Augustin C. Mot*, Alina E Pârvu, Vlad Al Toma, Mirel A Popa, Maria C Mihai, Bogdan Sevastre, Ioana Roman, Laurian Vlase, Marcel Pârvu, in vivo pharmacological and anti-inflammatory evaluation of xerophyte *Plantago sempervirens* Crantz, **Oxidative medicine and cellular longevity**, 2019 (2019) 1-13. Q2
52. Augustin C. Mot*, Cristina Puscas, Sorin Aurel Dorneanu, Radu Silaghi-Dumitrescu*, EPR detection of sulfanyl radical during sulfhemoglobin formation–influence of catalase, **Free Radical Biology and Medicine**, 137 (2019) 110-115. Q1
51. Marcel Pârvu*, Augustin C. Mot, Alina E Pârvu, Cristina Mircea, Leander Stoeber, Oana Roșca-Casian, Adrian B Țigu, *Allium sativum* extract chemical composition, antioxidant activity and antifungal effect against *Meyerozyma guilliermondii* and *Rhodotorula mucilaginosa* causing onychomycosis, **Molecules**, 24 (2019) 3958. Q2
50. Alina-Mariana Crainic, Augustin C. Mot, Radu Silaghi-Dumitrescu*, Isolation, purification and characterization of ascorbate oxidase and peroxidase from *Cucurbita pepo medullosa*, **Studia Universitatis Babeș-Bolyai Chemia**, 64 (2019) 49-60. Q3-4
49. Augustin C. Mot*, Cristina Puscas, Patricia Miclea, Galaba Naumova-Letia, Sorin Dorneanu, Dorina Podar, Nico Dissmeyer, Radu Silaghi-Dumitrescu*, Redox control and autoxidation of class 1, 2 and 3 phytooglobins from *Arabidopsis thaliana*, **Scientific Reports**, 8, (2018), e113714. Q1
48. Augustin C. Mot, Cristina Bischin, Grigore Damian, Amr A. A. Attia, Emese Gal, Nicoleta Dina, Nicolae Leopold, Radu Silaghi-Dumitrescu*, Fe(III) – Sulfide interaction in globins: Characterization and quest for a putative Fe(IV)-sulfide species, **Journal of Inorganic Biochemistry**, 179 (2018) 32-39. Q1
47. Augustin C. Mot, Erik Prell, Maria Klecker, Christin Naumann, Frederik Faden, Bernhard Westermann, Nico Dissmeyer*, Real-time detection of N-end rule-mediated ubiquitination via fluorescently labeled substrate probes, **New Phytologist**, 217 (2018) 613-624. Q1
46. Anca D. Farcas, Augustin C. Mot*, Cezara Zagrean-Tuza, Vlad Toma, Claudia Cimpoi, Anamaria Hosu, Marcel Parvu, Ioana Roman*, Radu Silaghi-Dumitrescu, Chemo-mapping and biochemical-modulatory and antioxidant/prooxidant effect of *Galium verum* extract during acute restraint and dark stress in female rats, **PlosOne**, (2018), e0200022. Q2
45. Denisa Hathazi, Florina Scurtu, Cristina Bischin, Augustin C. Mot, Amr A. A. Attia, Jacob Kongsted, Radu Silaghi-Dumitrescu*, The reaction of oxy hemoglobin with nitrite: Mechanism, antioxidant-modulated effect, and implications for blood substitute evaluation, **Molecules**, 23 (2018), e350. Q2
44. Sanja Kostadinovic Velickovska*, Augustin C. Mot, Sasa Mitrev Rubin Gulaboski, Ludger Bruhl, Hamed Mirhosseini, Radu Silaghi-Dumitrescu, Bertrand Matthaus, Bioactive compounds and *in vitro* antioxidant activity of some traditional and non-traditional cold-pressed edible oils from Macedonia, **Journal of Food Science and Technology**, 55 (2018) 1614–1623. Q2
43. Cristina Puscas, Luana Radu, Francisco Carrascoza, Augustin C. Mot, Diana Amariei, Oana Lungu, Florina Scurtu, Paula Podea, Raluca Septelean, Alina Matei, Mihaela Mic, Amr. A. Attia, Radu Silaghi-Dumitrescu*, The high affinity of small-molecule antioxidants for hemoglobin, **Free Radical Biology and Medicine**, 124 (2018) 260-274. Q1
42. Andra-Diana Andreicut, Alina Elena Pârvu*, Augustin C. Mot, Marcel Pârvu, Eva Fischer Fodor, Adriana Florinela Cătoi, Vasile Feldrihan, Mihai Cekan, Alexandru Irimie, Phytochemical analysis of anti-inflammatory and antioxidant effects of *Mahonia aquifolium* flower and fruit extracts, **Oxidative Medicine and Cellular Longevity**, (2018), e2879793. Q2
41. Andra-Diana Andreicuț, Alina Elena Pârvu*, Augustin C. Mot, Marcel Pârvu, Eva Fischer-Fodor, Vasile Feldrihan, Adriana Florinela Cătoi, Mihai Cekan, Alexandru Irimie, Anti-inflammatory and antioxidant effects of *Mahonia aquifolium* leaves and bark extracts, **Farmacia** 66 (2018) 49-58. Q3-4
40. Daniela Hanganu, Daniela Benedec*, Laurian Vlase, Neli Olah, Grigore Damian, Radu Silaghi-Dumitrescu, Augustin C. Mot, Claudia Crina Toma, Polyphenolic profile and antioxidant and antibacterial activities from two *Trifolium species*, **Farmacia**, 65 (2017) 449-453. Q3-4
39. Cristina Bischin, Augustin C. Mot, Andrei Stefanu Nicolae Leopold Denisa Hathazi, Grigore Damian Radu Silaghi-Dumitrescu*, Chlorite reactivity with myoglobin: Analogy with peroxide and nitrite chemistry?, **Journal of Inorganic Biochemistry**, 172 (2017) 122-128. Q1
38. Augustin C. Mot, Parvu Marcel*, Parvu Alina, Rosca-Casian Oana, Dina Nicoleta, Leopold Nicolae, Silaghi-Dumitrescu Radu, Mircea Cristina, Reversible naftifine-induced carotenoid depigmentation in *Rhodotorula mucilaginosa* (A. Jörg.) F.C. Harrison causing onychomycosis, **Scientific Reports**, 7 (2017) e11125. Q1

37. Galaba Naumova-Letia, Augustin C. Mot*, Probing reducing power for ferryl phytooglobins of several phenolic compounds using their kinetic profiles assisted by chemometric methods, **Studia Universitatis Babes-Bolyai Chemia** 62 (2017) 49-66. Q3-4
36. Paulo T. Miotto*, Marta R. Ruiz, Augustin C. Mot, Rafael Zuccarelli, Francisco J. Corpas, Luciano Freschi, Helenice Mercier, Alternative fluorimetric-based method to detect and quantify total S-nitrosothiols in plants, **Nitric oxide-Biology and Chemistry**, 68 (2017) 7-13. Q1
35. Bernadett Porteka, Augustin C. Mot, Claudia Cimpoiu, Anamaria Hosu, Cristina Bischin, Grigore Damian, Eva Fisher-Fodor, Radu, Silaghi-Dumitrescu*, Selective protective effect of antioxidant-rich *Rumex acetosa* extracts, **Revista de Chimie** 67 (2016) 833-837. Q3-4
34. Augustin C. Mot, Cristina Bischin*, Bianca Muresan, Marcel Parvu, Grigore Damian, Laurian Vlase, Radu Silaghi-Dumitrescu, Antioxidant activity evaluation by physiologically relevant assays based on haemoglobin peroxidase activity and cytochrome c-induced oxidation of liposomes, **Natural Product Research** 30 (2016) 1315-1318. Q2
33. Radu Tamaian, Augustin C. Mot*, Radu Silaghi-Dumitrescu, I. Ionuț, A. Stana, O. Oniga, C. Nastasa, D. Benedec, Brandusa Tiperciuc, Study of the relationships between the structure, lipophilicity and biological activity of some thiazolyl-carbonyl-thiosemicarbazides and thiazolyl-azoles, **Molecules** 20 (2015) 22188-22201. Q2
32. Aniela Saplontai-Pop*, Augustin C. Mot*, Marioara Moldovan, Radu Oprean, Radu Silaghi-Dumitrescu, Olga Orășan, Marcel Pârvu, Emese Gal, Corina Ionescu, Testing antiplatelet and antioxidant activity of the extract of seven varieties of *Allium cepa* L., **Open Life Sciences** 10 (2015) 89-98. Q3-4
31. Denisa Hathazi, Augustin C. Mot, Anetta Vaida, Florina Scurtu, Iulia Lupan, Eva Fischer-Fodor, Grigore Damian, Donald M. Kurtz, Radu Silaghi-Dumitrescu*, Oxidative protection of hemoglobin and hemerythrin by cross-linking with a nonheme iron peroxidase: Potentially improved oxygen carriers for use in blood substitutes, **Biomacromolecules** 15 (2014) 1920-1927. Q1
30. Alina Parvu*, Marcel Parvu, Laurian Vlase, Patricia Miclea, Augustin C. Mot, Radu Silaghi-Dumitrescu, Anti-inflammatory effects of *Allium schoenoprasum* L. leaves., **Journal of Physiology and Pharmacology** 65 (2014) 309-315. Q2
29. Laurian Vlase, Daniela Benedec*, Daniela Hanganu*, Grigore Damian, Ioan Csillag, Bogdan Sevastre, Augustin C. Mot, Radu Silaghi-Dumitrescu, Ioan Tilea, Evaluation of antioxidant and antimicrobial activities and phenolic profile for *Hyssopus officinalis*, *Ocimum basilicum* and *Teucrium chamaedrys*, **Molecules** 19 (2014) 5490-5507. Q2
28. Daniela Benedec, Iliora Oniga, Bianca Muresan, Augustin C. Mot, Grigore Damian, Adriana Nistor, Radu Silaghi-Dumitrescu*, Daniela Hanganu, Mihaela Duma, Laurian Vlase, Contrast between water- and ethanol-based antioxidant assays: Aspen (*Populus tremula*) and black poplar (*Populus nigra*) extracts as a case study, **Journal of Food Quality** 37 (2014) 259-267. Q3-4
27. Istvan M. Takacs, Augustin C. Mot, Radu Silaghi-Dumitrescu, Grigore Damian*, EPR investigation of libration motion of spin labeled hemerythrin, **Journal of Molecular Structure** 1073 (2014) 18-23. Q3-4
26. Augustin C. Mot*, Cristina Coman, Carmen Miron, Grigore Damian, Costel Sarbu, Radu Silaghi-Dumitrescu*, An assay for pro-oxidant reactivity based on phenoxyl radicals generated by laccase, **Food Chemistry** 143 (2014) 214-222. Q1
25. Florina Violeta Scurtu, Augustin C. Mot, Radu Silaghi-Dumitrescu*, Protein-Based Blood Substitutes: Recent Attempts at Controlling Pro-Oxidant Reactivity with and Beyond Hemoglobin. **Pharmaceuticals** 6 (2013) 867-880. Q1
24. Daniela Benedec, Laurian Vlase*, Ioana Oniga, Augustin C. Mot, Radu Silaghi-Dumitrescu, Daniela Hanganu, Brindusa Tiperciuc, LC-MS analysis and antioxidant activity of phenolics compounds from two indigenous species of *Mentha*. Note I. **Farmacia** 61 (2013) 262-267. Q3-4
23. Istvan M. Takacs, Augustin C. Mot, Radu Silaghi-Dumitrescu, Grigore Damian*, Site directed spin labeling of hemerythrin and hemoglobin, **Studia Universitatis Babes-Bolyai Chemia** 58 (2013) 61-69. Q3-4
22. Cristina Coman, Augustin C. Mot*, Emese Gal, Marcel Pârvu, Radu Silaghi-Dumitrescu, Laccase is upregulated via stress pathways in the phytopathogenic fungus *Sclerotinia sclerotiorum*, **Fungal Biology** 117 (2013) 528-539. Q2
21. Daniela Benedec, Laurian Vlase, Ioana Oniga, Augustin C. Mot, Grigore Damian, Daniela Hanganu*, Mihaela Duma, Radu Silaghi-Dumitrescu, Polyphenolic composition, antioxidant and antibacterial activities for two Romanian subspecies of *Achillea distans* Waldst. et Kit. ex Willd., **Molecules**, 18 (2013) 8725-8739. Q3-4
20. Jean de Dieu Tamokou, Jean Rodolphe Chouna, Eva Fischer-Fodor, Gabriela Chereches, Otilia Barbos, Grigore Damian, Daniela Benedec, Mihaela Duma, Alango Pépin Nkeng Efouet, Hippolyte Kamdem Wabo, Jules Roger Kuate, Augustin C. Mot*, Radu Silaghi-Dumitrescu*, Anticancer and antimicrobial activities of some antioxidant-rich Cameroonian medicinal plants, **PLOS One**, (2013) 8: e55880. Q1

19. Augustin C. Mot, Radu Silaghi-Dumitrescu*, Laccases: Complex architectures for one-electron oxidations, **Biochemistry (Moscow)**, 77 (2012) 1395-1407. Q3-4
18. Imre Anamaria, Augustin C. Mot, Radu Silaghi-Dumitrescu*, Exploring the possibility of high-valent copper in models of copper proteins with a three-histidine copper-binding motif, **Central European Journal of Chemistry**, 10 (2012) 1527-1533. Q3-4
17. Augustin C. Mot, Marcel Pârvu, Grigore Damian, Florin D. Irimie, Zsuzsana Darula, Katalin F. Medzihradszky, Balazs Brem, Radu Silaghi-Dumitrescu*, A “yellow” laccase with “blue” spectroscopic features, from *Sclerotinia sclerotiorum*, **Process Biochemistry**, 47 (2012) 968-975. Q1
16. Augustin C. Mot, Sergei A. Syrbu, Sergei V. Makarov, Grigore Damian, Radu Silaghi-Dumitrescu*, Axial ligation in water-soluble copper porphyrinates: Contrasts between EPR and UV-vis, **Inorganic Chemistry Communications**, 18 (2012) 1-3. Q2
15. Alexandru Lupan, Csongor Matyas, Augustin C. Mot, Radu Silaghi-Dumitrescu*, Can geometrical distortions make a laccase change color from blue to yellow?, **Studia Universitatis Babes-Bolyai Chemia** 56 (2011) 231-238. Q3-4
14. Costel Sarbu*, Augustin C. Mot, Ecosystem discrimination and fingerprinting of Romanian propolis by hierarchical fuzzy clustering and image analysis of TLC patterns, **Talanta** 85 (2011) 1112– 1117. Q1
13. Eva Fischer-Fodor, Augustin C. Mot, Florina Deac, Marian Arkosi, Radu Silaghi-Dumitrescu*, Towards hemerythrin-based blood substitutes: Comparative performance to hemoglobin on human leukocytes and umbilical vein endothelial cells, **Journal of Bioscience**, 36 (2011) 215–221. Q2
12. Augustin C. Mot*, Radu Silaghi-Dumitrescu, Costel Sarbu, Rapid and effective evaluation of the antioxidant capacity of propolis extracts using DPPH bleaching kinetic profiles, FT-IR and UV-vis spectroscopic data, **Journal of Food Composition and Analysis**, 24 (2011) 516-522. Q1
11. Oana Zolog, Augustin C. Mot, Florina Deac, Alina Roman, Eva Fischer-Fodor, Radu Silaghi-Dumitrescu*, A new polyethyleneglycol-derivatized hemoglobin derivative with decreased oxygen affinity and limited toxicity, **The Protein Journal**, 30 (2011) 27-31. Q3-4
10. Augustin C. Mot, Alina Roman, Iulia Lupan, Donald M. Kurtz, Radu L. Silaghi-Dumitrescu*, Towards the development of hemerythrin-based blood substitutes, **The Protein Journal**, 29 (2010) 387-393. Q3-4
9. Augustin C. Mot, Zoltan Kis, Dimitri A. Svistunenko, Grigore Damian, Radu Silaghi-Dumitrescu*, Sergei V. Makarov, ‘Super-reduced’ iron under physiologically-relevant conditions, **Dalton Transactions**, 39 (2010) 1464-1466. Q1
8. Florin Soponar, Augustin C. Mot, Costel Sârbu*, High-performance thin-layer chromatography and three-dimensional image analysis for the determination of rutin in pharmaceutical preparations, **Journal of AOAC International**, 93 (2010) 1-7. Q2
7. Augustin C. Mot, Florin Soponar, Andrei Medvedovici, Costel Sârbu*, Simultaneous spectrophotometric determination of aspirin, paracetamol, caffeine and chlorphenamine from pharmaceutical formulations using multivariate regression methods, **Analytical Letters**, 43 (2010) 804-813. Q3-4
6. Augustin C. Mot, Florin Soponar Costel Sârbu*, Multivariate analysis of reflectance spectra from propolis: Geographical variation in Romanian samples, **Talanta** 81 (2010) 1010-1015. Q1
5. Augustin C. Mot, Grigore Damian, Costel Sarbu, Radu Silaghi-Dumitrescu*, Redox reactivity in propolis: Direct detection of free radicals in basic medium and interaction with hemoglobin, **Redox Report**, 14 (2009) 267-274. Q3-4
4. Augustin C. Mot, Florin Soponar, Dorina Casoni, Codruta S. Cobzac, Costel Sarbu*, Simultaneous spectrophotometric determination of some food dyes from mixtures using Principal Component Regression, **Revista de Chimie**, 60 (2009) 647-652. Q3-4
3. Falk Hillmann, Oliver Riebe, Ralf-Jörg Fischer, Augustin C. Mot, Jonathan D. Caranto, Donald M. Kurtz Jr., Hubert Bahl*, Reductive dioxygen scavenging by flavo-diiron proteins of *Clostridium acetobutylicum*, **FEBS Letters**, 583 (2009) 241-245. Q2
2. Florin Soponar, Augustin C. Mot, Costel Sârbu*, Quantitative evaluation of paracetamol and caffeine from pharmaceutical preparations using image analysis and RP-TLC, **Chromatographia**, 69 (2009) 151-155. Q3-4
1. Florin Soponar, Augustin C. Mot, Costel Sârbu*, Quantitative determination of some food dyes using digital processing of images obtained by thin-layer chromatography, **Journal of Chromatography A**, 1188 (2008) 295-300. Q1