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Afilieri: Societatea de Chimie Analitica din Romania (SCAR);

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Membru in Editorial Board:

- Journal of Essential Oil-Bearing Plants (revista ISI, India);
- Open Automation and Control Systems Journal (Bentham Publishers).

Activitate didactica, cursuri:

- Prelevare si Prepararea probelor in analiza de mediu (an III, Chimia Mediului);
- Calitate si Fiabilitate (an I Master, Optimizarea controlul chimico-analitic);
- Metode separare si analiza urmelor (an IV, Chimie, anii 2004-2006);
- Controlul analitic al poluanților mediului (an I Master, Controlul calității Mediului, anii 1995-2005).
- Conducere de Doctorat din anul 2005.

Domenii de competență:

- Metode spectrometrice si cromatografice de analiza;
- Modelare extra-analitica a proceselor de separare cromatografica;
- Chemometrie: Statistica și Teoria Informatiei in Chimia Analitica.

Lista lucrarilor publicate:

Cărți și capitole publicate în monografiile internaționale

1. S.C.Moldoveanu, V.David, **Sample Preparation in Chromatography**, Editura Elsevier, Amsterdam, 940 pagini, (2002).
2. 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).
3. 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).
4. 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).

5. V.I.Parvulescu, N.Grecu, L.Frunza, R.Barjegan, S.Coman, V.David, V.Parvulescu, R.Radu, *Hydroxylation of benzene and toluene using Bi-containing ZSM-zeolites as catalysts*. **Studies in Surface Science and Catalysis; Vol. 98: Zeolites and Related Microporous Materials, Recent Progress**, H.G.Karge, D.J.Weitkamp (eds.), Elsevier, Amsterdam, p. 153 (1995).
6. 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).
7. A.Medvedovici, A.Farca, V.David, Chapter: *Derivatization reactions in liquid chromatography for drug assaying in biological fluids*. **Advances in Chromatography** (Editori: E.Grushka, N.Grinberg), CRC Press - Francis & Taylor Publications, Boca Raton, USA, Vol. 47, 283-322 (2009).
8. A.Medvedovici, V.David, Chapter: *Pump/solvent delivery system design for HPLC*, in **Encyclopedia of Chromatography** (Editor: J.Cazes), Taylor & Francis Publications, New York, in print (2009), editie revizuita.
9. V.David, A.Medvedovici, Chapter: *HPLC: Sample introduction techniques*, in **Encyclopedia of Chromatography** (Editor: J.Cazes), Taylor & Francis Publications, New York, in print (2009), editie revizuita.

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 pagini (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.

Articole publicate în reviste 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-nitroso-diphenylamine 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).
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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. Chemia 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. Chemia Analityczna (Warsaw)*, 49 (2), 191-199 (2004).
45. V.David, F.Albu, A.Medvedovici, *Structure – retention correlation of some oxicam 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, F.Albu, A.Medvedovici, *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*

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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).
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69. S.M.Coman, M.Florea, V.I.Parvulescu, V.David, A.Medvedovici, D. De Vos, P.A.Jacobs, G.Poncelet, P.Grange, *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 Kow) 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, in press, 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, in press (2009).
77. 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, in press (2009).

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1. V.David, S.Moldoveanu, *Studiul caracterizării picurilor cromatografice cu ajutorul funcțiilor analitice*. **Buletinul Institutului Politehnic București**, seria Chimie, Tom XLI, nr. 1, 23-29 (1979).
2. V.David, S.Moldoveanu, *Studiu teoretic privind optimizarea funcțiilor analitice în analiza cantitativă cromatografică*. **Buletinul Institutului Politehnic București**, seria Chimie, Tom XLI, nr. 3, 55-58 (1979).
3. V.David, S.Moldoveanu, *Asupra problemei celor trei corpuri aplicată în cazul interacțiilor moleculare de lungă distanță*. **Buletinul Institutului Politehnic București**, seria Chimie, Tom XLIII, nr. 1, 47-50 (1981).
4. V.David, *An information representation of the spectral decoding process in qualitative analysis*.

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5. C.Matachescu, V.David, R.Olinescu, *The applications of chemiluminescence in the control of the environmental pollution*. **Roumanian Chemical Quarterly Reviews**, 6, 17-29 (1998).
6. V.Dumitrescu, V.David, C.I.Cazacu, *Polarographic determination of palladium in a solution of water – hexamethylphosphotriamide*. **Analele Universitatii Bucuresti**, XLVII, 21-26 (1998).
7. V.Dumitrescu, P.Lazar, V.David, *Improvement of the fluorescence sensitivity in determination of lead (II) as Pb(II)-Cryptand (2.2.2.) - Eosyne ternary system*. **Analele Universității București**, an VIII, 11-17 (1999).
8. V.Dumitrescu, C.Cercasov, V.David, *Determination of silver content in baths of photographic fixation by potentiometric titration*. **Analele Universității din București**, an XI (serie nouă), Vol. II, p. 85-87 (2002).
9. A.Medvedovici, F.Albu, V.David, *Parameters influencing the retention mechanism of raloxifen and its related impurities in high-performance liquid chromatography*. **Analele Universității București**, Vol. XIII (serie nouă), 1-2, p. 69-77 (2004).
10. A.Medvedovici, V.David, F.Tache, G.E.Baiulescu, P.Sandra, *CGC-MS separation and characterization of some natural fruit extracts*. **Proceedings of Sixteenth International Symposium on Capillary Chromatography**, Riva del Garda, Italy, Vol. I, p. 771-784 (1994).
11. 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), in press (2009).