

UNIVERSITATEA POLITEHNICA DIN BUCUREȘTI

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE PREZENTARE LA CONCURS

Candidat: Adina Ionuța GAVRILĂ

Post Nr. 16, Conferențiar, Departamentul de BIORESURSE ȘI ȘTIINȚA POLIMERILOR, Facultatea de CHIMIE APLICATĂ ȘI ȘTIINȚA MATERIALELOR

Condiții	Îndeplinire condiții	
A. Doctor	Diploma de Doctor în domeniul INGINERIE CHIMICĂ , nr 122 din 18.09.2006 , emisă de Universitatea POLITEHNICA din București	
B. Îndeplinirea standardelor minime naționale conform OMECTS nr. 6560/20.12.2012; MO, I, 890 și 890bis/27.12.2012;	Standarde indeplinite, conform Comisiei CNATDCU Nr. 8, Comisia Inginerie Chimică, Inginerie Medicală, Știința Materialelor și Nanomateriale Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate:	
Condiții minimale [Punctaj]	Minim prevăzut	Realizat
Număr total de articole ISI (NT)	15	15
Număr articole în reviste ISI la care candidatul este autor principal (NP)	6	7
Factor de impact cumulat (FIC)	9	10.390
Număr total de citări (NC)	20	35
C. Atestarea studiilor (diploma + Foi Matricole) și a altor realizari profesionale	Diploma de Licență , în domeniul <i>Chimie</i> , specializarea <i>Petrochimie și Carbochimie</i> , Nr. 1807 din 21.07.1994 emisă de Universitatea POLITEHNICA București Foaie matricolă copie după Registrul matricol vol. 68 A nr. 12487	
	Diplomă de Studii Aprofundate , în domeniul <i>Chimie</i> , specializarea <i>Coloranți cu utilizari neconvenționale și agenți tensioactivi</i> , Nr. 1410 din 20.07.2000 emisă de Universitatea POLITEHNICA București Foaie matricolă copie după Registrul matricol vol. 3 nr. 370	
	Certificat de absolvire a cursului de pedagogie nr. 980 din 15.03.1995 emis de Universitatea POLITEHNICA București	
	Certificat de absolvire a cursului de FORMATOR , nr. 51 din 11.05.2010 emis de SC RISING STAR SRL	

Subsemnata, **Adina Ionuța GAVRILĂ**, candidată la concursul pentru ocuparea postului de **CONFERENȚIAR**, poziția **16**, Departam. de **BIORESURSE ȘI ȘTIINȚA POLIMERILOR**, Facultatea de **CHIMIE APLICATĂ ȘI ȘTIINȚA MATERIALELOR**, din Domeniul de Studii Univ. **INGINERIE CHIMICĂ**, arondat Comisiei de Specialitate CNATDCU [OMECTS 6573/2012] Nr. **8, Comisia Inginerie Chimică, Inginerie Medicală, Știința Materialelor și Nanomateriale**, declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declarații, din Legea 286/2009 - Codul Penal, că sunt îndeplinite toate Standardele minime prevăzute de Metodologia UPB 2013 pentru înscrierea la concurs [Secțiunea II.3], OMECTS 6560/2012 [C + P], în momentul înscrierii la concurs, și susțin veridicitatea informațiilor prezentate în dosar și în materialul de mai sus. Lucrările considerate a fi incluse în Baza ISI Thomson Reuters sau în alte Baze de Date Internaționale [BDI] sunt vizibile în aceste baze, în dreptul numelui candidatului, la aceasta dată.

Candidat,

Data

Adina Ionuța GAVRILĂ

31.05.2017

ARTICOLE PUBLICATE ÎN REVISTE COTATE ISI

1. **Gavrila A. I.**, Asofiei I., Chipurici P., Factorial design for optimization of microwave assisted synthesis of 5-hydroxymethylfurfural, *Rev de chim*, 68(4), **2017**, p.639-641, ISSN: 0034-7752, **WOS:000400732400002** (FI = 0.956).
2. **Gavrila, A. I.**, Asofiei, I., Trifan, A., Chipurici P., Rusen E., Microwave Assisted Synthesis of 5-hydroxymethylfurfural Using Mild Reaction Conditions, *Rev de chim*, 68(3), **2017**, p.435-438, ISSN: 0034-7752, **WOS:000400731900003** (FI = 0.956).
3. Pârvulescu O. C., **Gavrilă A. I.***, Dobre T., Ceatră L., Effects of process factors on slow pyrolysis of sorghum waste, *Rev de chim*, 67(11), **2016**, p.2254-2257, ISSN: 0034-7752, **WOS:000388361900027** (FI = 0.956).
4. Rusen E., Diacon A., Mocanu A., **Gavrila A.***, Dumitrescu A.M., Dinescu A. Photonic crystals band gap modulation using the pattern of a written DVD, *Materiale plastice*, 53 (2), **2016**, p.185-188, ISSN: 0025-5289, **WOS:000380629300001** (FI = 0.903).
5. Asofiei I., Calinescu I., Trifan A., David I.G., **Gavrila A.I.***, Microwave Assisted Batch Extraction of Polyphenols From Sea Buckthorn Leaves, *Chem. Eng. Commun.*, 203(12), **2016**, p.1547-1553, ISSN: 0098-6445, eISSN: 1563-5201, **WOS:000387245100003** (FI = 1.433).
6. Calinescu I., **Gavrila A. I.***, Ivopol M., Ivopol G. C., Popescu M., Mircioaga N. Microwave assisted extraction of essential oils from enzymatically pretreated lavender (*Lavandula angustifolia* Miller), *Cent. Eur. J. Chem.*, 12(8), **2014**, ISSN: 1895-1066 eISSN: 1644-3624, p.829-836, **WOS:000335552400003** (FI = 1.207).
7. Călinescu I., Martin D., Ighigeanu D., **Gavrila A. I.**, Trifan A., Patrascu M., Munteanu C., Diacon A., Manaila E., Craciun G., Nanoparticles synthesis by electron beam radiolysis, *Cent. Eur. J. Chem.*, 12(7), **2014**, p.774-781, ISSN: 1895-1066, eISSN: 1644-3624, **WOS:000335552200006** (FI = 1.207).
8. Călinescu I., Mustătea G., **Gavrilă A. I.**, Dobre A., Pop C., Silver nanoparticles: synthesis, characterisation and antibacterial activity, *Rev. de chim.*, 65(1), **2014**, p. 15-19, ISSN: 0034-7752, **WOS:000334150300003** (FI = 0.956).
9. **Gavrilă A.**, Andersen L. Skrydstrup T., A convenient and simple procedure for the preparation of nitrate esters from alcohols employing $\text{LiNO}_3/(\text{CF}_3\text{CO})_2\text{O}$, *Tetrahedron Lett.*, 46(37), **2005**, p.6205-6207, ISSN: 0040-4039, **WOS:000231406400006** (FI=2.347).
10. Blakskjær P., **Gavrilă A.**, Andersen L. Skrydstrup T., An improved protocol for the SmI_2 -promoted C-alkylation of peptides: degradation and functionalization of serine residues in linear and cyclic peptides, *Tetrahedron Lett.*, 45(49), **2004**, p.9091-9094, ISSN: 0040-4039, **WOS:000225147400031** (FI=2.347).
11. Chipurici P., Avram R., Papahagi L., Calinescu I., **Gavrilă A.I.**, The oxidation reaction of para-izopropyltoluene to para-izopropyl benzoic acid in liquid phase, *Rev de chim*, 54(2), **2003**, p.168 -171, ISSN: 0034-7752, **WOS:000181769700017** (FI = 0.956).

12. Chipurici P., Papahagi L., Cristescu C., Duta I., **Gavrilă A.I.**, Liquid phase oxidation of para-tert-butyl toluene, *Rev. Roum. Chim*, 48(1), p.53-59, **2003**, ISSN: 0035-3930, **WOS:000184749200008** (FI = 0.250).
13. Chipurici P., Avram R., Papahagi L., Calinescu I., **Gavrilă A.I.**, The liquid-phase oxidation of para-isopropyltoluene to hydroperoxides, *Rev de chim*, 53(7), **2002**, p.551-554, ISSN: 0034-7752, **WOS:000177426000012** (FI = 0.956).
14. Chipurici P., Papahagi L., Avram R., **Gavrilă A.I.**, Liquid phase oxidation of the alkylaromatic hydrocarbons, *Rev. Roum. Chim*, 47(7), **2002**, p.641-645, ISSN: 0035-3930, **WOS:000183386900006** (FI = 0.250).
15. Chipurici P., Papahagi L., Avram R., **Gavrilă A.I.**, The liquid phase oxidation of ciclohexil toluene, *Rev de chim*, 53(3), **2002**, p. 244-246, ISSN: 0034-7752, **WOS:000175915700011** (FI = 0.956).

ARTICOLE PUBLICATE ÎN REVISTE COTATE ISI CA AUTOR PRINCIPAL

1. **Gavrila A. I.**, Asofiei I., Chipurici P., Factorial design for optimization of microwave assisted synthesis of 5-hydroxymethylfurfural, *Rev de chim*, 68(4), **2017**, p.639-641, ISSN: 0034-7752, **WOS:000400732400002** (FI = 0.956).
2. **Gavrila, A. I.**, Asofiei, I., Trifan, A., Chpurici P., Rusen E., Microwave Assisted Synthesis of 5-hydroxymethylfurfural Using Mild Reaction Conditions, *Rev de chim*, 68(3), **2017**, p.435-438, ISSN: 0034-7752, **WOS:000400731900003** (FI = 0.956).
3. Pârvulescu O. C., **Gavrilă A. I.***, Dobre T., Ceatră L., Effects of process factors on slow pyrolysis of sorghum waste, *Rev de chim*, 67(11), **2016**, p.2254-2257, ISSN: 0034-7752, **WOS:000388361900027** (FI = 0.956).
4. Rusen E., Diacon A., Mocanu A., **Gavrila A.***, Dumitrescu A.M., Dinescu A. Photonic crystals band gap modulation using the pattern of a written DVD - *Materiale plastice*, 53 (2), **2016**, p.185-188, ISSN: 0025-5289, **WOS:000380629300001** (FI = 0.903).
5. Asofiei I., Calinescu I., Trifan A., David I.G., **Gavrila A.I.***, Microwave Assisted Batch Extraction of Polyphenols From Sea Buckthorn Leaves, *Chem. Eng. Commun.*, 203(12), **2016**, p.1547-1553, ISSN: 0098-6445, eISSN: 1563-5201, **WOS:000387245100003** (FI = 1.433).
6. Calinescu I., **Gavrila A. I.***, Ivopol M., Ivopol G. C., Popescu M., Mircioaga N. Microwave assisted extraction of essential oils from enzymatically pretreated lavender (*Lavandula angustifolia* Miller), *Cent. Eur. J. Chem.*, 12(8), **2014**, ISSN: 1895-1066 eISSN: 1644-3624, p.829-836, **WOS:000335552400003** (FI = 1.207).
7. **Gavrilă A.**, Andersen L. and Skrydstруп T., - A convenient and simple procedure for the preparation of nitrate esters from alcohols employing $\text{LiNO}_3/(\text{CF}_3\text{CO})_2\text{O}$, *Tetrahedron Lett.*, 46(37), **2005**, p.6205-6207, ISSN: 0040-4039, **WOS:000231406400006** (FI=2.347).

FIȘA DE CALCUL
pentru factorul de impact cumulat (FIC)

No.	Referința bibliografică	FI	Na	Autor princ.	FI/Na
1	Gavrila A. I. , Asofiei I., Chipurici P., Factorial design for optimization of microwave assisted synthesis of 5-hydroxymethylfurfural, <i>Rev de chim</i> , 68(4), 2017 , p.639-641, ISSN: 0034-7752, WOS:000400732400002.	0.956	3	da	0.956
2	Gavrila, A. I. , Asofiei, I., Trifan, A., Chipurici P., Rusen E., Microwave Assisted Synthesis of 5-hydroxymethylfurfural Using Mild Reaction Conditions, <i>Rev de chim</i> , 68(3), 2017 , p.435-438, ISSN: 0034-7752, WOS:000400731900003.	0.956	5	da	0.956
3	Pârvulescu O. C., Gavrilă A. I.* , Dobre T., Ceatră L., Effects of process factors on slow pyrolysis of sorghum waste, <i>Rev de chim</i> , 67(11), 2016 , p.2254-2257, ISSN: 0034-7752, WOS:000388361900027.	0.956	4	da	0.956
4	Rusen E., Diacon A., Mocanu A., Gavrila A.* , Dumitrescu A.M., Dinescu A. Photonic crystals band gap modulation using the pattern of a written DVD - <i>Materiale plastice</i> , 53 (2), 2016 , p.185-188, ISSN: 0025-5289, WOS:000380629300001.	0.903	6	da	0.903
5	Asofiei I., Calinescu I., Trifan A., David I.G., Gavrila A.I.* , Microwave Assisted Batch Extraction of Polyphenols From Sea Buckthorn Leaves, <i>Chem. Eng. Commun.</i> , 203(12), 2016 , p.1547-1553, ISSN: 0098-6445, eISSN: 1563-5201, WOS:000387245100003.	1.433	5	da	1.433
6	Calinescu I., Gavrila A. I.* , Ivopol M., Ivopol G. C., Popescu M., Mircioaga N. Microwave assisted extraction of essential oils from enzymatically pretreated lavender (<i>Lavandula angustifolia</i> Miller), <i>Cent. Eur. J. Chem.</i> , 12(8), 2014 , ISSN: 1895-1066 eISSN: 1644-3624, p.829-836, WOS:000335552400003.	1.207	6	da	1.207
7	Călinescu I., Martin D., Ighigeanu D., Gavrila A. I. , Trifan A., Patrascu M., Munteanu C., Diacon A., Manaila E., Craciun G., Nanoparticles synthesis by electron beam radiolysis, <i>Cent. Eur. J. Chem.</i> , 12(7), 2014 , p.774-781, ISSN: 1895-1066, eISSN: 1644-3624, WOS:000335552200006.	1.207	10	nu	0,1207
8	Călinescu I., Mustăța G., Gavrilă A. I. , Dobre A., Pop C., Silver nanoparticles: synthesis, characterisation and antibacterial activity, <i>Rev. de chim.</i> , 65(1), 2014 , p. 15-19, ISSN: 0034-7752, WOS:000334150300003.	0.956	5	nu	0,1912
9	Gavrilă A. , Andersen L. Skrydstrup T., - A convenient and simple procedure for the preparation of nitrate esters from alcohols employing $\text{LiNO}_3/(\text{CF}_3\text{CO})_2\text{O}$, <i>Tetrahedron Lett.</i> , 46(37), 2005 , p.6205-6207, ISSN: 0040-4039, WOS:000231406400006	2.347	3	da	2.347
10	Blakskjær P., Gavrilă A. , Andersen L. Skrydstrup T., An improved protocol for the SmI_2 -promoted C-alkylation of peptides: degradation and functionalization of serine residues in linear and cyclic peptides, <i>Tetrahedron Lett.</i> , 45(49), 2004 , p.9091-9094, ISSN: 0040-4039, WOS:000225147400031.	2.347	4	nu	0.5867
11	Chipurici P., Avram R., Papahagi L., Calinescu I., Gavrilă A.I. , The oxidation reaction of para-izopropyltoluene to para-izopropyl benzoic acid in liquid phase, <i>Rev de chim</i> , 54(2), 2003 , p.168 -171, ISSN: 0034-7752, WOS:000181769700017.	0.956	5	nu	0,1912
12	Chipurici P., Papahagi.L., Cristescu C., Duta I., Gavrilă A.I. , Liquid phase oxidation of para-tert-butyl toluene, <i>Rev. Roum. Chim</i> , 48(1), p.53-59, 2003 , ISSN: 0035-3930, WOS:000184749200008.	0,250	5	nu	0,050

13	Chipurici P., Avram R., Papahagi L., Calinescu I., Gavrilă A.I. , The liquid-phase oxidation of para-isopropyltoluene to hydroperoxides, <i>Rev de chim</i> , 53(7), 2002 , p.551-554, ISSN: 0034-7752, WOS:000177426000012.	0.956	5	nu	0,1912
14	Chipurici P., Papahagi L., Avram R., Gavrilă A.I. , Liquid phase oxidation of the alkylaromatic hydrocarbons, <i>Rev. Roum. Chim</i> , 47(7), 2002 , p.641-645, ISSN: 0035-3930, WOS:000183386900006.	0,250	4	nu	0.0625
15	Chipurici P., Papahagi L., Avram R., Gavrilă A.I. , Oxidarea în fază lichidă a p-ciclohexiltoluenului - <i>Rev de chim</i> , 53(3), 2002 , p. 244-246, ISSN: 0034-7752, WOS:000175915700011.	0.956	4	nu	0.239
FACTORUL DE IMPACT CUMULAT (FIC)					10.390

Lista de citări din baza de date SCOPUS

1. Asofiei I., Calinescu I., Trifan A., David I.G., **Gavrila A.I.***, Microwave Assisted Batch Extraction of Polyphenols From Sea Buckthorn Leaves, *Chem. Eng. Commun.*, 203(12), **2016**, p.1547-1553, ISSN: 0098-6445, eISSN: 1563-5201, **WOS:000387245100003** (FI = 1.433).

1/1. Galan, AM, Calinescu, I, Trifan, A, Winkworth-Smith, C, Calvo-Carrascal, M, Dodds, C, Binner, E, New insights into the role of selective and volumetric heating during microwave extraction: Investigation of the extraction of polyphenolic compounds from sea buckthorn leaves using microwave-assisted extraction and conventional solvent extraction, <i>Chem. Eng. Process.</i> , 116, 2017, p. 29-39. WOS:000400529800004 (FI = 2.154).
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2/2. David, IG, Popa, DE, Buleandra, M. Pencil Graphite Electrodes: A Versatile Tool in Electroanalysis, <i>J. Anal. Methods Chem.</i> , Article ID 1905968, 22 pages, WOS:000394940900001, (FI = 1.369).

2. Calinescu I., **Gavrila A. I.***, Ivopol M., Ivopol G. C., Popescu M., Mircioaga N. Microwave assisted extraction of essential oils from enzymatically pretreated lavender (*Lavandula angustifolia* Miller), *Cent. Eur. J. Chem.*, 12(8), **2014**, ISSN: 1895-1066 eISSN: 1644-3624, p.829-836, **WOS:000335552400003** (FI = 1.207).

3/1. Zhao C, Zhang Y, Li C, He X, Yang L, Fu Y, Zhang J, Zhao W, Zu Y, Development of an Ionic Liquid-Based Ultrasonic/Microwave-Assisted Simultaneous Distillation and Extraction Method for Separation of Camptothecin, 10-Hydroxycamptothecin, Vincoside-Lactam, and Essential Oils from the Fruits of <i>Camptotheca acuminata</i> Decne, <i>Appl. Sci.</i> 6(10), 2016, Article Number: 293, 17 pages, WOS:000386100000027 (FI=1.726).

4/2. C Zhao, X He, C Li, L Yang, Y Fu, K Wang, Y Zhang, Y Nu, A Microwave-Assisted Simultaneous Distillation and Extraction Method for the Separation of Polysaccharides and Essential Oil from the Leaves of <i>Taxus chinensis</i> Var. <i>mairei</i> , <i>Appl. Sci.</i> 6(2), 2016, Article Number:19; 15 pages, WOS:000371827200019, (FI=1.726).

5/3. Racoti A, Rusen E, Dinescu A, Ion VA, Calinescu I, Ginger essential oil encapsulation in PMMA macrocapsules I, <i>Materiale plastice</i> , 53(3), 2016, p. 357-360, WOS:000384870300003, (FI = 0.903).

6/4. Boulila, A., Hassen, I., Haouari, L., Casabianca, H., Hosni, K., Enzyme-assisted extraction of bioactive compounds from bay leaves (<i>Laurus nobilis</i> L.) <i>Industrial Crops and Products</i> 74, p. 485-493 WOS:000360948900063 (FI= 3.449).
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3. Călinescu I., Mustătea G., **Gavrila A. I.**, Dobre A., Pop C., Silver nanoparticles: synthesis, characterisation and antibacterial activity, *Rev. de chim.*, 65(1), **2014**, p. 15-19, ISSN: 0034-7752, **WOS:000334150300003** (FI = 0.956).

7/1. Pica, A, Ficai, A, A New Generation of Antibacterial Film Forming Materials, <i>Rev. de Chim.</i> 67(1), p. 34-37, WOS:000369524300008 (FI=0.956).

8/2. Bunghez I.R., Dumitrescu O., Somoghi, R. Ionita I., Ion R.M., Silver nanoparticles obtained via <i>Morus Nigra</i> extract synthesis and antioxidant activity, <i>Rev. de Chim.</i> 66(8), p. 1112-1115 WOS:000361124600006 (FI=0.956).
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4. Călinescu I., Martin D., Ighigeanu D., **Gavrila A. I.**, Trifan A., Patrascu M., Munteanu C., Diacon A., Manaila E., Craciun G., Nanoparticles synthesis by electron beam radiolysis, *Cent. Eur. J. Chem.*, 12(7), **2014**, p.774-781, ISSN: 1895-1066, eISSN: 1644-3624, **WOS:000335552200006** (FI = 1.207).

9/1. B.A. Camacho-Flores, O. Martínez-Álvarez, M.C. Arenas-Arrocena, L.S. Acosta-Torres, Copper: Synthesis techniques in nanoscale and powerful application as an antimicrobial agent, *J. Nanomaterials*, Volume 2015, 2015, Article number 415238, 10 pages, WOS:000366816500001 (FI= 1.758).

10/2. A. Ebrahiminezhad, S. Taghizadeh, A. Berenjian, F.H. Naeini, Y. Ghasemi, Green synthesis of silver nanoparticles capped with natural carbohydrates using Ephedra intermedia, *Nanoscience and Nanotechnology – Asia* 7(1), p. 104-112

5. Călinescu I, Pătrașcu M, **Gavrilă A.I.**, A Trifan, C Boscornea, Synthesis and characterisation of silver nanoparticles in the presence of PVA and tannic acid, *UPB Sci. Bull. Series B* 73(4), 2011, p. 3-10, ISSN 1454 – 2331 (ISI fara FI Baza de date SCOPUS).

11/1. Singh H. P., Gujral S. S., Sharma S. K., Sharma R. K., Tannic acid: A natural source to tailor nano crystalline silver particles of different morphologies as antibacterial agent, *Adv. Mater. Lett.* 6(12), 2015, p. 1043-1049.

12/2. Oktar, N.F, F, Yetmez, M, Ficai, D, Ficai, A, Dumitru, F, Pica, A, Molecular Mechanism and Targets of the Antimicrobial Activity of Metal Nanoparticles, *Curr. Top. Med. Chem.*, 15(16), 2015, p. 1583-1588, WOS:000355196900004, (FI= 3.402)

13/3. Chaudhary A, Gupta A, Mathur R.B., Dhakate S.R. Effective antimicrobial filter from electrospun polyacrylonitrile-silver composite nanofibers membrane for conducive environment *Adv. Mat. Lett.* 5(10), 2014, p. 562-568.

14/4. Ahmad T., Reviewing the Tannic Acid Mediated Synthesis of Metal Nanoparticles, *J Nanotechnol*, Volume 2014, Article ID 954206, 11 pages, <http://dx.doi.org/10.1155/2014/954206> (IF=3.573).

6. Chipurici P., Calinescu I., **Gavrilă A.I.**, Predeanu G., Wastewater Treatment Using Multipurpose Carbon Materials, *UPB Sci. Bull. Series B*, 72(2), 2010, p. 83-92, ISSN 1454 – 2331 (ISI fara FI Baza de date SCOPUS).

15/1. Ion VA, Parvulescu OC, Dobre T, Duteanu N, Nitu S G, Modelling of Thermal Desorption of Volatile Organic Compounds from Activated Carbon, *Rev. de Chim.* 66(5), 2015, p. 703-706, WOS:000355126000021 (FI=0.956).

7. **Gavrilă A.**, Andersen L. Skrydstrup T., A convenient and simple procedure for the preparation of nitrate esters from alcohols employing $\text{LiNO}_3/(\text{CF}_3\text{CO})_2\text{O}$, *Tetrahedron Lett.*, 46(37), 2005, p.6205–6207, ISSN: 0040-4039, **WOS:000231406400006** (FI=2.347).

16/1. Seepersaud, M, Seecharan, S, Lalgee, LJ, Jalsa, NK, Ceric ammonium nitrate/acetic anhydride: A tunable system for the O-acetylation and mononitration of diversely protected carbohydrates, *Synth. Commun.* 47(9), p. 853-871 WOS:000399813500002 (FI= 1.065).

17/2. Wade, P. A.; Papparoidamis, N, Liao, Manor, BC, DeBolt, K, Synthesis and conjugate addition reactions of N-(beta-nitroalkyl)amides *Tetrahedron Lett.* 56(48), 2015, p.6722-6725, WOS:000365060400018 (FI=2.347).

18/3. Smith, N.W., Gourisankar, S.P., Montchamp, J.-L., Dzyuba, S.V. Silver-free synthesis of nitrate-containing room-temperature ionic liquids, *New Journal of Chemistry*, 35(4), 2011, p. 909-914, WOS:000288908100023 (FI= 3.277).

19/4. Occhipinti, G., Liguori, L., Tsoukala, A., Bjørsvik, H.-R. A switchable oxidation process leading to two various versatile pharmaceutical intermediates, *Organic Process Research and Development* 14(6), 2010, p. 1379-1384, WOS:000284494800012 (FI= 2.922).

20/5. Hansen, S.G., Skrydstrup, T. Modification of amino acids, peptides, and carbohydrates through radical *Topics in Current Chemistry*, 2006 Vol. 264, p. 135-162, WOS:000237584000004 (BOOK)

8. Blakskjær P., **Gavrilă A.**, Andersen L. Skrydstrup T., An improved protocol for the SmI₂-promoted C-alkylation of peptides: degradation and functionalization of serine residues in linear and cyclic peptides, *Tetrahedron Lett.*, 45(49), **2004**, p.9091–9094, ISSN: 0040-4039, **WOS:000225147400031** (FI=2.347).

21/1. Romero-Estudillo, I., Boto, A., Domino Process Achieves Site-Selective Peptide Modification with High Optical Purity. Applications to Chain Diversification and Peptide Ligation, <i>J. Org. Chem.</i> 80(19), 2015, p. 9379-9391, WOS:000362386400002, (FI=4.785).
22/2. Szostak, M, Fazakerley, N, Parmar, D, Procter, DJ, Cross-Coupling Reactions Using Samarium(II) Iodide, <i>Chem. Rev.</i> , 114(11), p. 5959-6039, 2014, WOS:000337336500009, (FI=37.369).
23/3. Liu, X.K., Zheng, X., Ruan, Y.P., Ma, J., Huang, P.Q One-pot reductive coupling of N-acylcarbamates with activated alkenes: Application to the asymmetric synthesis of pyrrolo[1,2-a]azepin-5-one ring system and (-)-xenovenine, <i>Organic and Biomolecular Chemistry</i> 10(6), 2012, p. 1275-1284, WOS:000299342200018 (FI= 3.559).
24/4. Liu, X.-K., Qiu, S., Xiang, Y.-G., Ruan, Y.-P., Zheng, X., Huang, P.-Q. SmI ₂ -mediated radical cross-couplings of α-hydroxylated aza-hemiacetals and N, S -acetals with α,β-unsaturated compounds: Asymmetric synthesis of (+)-hyacinthacine A2, (-)-uniflorine A, and (+)-7- epi -casuarine <i>J. Org. Chem.</i> 76 (12), 2011, p. 4952-4963, WOS:000291409900014 (FI=4.785).
25/5. Deska, J. Radical-Mediated Synthesis of α-Amino Acids and Peptides (Book Chapter), Publish 2011, <i>Amino Acids, Peptides and Proteins in Organic Chemistry</i> 3, p. 115-141 DOI: 10.1002/9783527631803.ch3
26/6. Lin, GJ., Luo, SP., Zheng, X., Ye, JL., Huang, PQ. Enantiodivergent synthesis of trans-3,4-disubstituted succinimides by SmI ₂ -mediated Reformatsky-type reaction, <i>Tetrahedron Lett.</i> 49 (25), 2008, p. 4007-4010 WOS:000256771300012 (FI=2.347).
27/7. Deska, J., Kazmaier, U. Peptide backbone modifications <i>Curr. Org. Chem.</i> 12(5), 2008, p. 355-385, WOS:000254038500003, (FI=2.157).
28/8. Wang, X., Mao, H., Xie, G., Du, J. Chemoselective removal of acyloxy in 1-(benzotriazole-1-yl)alkyl esters and its application in the preparation of β-(benzotriazole-1-yl)alcohols <i>Synth. Commun.</i> 38 (17), 2008, p. 2908-2918, WOS:000258775400006 (FI= 1.065).
29/9. Elmore, DT, Peptide synthesis, (Book Chapter), <i>Amino Acids, Peptides and Proteins</i> , 36, 2007, p. 82-130
30/10. Hansen, S.G., Skrydstrup, T. Modification of amino acids, peptides, and carbohydrates through radical chemistry <i>Topics in Current Chemistry</i> , 2006 Vol. 264, p. 135-162, WOS:000237584000004 (BOOK)
31/11. Ebran, JP, Jensen, CM, Johannesen, SA, Karaffa, J, Lindsay, KB, Taaning, R, Skrydstrup, T, Creating carbon-carbon bonds with samarium diiodide for the synthesis of modified amino acids and peptides, <i>Organic and Biomolecular Chemistry</i> 4(19), 2006, p. 3553-3564, WOS:000240700200001 (FI= 3.559).
32/12. Lindsay, KB, Skrydstrup, T, Formal total synthesis of the potent renin inhibitor aliskiren: Application of a SmI ₂ -promoted acyl-like radical coupling, <i>J. Org. Chem.</i> 71(13), 2006, p. 4766-4777, WOS:000238312300007 (FI=4.785).
33/13. Kabata, M, Suzuki, T, Takabe, K, Yoda, H, SmI ₂ -promoted novel tandem elimination and coupling reactions of aliphatic imides with carbonyl compounds: application to the synthesis of dl-isoretronecanol, <i>Tetrahedron Lett.</i> , 47(10), 2006, p. 1607-1611, WOS:000235415600025 (FI=2.347).

9. Chipurici P., Avram R., Papahagi L., Calinescu I., **Gavrilă A.I.**, The liquid-phase oxidation of para-isopropyltoluene to hydroperoxides, *Rev de chim*, 53(7), **2002**, p.551-554, ISSN: 0034-7752, **WOS:000177426000012** (FI = 0.956).

34/1. Chipurici, P; Papahagi, L; Avram, R, Liquid phase oxidation of cyclohexilbenzene, <i>Rev. de Chim.</i> 53(11), p. 782-783, WOS:000180377100017 (FI=0.956).
--

10. Chipurici P., Papahagi L., Avram R., **Gavrilă A.I.**, The liquid phase oxidation of ciclohexil toluene, *Rev de chim*, 53(3), 2002, p. 244-246, ISSN: 0034-7752, **WOS:000175915700011** (FI = 0.956).

35/1. Chipurici, P; Papahagi, L; Avram, R, Liquid phase oxidation of cyclohexilbenzene, *Rev. de Chim.* 53(11), p. 782-783, WOS:000180377100017 (FI=0.956).