

Profesor Dr. Victor David.

Director al Departamentului de Chimie Analitică (2007-2019).

Data nașterii: 26 februarie 1955.

Adresa: Facultatea de Chimie; Departamentul de Chimie Analitică

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Afilieri: Universitatea din Bucuresti; Facultatea de Chimie.

Societatea de Chimie Analitică din România (SCAR);

Societatea de Chimie din România.

Premiul "Ilie Murgulescu" al Academiei Române, pe anul 2002.

Premiul "Grigore Moisil" al Marii Loje Naționale Române pe anul 2017, prin Academia Română.

Membri in Editorial Board: - *Biomedical Chromatography* (Wiley; Factor de Impact 2019 = 1,728);
- *Molecules* (MDPI Publisher and Swiss Chemical Society; F.I. = 3,267);
- *Journal of Essential Oil-Bearing Plants* (Taylor and Francis; F.I. = 0,688);
- *Journal of Chemistry* (Hindawi Publishers; F.I. = 1,790);
- *Revue Roumaine de Chimie* (Editura Academiei Romane; F.I. = 0,381).
- *Current Chromatography* (Bentham Publisher).

Associate Editor: *Journal of Liquid Chromatography and Related Technologies* (Taylor and Francis Publishers; Factor de Impact: 0,992), perioada 2017-2020.

Guest Editor: *Journal of Liquid Chromatography and Related Technologies* (Taylor and Francis Publishers; issue 3; 2015).

Domenii de cercetare:

- Metode spectrometrice și cromatografice de analiză;
- Modelare extra-analitică a proceselor de separare cromatografică;
- Interacții intermoleculare și modele de solvatare.

Cursuri universitare predate:

Metode de separare în chimia analitică (licență, an II);

Caracterizarea analitică a medicamentelor și produselor cosmetice (master, an I);

Controlul analitic al poluanților mediului (licență; Chimia Mediului).

Membri al Senatului Universității din București (2016-2019).

Membri în Comisia de Chimie CNADTCU (2012-2016).

Conducător de Doctorat (din 2005): 7 teze de doctorat coordonate și finalizate.

<https://scholar.google.ro/citations?user=kKIA5jgAAAAJ&hl=ro>

Lista lucrărilor publicate:

Cărți publicate în edituri internaționale

1. S.C. Moldoveanu, V.David, **Sample Preparation in Chromatography**, Editura Elsevier, Amsterdam; The Netherlands, 940 pagini; ISBN: 0-444-50394-3 (2002).
2. S.C. Moldoveanu, V.David, **Essentials in Modern HPLC Separations**, Editura Elsevier, Amsterdam; The Netherlands, 530 pagini; ISBN: 978-0-12-385013-3 (2013).
3. S.C. Moldoveanu, V.David, **Modern Sample Preparation in Chromatography**, Editura Elsevier, Amsterdam; The Netherlands, 450 pagini; ISBN: 978-0-444-54319-6 (2015).
4. S.C. Moldoveanu, V.David, **Selection of the HPLC Method in Chemical Analysis**, Editura Elsevier, Amsterdam, 588 pagini; ISBN: 9780128036846 (2017).
5. S.C. Moldoveanu, V.David, **Modern Sample Preparation in Chromatography**, *Ediția a doua*, Editura Elsevier, Amsterdam; The Netherlands, 675 pagini, 2021; ISBN: 9780128214053.

Capitole publicate în monografiile sau enciclopediile internaționale

1. F.Tache, A.Farca, A.Medvedovici, V.David, Chapter: *Captopril*, in **Encyclopedia of Endocrine Diseases**, Volumul I (Editor L.Martini), Elsevier, Amsterdam, p. 447-450 (2004).
2. A.Medvedovici, V.David, *Spectrophotometry: Diode Array*, in **Encyclopedia of Analytical Science**, 2nd Edition, (P.J. Worsford, A. Townshend, C.F. Poole, eds.), Elsevier, Oxford, Vol. 8, pg. 321-335 (2004).
3. A.Medvedovici, V.David, Chapter: *Pump/solvent delivery system design for HPLC*, in **Encyclopedia of Chromatography** (Editor: J. Cazes), Taylor & Francis Publications, New York, on-line (2006).
4. V.David, A.Medvedovici, Chapter: *Sample introduction techniques for HPLC*, in **Encyclopedia of Chromatography** (Editor: J. Cazes), Taylor & Francis Publications, New York, on-line (2006).
5. A.Medvedovici, A.Farca, V.David, Chapter 8: *Derivatization reactions in liquid chromatography for drug assaying in biological fluids*. **Advances in Chromatography** (Editori: E.Grushka, N.Grinberg), Francis & Taylor Publications, 47, 283-322 (2009).
6. A.Medvedovici, V.David, Chapter: *Pump/solvent delivery system design for HPLC*, in **Encyclopedia of Chromatography** (Editor: J.Cazes), Editia a 3-a, Taylor & Francis Publications, New York, Vol. 1; p. 1946-1962 (2009).
7. V.David, A. Medvedovici, Chapter: *Sample introduction techniques for HPLC*, in **Encyclopedia of Chromatography** (Editor: Jack Cazes), Editia a 3-a, Taylor & Francis Publications, New York, Vol. 1, p. 2067-2076 (2009).
8. A. Medvedovici, V.David, Spectrophotometry / Diode Array, *Reference Module in Chemistry, Molecular Sciences and Chemical Engineering*, from **Encyclopedia of Analytical Science (Second Edition)**, 2005, Elsevier, Oxford, Pages 321-334, Current as of 14 August 2012.
9. V.David, N. Grinberg, S.C. Moldoveanu, *Long range molecular interactions involved in the retention*

mechanisms of liquid chromatography; **Advances in Chromatography**, CRC Press, Boca Raton, 54, 77-110 (2018).

10. S.C. Moldoveanu, V.David, *Derivatization methods in GC and GC/MS*, in **Gas Chromatography**, 2018, IntechOpen, London, p. 1-34; DOI: 10.5772/intechopen.81954
11. A. Medvedovici, V.David, *Spectrophotometry: Diode Array*, in **Encyclopedia of Analytical Science**, Vol. 9 (P. Worsfold, C. Poole, A. Townshend, M. Miró, Editors.), 3rd edition, Elsevier, p. 221-235 (2019).

Cărți didactice și capitole publicate în monografiile naționale

1. V.David, *Pollutants* (Chapter I), publicat în monografia Biosensors in *Environmental Pollution Monitoring*; (Editor A. Ciucu), Editura Niculescu, București, p. 15-38 (2000).
2. V.David, *Controlul analitic al poluanților atmosferici*, Editura Universității din București, 163 pg (1997).
3. V.Dumitrescu, V.David, *Metode spectrometrice și automatizări în chimia analitică*, Editura Universității din București, 230 pagini (1996).
4. V.David, A.Medvedovici, *Metode de separare în chimia analitică*, Editura Universității din București, 180 pagini (2006).
5. V.David, A.Medvedovici, *Metode de separare și analiza cromatografică*, Editura Universității din București, 260 pagini (2007).
6. V.David, A.Medvedovici, *Metode de separare și analiză cromatografică* (Ediția a II-a, revizuită). Ed. Universității din București, 267 pagini (2008).
7. C.Mihailciuc, V.David, *Probleme și teste de chimie organică*, Editura ALL Educational, București, 252 pagini, ISBN: 973-9337-05-8; Edițiile: 1997; 1998.
8. C.Mihailciuc, V.David, *Culegere de teste și probleme moderne de chimie organică*, Editura Sigma, București (1993); 176 pagini, ISBN: 973-9077-28-5.
9. A.F.Danet, V.David, *Actiuni la nivel cazuistic*, în *Etica Mediului* (R.Paslack, K.Vromans, G.Y.Isildar, A.F.Danet - Editori), Editura Printech, București, ISBN: 978-606-521-558-0, p. 176-198 (2010).
10. V.David, A.F.Dăneț, *Chimie Analitică*, capitol în *Istoria Chimiei Românești* (Coordonator: P.T. Frangopol), Editura Academiei Române, București, p. 112-128 (2018).

Articole publicate în reviste indexate ISI

1. V.David, S.Moldoveanu, *Interaction between two charged distributions situated into a continuum, infinite and isotropic medium*. **Revue Roumaine de Chimie**, 26, 333-340 (1981).
2. V.David, S.Moldoveanu, *The long-range interaction of two molecules in the presence of a Kirkwood perturbational field*. **Revue Roumaine de Chimie**, 26, 805-809 (1981).
3. S.Moldoveanu, V.David, *An extended Huckel Fortran program for molecules including the elements from hydrogen to xenon except the transition metals*. **Revue Roumaine de Chimie**, 27, 325-343 (1982).

4. V.David, S.Moldoveanu, *The generalization of Beveridge-Schnuelle solvating model*. **Revue Roumaine de Chimie**, 27, 471-474 (1982).
5. V.David, *O analiza a modelului Gauss pentru descrierea formei penajelor de poluanti*. **Revista de Chimie (Bucuresti)**, 35, 910-914 (1984).
6. V.David, D.Ciomartan, *A method of computing of information entropy of the quantitative analytical data*. **Revue Roumaine de Chimie**, 30, 777-781 (1985).
7. V.David, D.Ciomartan, *Elemente structurale ale procesului de teleanaliza a poluanților atmosferici*. **Revista de Chimie (Bucuresti)**, 36, 954-958 (1985).
8. V.David, D.Ciomartan, *On the spectral analytical measuring processes regarded as information processes*. **Revue Roumaine de Chimie**, 31, 823-831 (1986).
9. V.David, D.Ciomartan, *Informational entropy of the probability field events of the chemical control analysis*. **Revue Roumaine de Chimie**, 32, 539-545 (1987).
10. V.David, *A nonextraction method of determining Pd(II) with p-nitrosodiphenylamine*. **Analytical Letters**, 19, 1199-1204 (1986).
11. V.David, G.E.Baiulescu, *An UV/VIS spectrometric study of the reaction of the Pd(II)-p-nitrosodiphenylamine complex with carbon monoxide*. **Revue Roumaine de Chimie**, 33, 603-610 (1988).
12. V.David, *An informational representation of the spectral analytical systems as communication systems with data decoding*. **Revue Roumaine de Chimie**, 33, 937-942 (1988).
13. D.N.Todor, A.Tanase, V.David, G.E.Baiulescu, *Thermo-analytical study of the complexes of palladium with α,α -dipyridil, p-nitrosodimethylaniline and p-nitrosodiphenylamine*. **Revue Roumaine de Chimie**, 34, 877-881 (1989).
14. V.David, *Particularități ale sistemelor analitice de măsură ca sisteme de transmisie a informației*. **Revista de Chimie (Bucuresti)**, 40, 428-431 (1989).
15. V.David, P.Marcuta, G.E.Baiulescu, *Surse și amestecuri gazoase etalon de oxid de carbon*. **Revista de Chimie (Bucuresti)**, 40, 528-531 (1989).
16. V.David, G.E.Baiulescu, *A method of determining carbon monoxide in air using Pd(II) – p-nitrosodiphenylamine complex*. **Revue Roumaine de Chimie**, 36, 999-1004 (1991).
17. V.David, *On the measure of information entropy in qualitative analysis*. **Revue Roumaine de Chimie**, 38, 527-531 (1993).
18. V.A.Ilie, C.Patroescu, V.David, F.Doroftei, *Separation and determination of some cations from transition and platinic group complexes with mercaptobenzthiazol with reversed phase HPLC*. **Revista de Chimie (Bucuresti)**, 46, 478-484 (1995).
19. V.David, A.Medvedovici, F.Tache, *Information amount obtained at the separation and characterization for some natural fruits oils by CGC-MS technique*. **Annali di Chimica (Roma)**, 88, 577-586 (1998).

20. A.Medvedovici, V.David, F.David, P.Sandra, *Analysis of polyaromatic hydrocarbons in water samples, at ppt level, using on-line solid phase extraction-reversed phase liquid chromatography - fluorescence detection*. **Chemia Analityczna (Warsaw)**, 43, 47-56 (1998).
21. V.David, *Estimation of information content obtained from UV-VIS molecular absorption spectrometry*. **Journal of Chemical Information and Computer Sciences**, 39, 278-280 (1999).
22. A.Medvedovici, V.David, F.David, P.Sandra, *Optimization in the formaldehyde determination at sub-ppm level from acetals by HPLC-DAD*. **Analytical Letters**, 32, 581-592 (1999).
23. A.Lamiri, A.Medvedovici, F.David, V.David, P.Sandra, *Off-line coupling liquid chromatography and capillary gas chromatography/mass spectrometry for ultratrace determination of deltamethrin in mint oil*. **Chemia Analityczna (Warsaw)**, 44, 977-984 (1999).
24. A.Medvedovici, C.Mircioiu, V.David, D.S.Miron, *Liquid extraction and HPLC-DAD assay of hydrochlorotiazide from plasma for a bioequivalence study at the lowest therapeutice dose*. **European Journal of Drug Metabolism and Pharmacokinetics**, 25, 91-96 (2000).
25. A.Medvedovici, V.David, P.Sandra, *Fast analysis of carbaryl by on-line SPE-SFC-DAD*. **Revue Roumaine de Chimie**, 45, 827-834 (2000).
26. V.David, A.Medvedovici, *Data estimation in high-performance liquid chromatography – diode array detection – fluorescence detection by information theory*. **Journal of Chemical Information and Computer Sciences**, 40 (4), 976-980 (2000).
27. A.Medvedovici, F.David, V.David, P.Sandra, *Analysis of xanthines using a fully automated on-line SPE-SFC-HPLC-DAD technique*. **Annali di Chimica (Roma)**, 90, 455-466 (2000).
28. A.Medvedovici, V.David, D.Miron, C.Mircioiu, *Comparison of two sample preparation methods for HPLC-DAD assay of tolbutamide from human plasma*. **Analytical Letters**, 33, 2219-2230 (2000).
29. F.Tache, V.David, A.Farca, A.Medvedovici, *HPLC - DAD determination of metformin in human plasma using derivatization with p-nitrobenzoyl chloride in a biphasic system*. **Microchemical Journal**, 68, 13-19 (2001).
30. A.Wohl, V.David, *Evaluation of experimental data errors in case of nondistribution to the normal curve*. **Revue Roumaine de Chimie**, 46 (2) 143-151 (2001).
31. V.David, V.Schiopu, V.Dumitrescu, *An UV-VIS spectrometric study of reaction between carbon monoxide and nitrosobenzene, in presence of palladium ion*. **Chemia Analityczna (Warsaw)**, 46, 707-713 (2001).
32. V.David, M.Ionescu, F.Tache, A.Medvedovici, *A fast and simple method of determining ranitidine in plasma samples by HPLC-DAD*. **Chemia Analityczna (Warsaw)**, 45, 865-871 (2001).
33. V.Dumitrescu, V.David, A.Pavel, *Determinarea polarografică a nifedipinului si cloramfenicolului*. **Revista de Chimie (Bucuresti)**, 52 (6), 317-320 (2001).
34. V.David, M.Ionescu, V.Dumitrescu, *Determination of cycloserine from human plasma by HPLC-FLD, using a derivatization with p-benzoquinone*. **Journal of Chromatography B**, 761 (1), 27-33 (2001).

35. A.Medvedovici, V.David, F.Tache, F.David, P.Sandra, *SPE-HPLC-DAD determination of Triton X-100 in perfusable solutions*. **Analytical Letters**, 34, 1477-1486 (2001).
36. F.Tache, A.Farca, A.Medvedovici, V.David, *Validation of an HPLC-FLD method for determination of free captopril in human plasma, using a pre-column derivatization reaction with monobromobimane*. **Journal of Pharmaceutical and Biomedical Analysis**, 28 (3-4), 549-557 (2002).
37. A.Medvedovici, M.Ionescu, C.Mircioiu, V.David, *Optimization of a liquid-liquid extraction method for HPLC-DAD determination of penicillin-V in human plasma*. **Microchemical Journal**, 72, 85-92 (2002).
38. M.Ionescu, V.David, A.Medvedovici, *A non-extraction method for the determination of prothionamide in human plasma by high performance liquid chromatography - diode array detection*. **Revue Roumaine de Chimie**, 47 (8-9), 855-860 (2002).
39. A.Farca, F.Tache, A.Medvedovici, V.David, *Validation of the assay of metoprolol in human plasma using liquid-liquid extraction and high performance liquid chromatography with fluorescence detection*. **Chimia Analityczna (Warsaw)**, 48 (4), 677-688 (2003).
40. I.Lovin, F.Albu, F.Tache, V.David, A.Medvedovici, *Solvent and salting effects on sample preparation procedure for determination of fenofibric acid in human plasma by HPLC-DAD*. **Microchemical Journal**, 75 (3), 179-187 (2003).
41. V.David, C.Draghici, *Computation of the detection limit in chromatographic analysis*. **Revue Roumaine de Chimie**, 48 (9), 685-692 (2003).
42. A.Farca, V.David, A.Medvedovici, M.Ionescu, *Application of ion-pair mechanism for the determination of acyclovir in plasma samples by HPLC with fluorescence detection*. **Revue Roumaine de Chimie**, 48 (10), 781-787 (2003).
43. A.Medvedovici, F.Albu, A.Farca, V.David, *Validated HPLC determination method for 2-[(dimethyl amino)methyl]cyclohexanone as impurity in tramadol using a precolumn derivatisation reaction with 2,4-dinitrophenylhydrazine*. **Journal of Pharmaceutical and Biomedical Analysis**, 34, 67-74 (2004).
44. V.David, C.Bala, L.Rotariu, *Thermodynamic parameters of the reversed-phase liquid chromatography retention for some lipid-soluble vitamins*. **Chimia Analityczna (Warsaw)**, 49 (2), 191-199 (2004).
45. V.David, F.Albu, A.Medvedovici, *Structure – retention correlation of some oxacam drugs in reversed-phase liquid chromatography*. **Journal of Liquid Chromatography and Related Technologies**, 27 (6), 965-984 (2004).
46. M.Ionescu, T.Galaon, V.David, A.Medvedovici, *Determination of glybenclamide in human plasma by high-performance liquid chromatography and diode-array detector*. **Revue Roumaine de Chimie**, 49 (3-4), 351-359 (2004).
47. M.Musteata, V.Musteata, V.David, A.Medvedovici, B.C.Gagea, V.I.Parvulescu, *Heterogeneous synthesis of amido-type surfactants for bitumenes*. **Comptes Rendus Chimie**, 7 (6-7), 623-628 (2004).
48. A.Medvedovici, V.David, F.Albu, A.Farca, *Retention behavior of amiodarone and some related compounds in reversed-phase liquid chromatography*. **Revue Roumaine de Chimie**, 49 (9), 783-789

(2004).

49. V.David, A.Medvedovici, F.Albu, *Retention behavior of metformin and related impurities in ion-pairing liquid chromatography*. **Journal of Liquid Chromatography and Related Technologies**, 28 (1), 81-95 (2005).
50. F.Albu, C.Georgiță, V.David, A.Medvedovici, *Liquid chromatography – electrospray tandem mass spectrometry method for determination of indapamide in serum for single/multiple dose bioequivalence studies of sustained release formulations*. **Journal of Chromatography B**, 865 (1-2), 35-40 (2005).
51. A.Medvedovici, F.Albu, C.Georgita, V.David, *Non-extractive procedure followed by LC/APCI MS/MS analysis of trimetazidine in plasma samples for assessing bioequivalence of immediate/modified release formulations*. **Biomedical Chromatography**, 19 (7), 549-555 (2005).
52. A.Medvedovici, F.Albu, C.Georgita, C.Mircioiu, V.David, *A non-extracting procedure for the determination of meloxicam in plasma samples by HPLC-DAD*. **Arzneimittel Forschung / Drug Research**, 55 (6), 326-331 (2005).
53. V.David, A.Medvedovici, *Conditional/non-conditional probabilities and information entropies assigned to the high performance liquid chromatography with diode-array and fluorescence detections*. **Journal of Chemometrics**, 19 (1), 16-22 (2005).
54. A.Medvedovici, F.Albu, V.David, *Selection of the retention mechanism for separation of amitriptyline and the main related impurities by liquid chromatography*. **Revue Roumaine de Chimie**, 50 (3), 225-234 (2005).
55. V.David, C.Barcutean, I.Sora, A.Medvedovici, *Determination of metformin in plasma samples by HPLC-DAD based on plasma derivatization and precipitation with acetic anhydride*. **Revue Roumaine de Chimie**, 50 (4), 269-276 (2005).
56. V.David, A.Medvedovici, *Partition model applied to the retention process of basic analytes in reversed-phase and ion-pairing liquid chromatography*. **Revue Roumaine de Chimie**, 50 (9-10), 837-843 (2005).
57. V.David, E.E.Iorgulescu, A.Medvedovici, *Extrapolation by multiple regressions of the retention parameters for several aromatic hydrocarbons in reversed-phase liquid chromatography*. **Revue Roumaine de Chimie**, 51 (7-8), 803-809 (2006).
58. V.David, C.Mihailciuc, *Characterization of multi-signal analytical outcome by means of the information entropy and energy*. **Revue Roumaine de Chimie**, 51 (4), 317-322 (2006).
59. I.Sora, T.Galaon, V.David, A.Medvedovici, *Determination of nimesulide and its active metabolite in plasma samples based on solvent deproteinization and HPLC - DAD analysis*. **Revue Roumaine de Chimie**, 52 (5), 501-509 (2007).
60. T.Galaon, S.Udrescu, I.Sora, V.David, A.Medvedovici, *High-throughput liquid-chromatography method with fluorescence detection for reciprocal determination of furosemide or norfloxacin in human plasma*. **Biomedical Chromatography**, 21 (1), 40-47 (2007).
61. F.Albu, C.Georgita, V.David, A.Medvedovici, *Determination of glibenclamide in human plasma by liquid*

- chromatography with atmospheric pressure chemical ionization / MS-MS detection. Journal of Chromatography B*, 846 (1-2), 222-229 (2007).
62. A.Medvedovici, V.David, V.David, C.Georgita, *Retention phenomena induced by large volume injection of organic solvents non-miscible with mobile phase in reversed-phase liquid chromatography. Journal of Liquid Chromatography and Related Technologies*, 30 (2), 199-213 (2007).
63. V.David, A.Medvedovici, *Structure - retention correlation in liquid chromatography for pharmaceutical applications. Journal of Liquid Chromatography and Related Technologies*, 30 (5-7), 761-789 (2007).
64. I.Sora, T.Galaon, S.Udrescu, J.Negru, V.David, A.Medvedovici, *Fast RPLC-UV method on short sub-two microns particles packed column for the assay of tenoxicam in plasma samples. Journal of Pharmaceutical and Biomedical Analysis*, 43 (4), 1437-1443 (2007).
65. A.Medvedovici, F.Albu, C.Georgita, D.I.Sora, T.Galaon, S.Udrescu, V.David, *Achiral – chiral LC/LC – FLD coupling for determination of carvedilol in plasma samples for bioequivalence purposes. Journal of Chromatography B*, 850 (1-2), 327-335 (2007).
66. D.I.Sora, S.Udrescu, V.David, A.Medvedovici, *Validated ion pair liquid chromatography/fluorescence detection method for assessing the variability of the loratadine metabolism occurring in bioequivalence study. Biomedical Chromatography*, 21 (10), 1023-1029 (2007).
67. F.Albu, C.Georgita, V.David, A.Medvedovici, *Simultaneous assay of metformin and glibenclamide in human plasma based on extraction-less sample preparation procedure and LC/(APCI)MS. Journal of Chromatography B*, 854, 211-218 (2007).
68. F.Albu, C.Georgita, F.Tache, L.Mutihac, A.Medvedovici, V.David, *Considerations on MS/MS detection of bromazepam after liquid chromatographic separation from plasma samples: application to a bioequivalence study. Journal of Liquid Chromatography and Related Technologies*, 30 (18), 2699-2715 (2007).
69. S.M.Coman, M.Florea, V.I.Parvulescu, V.David, A.Medvedovici, D. De Vos, P.A.Jacobs, G.Poncelet, P.Gränge, *Metal-triflate ionic liquid systems immobilized onto mesoporous MS41 materials as new and efficient catalyst for N-acylation. Journal of Catalysis*, 249 (2), 359-369 (2007).
70. T.Galaon, A.Medvedovici, V.David, *Hydrophobicity parameter (log K_{ow}) estimation for some phenolic compounds of pharmaceutical interest from retention studies with mobile phase composition in RP-LC. Separation Science and Technology*, 43 (1), 147-163 (2008).
71. C.Georgita, F.Albu, A.Medvedovici, V.David, *Non-linear calibrations on the assay of diltiazem and two of its metabolites from plasma samples by means of liquid chromatography and ESI/MS² detection: application to a bioequivalence study. Biomedical Chromatography*, 22 (3), 289-297 (2008).
72. A.Medvedovici, D.I.Sora, S.Ionescu, M.Hillebrand, V.David, *Characterization of a new norfloxacin metabolite monitored during a bioequivalence study by means of mass-spectrometry and quantum computation. Biomedical Chromatography*, 22 (10), 1100-1107 (2008).
73. S.Udrescu, A.Medvedovici, V.David, *Effect of large volume injection of hydrophobic solvents on the*

- retention of less hydrophobic pharmaceutical solutes in RP-LC. Journal of Separation Science*, 31 (16-17), 2939-2945 (2008).
74. N.Hurduc, R.Enea, I.Moleavin, E.E.Iorgulescu, V.David, *Characterization of some polysiloxanes containing nucleobases and azobenzene groups in their side-chain or crown ether within polymeric chains by means of negative-ionization mass spectrometry with atmospheric pressure chemical ionization. Revue Roumaine de Chimie*, 53 (9), 777-785 (2008).
75. J.Petre, V.Iancu, V.David, *Benzene/water partition constants and thermodynamic parameters estimated from liquid chromatography retention of some herbicides using phenyl silica stationary phase. Revue Roumaine de Chimie*, 54 (4), 259-264 (2009).
76. T.Galaon, F.Tache, V.David, *Retention behaviour of two biguanidines in liquid chromatography based on cyano stationary phase. Revue Roumaine de Chimie*, 54 (5), 359-362 (2009).
77. D.I.Sora, V.Stefanescu, V.David, A.Medvedovici, *Validation of an LC-MS/MS assay of terpene trilactones in Ginkgo Biloba extracts and pharmaceutical formulations through standard additions method. Journal of Pharmaceutical and Biomedical Analysis*, 50 (3), 459-468 (2009).
78. A.Medvedovici, F.Albu, I.D.Sora, S.Udrescu, T.Galaon, V.David, *Assay of free captopril in human plasma as monobromobimane derivative, using RPLC/(+)ESI/MS/MS: validation aspects and bioequivalence evaluation. Biomedical Chromatography*, 23 (10), 1092-1100 (2009).
79. M.Albu, V.David, F.Tache, A.Medvedovici, *HPLC/DAD assay of related impurity ethyl-4-oxopiperidine-1-carboxylate in loratadine through derivatization with 2,4-dinitrophenylhydrazine. Journal of Liquid Chromatography and Related Technologies*, 32 (17), 2569-2583 (2009).
80. V.David, T.Galaon, E.Caiali, A.Medvedovici, *Competitional hydrophobicity driven separations under RP-LC mechanism: application to sulphonylurea congeners. Journal of Separation Science*, 32 (18), 3099-3106 (2009).
81. I.Sora, E.Cristea, F.Albu, S.Udrescu, V.David, A.Medvedovici, *Assay of untransformed quinapril and its metabolite quinaprilat for drug bioequivalence evaluation: prospective, concurrential and retrospective method validation. Bioanalysis*, Vol. 1 (1), 71-86 (2009).
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