

Author: Assoc. Prof. Dr. Dr. Monica Florescu

Habilitation thesis title: Innovative approaches for new diagnostic and therapy methodologies

Domain: Medicine

## PUBLICATIONS LIST

### RELEVANT PAPERS

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1. N. Sandu, C. G. Chilom, M. David, **M. Florescu\***, Evaluation of the interaction of levothyroxine with bovine serum albumin using spectroscopic and molecular docking studies, *Journal of Biomolecular Structure & Dynamics*, 2022. DOI: 10.1080/07391102.2020.1822919. FI. 5.235.
2. N. Cazacu, C. G. Chilom, M. David, **M. Florescu\***, Conformational changes in the BSA-LT4 complex induced by the presence of vitamins: spectroscopic approach and molecular docking, *International Journal of Molecular Sciences*, 2022, 23, 4215. DOI: 10.3390/ijms23084215. FI. 6.208.
3. M. David, A. Serban, T.A. Enache, **M. Florescu\***, Electrochemical quantification of levothyroxine at disposable screen-printed electrodes, *Journal of Electroanalytical Chemistry*, 2022, 911, 116240. DOI: 10.1016/j.jelechem.2022.116240. FI. 4.464.
4. N. Sandu, C. G. Chilom, **M. Florescu\***, Molecular insights into binding mechanism of rutin to bovine serum albumin–Levothyroxine complex: Spectroscopic and molecular docking approaches, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 2022, 264, 120261. DOI: 10.1016/j.saa.2021.120261. FI. 4.098.
5. C. G. Chilom, M. David, **M. Florescu\***, Monitoring biomolecular interaction between folic acid and bovine serum albumin, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2020, 230, 118074. DOI: 10.1016/j.saa.2020.118074. FI. 2.931.
6. M. David, A. Serban, C. Radulescu, A.F. Danet, **M. Florescu\***, Bioelectrochemical evaluation of plant extracts with antioxidant capacity using gold nanozyme-based sensors, *Bioelectrochemistry*, 129, 2019, 124-134. DOI: 10.1016/j.bioelechem.2019.05.011. FI. 4.474.
7. M. David, A. Serban, C.V. Popa, **M. Florescu\***, A Nanoparticle-Based Label-Free Sensor for Screening the Relative Antioxidant Capacity of Hydrosoluble Plant Extracts, *Sensors* 2019, 19(3), 590-605. DOI: 10.3390/s19030590. FI. 3.031.
8. C. G. Chilom, M. Bacalum, M. M. Stanescu, **M. Florescu\***, Insight into the interaction of human serum albumin with folic acid: A biophysical study, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2018, 204, 648–656. DOI: 10.1016/j.saa.2018.06.093. FI. 2.931.
9. M. David, M. M. Barsan, C. M.A. Brett, and **M. Florescu\***, Improved Glucose Label-Free Biosensor with Layer-by-Layer Architecture and Conducting Polymer poly(3,4-ethylenedioxythiophene), *Sensors and Actuators B: Chemical*, 255 (2018) 3227–3234. DOI: 10.1016/j.snb.2017.09.149. FI. 6.393.
10. **M. Florescu\***, M. David, Tyrosinase-based biosensor for selective dopamine detection, *Sensors* 2017, 17, 1314-1329; DOI:10.3390/s17061314. FI. 2.677.

### PhD THESIS

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**Monica Florescu:** Biophysical methods of detection of biologically active substances, University of Bucharest, 2007.

**Monica Moldovan (Florescu):** Contributions to the development of bioinstruities and their applications in medicine, Transilvania University of Brasov, 2019.

## PATENTS

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### Patent applications

1. M. Florescu, M. David, A. Serban, "Nanostructured electrochemical sensory platform, platform calibration method and method of use for portable, sensitive and selective detection of thyroxine content". RO135256/29.10.2021 (OSIM+EPO).
2. M. Florescu, M. David, A. Serban, "Process for electrochemical determination of the total antioxidant capacity of water-soluble vegetal extracts using a portable electrochemical platform with gold nanoparticles". RO133102/28.02.2019 (OSIM+EPO).

## BOOKS / BOOK CHAPTERS

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### BOOKS

#### **Books in national publishers - author/co-author**

1. **M. Florescu**, *Metode Biofizice de Analiza – Senzori si Biosenzori*, Editura Universitatii „Transilvania”, Brasov, 2008, ISBN 978-973-598-270-6. Nr. Pag. 114.
2. **M. Florescu**, A. Armaselu, N. Dihoiu, *Fizica Moleculara si Caldura*, Editura Universitatii „Transilvania”, Brasov, 2007, ISBN 978-973-598-069-6.
3. **M. Florescu**, S. Adam, N. Dihoiu, *Fizica Generala*, Editura Universitatii „Transilvania”, Brasov, 2007, ISBN 978-973-598-173-0.
4. **M. Florescu**, N. Dihoiu, *Biofizica si fizica generala-Lucrari practice*, Editura Universitatii „Transilvania”, Brasov, 2004, 142 pag, ISBN 973-635-317-6. Nr. Pag. 140.

#### **Books in national publishers - coordinator/editor**

1. **M. Florescu (Editor)**, *Biophysics for Biomedical and Environmental Sciences*, Transilvania University Press, Brasov, 2016, ISBN 978-606-19-0768-7.
2. **M Florescu (Editor)**, *Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences: Proceedings of IC-ANMBES 2010*, Transilvania University Press, Brasov, ISBN: 978-973-598-722-0.
3. M. Badea, **Florescu M., (Editors)**, *My first book on bioanalytical methods*, Ed. Universitatii Transilvania din Brasov, Brasov, 2010, 204 pg. ISBN 978-973-598-743-5.
4. M Badea., **Florescu M., Coman Gh. (Editors)**, *Bioanalytical Methods for Life Sciences. Immunochemical methods. Applied Bioanalytical Methods in Medicine, Food Control and Environmental Protection*, Ed. Universitatii Transilvania din Brasov, Brasov, 2010, ISBN 978-973-598-724-4. Nr. Pag. 208.
5. M. Badea, **Florescu M. (Editors)**, *Bioanalytical Methods for Life Sciences. Chromatography. Sensors and Biosensors*, Ed. Universitatii Transilvania din Brasov, Brasov, 2010, ISBN 978-973-598-723-7. Nr. Pag. 142.
6. M. Badea, **Florescu M. (Editors)**, *Multilanguages Glossary of Keywords specific to Bioanalytical Methods for Life Sciences*, Ed. Universitatii Transilvania din Brasov, Brasov, 2010, ISBN 978-973-598-725-1. Nr. Pag. 152
7. **M. Florescu**, C. Stih, **(Editors)**, *Methods and techniques used in forest fires and environmental monitoring*, Transilvania University Press, Brasov, 2007, ISBN 978-973-598-156-3 (pp: 9-12, 29-43, 48-51, 56-74, 75-81, 82-92,). Nr. Pag. 120.
8. **M. Florescu**, B. Horvath, **(Editors)**, *Methods and techniques used in forest fires and environmental monitoring - Laboratory book*, Transilvania University Press, Brasov, 2007, ISBN 978-973-598-168-6 (65-69).Nr. pag. 96

9. **M. Florescu, C. Stihi, (Editors)**, *Metode si tehnici de monitorizare si prevenire a incendiilor forestiere*, Editura Universitatii Transilvania, Brasov, 2007, ISBN 978-973-598-155-6 (pp: 9-12, 12-16, 17-20, 31-32, 49-53, 54-56, 81-90, 90-107). Nr. Pag. 140.
10. **M. Florescu, B. Horvath, (Editors)**, *Metode si tehnici de monitorizare si prevenire a incendiilor forestiere - Aplicatii practice*, Editura Universitatii Transilvania, Brasov, 2007, ISBN 978-973-598-169-3 (pp: 41-48). Nr. Pag. 60

### **Books of abstracts of International Conferences - Editor**

1. **M Florescu, A. Matagne, I. Turcu (Editors)**, *Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences: Brasov, IC-ANMBES 2022*, Transilvania University Press, Brasov, ISSN 2360-3461, ISSN-L 2360-3461.
2. **M Florescu, V Raicu, I. Turcu (Editors)**, *Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences: Brasov, IC-ANMBES 2018*, Transilvania University Press, Brasov, ISSN 2360-3461, ISSN-L 2360-3461.
3. **M Florescu, V Raicu, S. Le Gac, I. Turcu, JL Marty (Editors)**, *Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences: Brasov, IC-ANMBES 2016*, Transilvania University Press, Brasov, ISSN 2360-3461, ISSN-L 2360-3461.
4. **M Florescu, V Raicu, JL Marty, I. Turcu (Editors)**, *Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences: Brasov, IC-ANMBES 2014*, Transilvania University Press, Brasov, ISSN 2360-3461, ISSN-L 2360-3461.
5. **M Florescu, M Badea, JL Marty, V Raicu (Editors)**, *Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences: Brasov, IC-ANMBES 2012*, Transilvania University Press, Brasov, ISBN 978-606-19-0072-5.
6. **M Florescu, M Badea, JL Marty, V Raicu (Editors)**, *Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences: Brasov, IC-ANMBES 2010*, Transilvania University Press, Brasov, ISBN 978-973-598-722-0.

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1. M. David, **M. Florescu**, Biomolecular interaction evaluation using surface plasmon resonance. SPR biosensors, in: *Biophysics for Biomedical and Environmental Sciences* (Edited by Monica Florescu), pp. 211-223, Transilvania University Press, Brasov, 2016, ISBN 978-606-19-0768-7.
2. **M. Florescu**, Biosensors as molecular diagnostic tool for early detection of cancer protein biomarkers, in: *Methods for Diseases Diagnostic with Applicability in Practice*, Edited by Antonella Chesca, LAP Lambert Academic Publishing, 2014, ISBN 3847345028, 978-3-8473-4502-2.
3. M. David, **M. Florescu**, M. M. Barsan, L. Tugulea and C. M.A. Brett, Development and Characterization of Layer-by-Layer Biosensors Based on PEI(+)/GOx(-) Layers Using Label-Free Methods, in *Sensing in Electroanalysis*, Vol. 8 (K. Kalcher, R. Metelka, I. Švancara, K. Vytrās; Eds.), pp. 329-346. 2013/2014 University Press Centre, Pardubice, Czech Republic. ISBN 978-80-7395-782-7 (printed); 78-80-7395-783-4 (pdf).
4. V. Veregut, **M. Florescu**, M. Badea, Classic and modern methods for detection of serotonin, in *Sensing in Electroanalysis*. Volume 7 (K. Kalcher, R. Metelka, I. Švancara, K. Vytrās; Eds.). pp. 97-106, 2012, University Press Centre, Pardubice, Czech Republic. ISBN 978-80-7395-563-2 (printed); 978-80-7395-564-9 (on-line).
5. V. Buzea, **M Florescu**, M Badea, Detection of heavy metals in biological samples through anodic stripping voltammetry, in *Sensing in Electroanalysis*. Volume 7 (K. Kalcher, R. Metelka, I. Švancara, K. Vytrās; Eds.). pp. 97-106, 2012, University Press Centre,

- Pardubice, Czech Republic. ISBN 978-80-7395-563-2 (printed); 978-80-7395-564-9 (on-line).
6. **M. Florescu**, Label free biosensors in human molecular diagnostics of diseases, pag. 135-147, in *Diagnostic Methods in Human Pathology*, Edited by Antonella Chesca, Transilvania University Press, Brasov, ISBN 978-606-19-0059-6, 2012.
  7. M. David, M. Badea, **M. Florescu**, Performance evaluation of acetylcholinesterase-based biosensors for heavy metal detection, in: *Sensing in Electroanalysis*, Vol. 6 (K. Kalcher, R. Metelka, I. Švancara, K. Vytrás; Eds.), pp. 337-346. 2011 University Press Centre, Pardubice, Czech Republic. ISBN 978-80-7395-434-5 (printed); 978-80-7395-435-2 (on-line).
  8. Badea M., Idomir M., **Florescu M.**, Rogozea L., Electrochemical sensing in telemedicine, in *Sensing in Electroanalysis*, in: *Sensing in Electroanalysis*, Vol. 6 (K. Kalcher, R. Metelka, I. Švancara, K. Vytrás; Eds.), pp. 337-346. 2011 University Press Centre, Pardubice, Czech Republic. ISBN 978-80-7395-434-5 (printed); 978-80-7395-435-2 (on-line).
  9. **M. Florescu**, Biophysical methods used for molecular diagnostics in human pathology, in *Methods for Cellular and Molecular Diagnostics in Human Pathology*, Eds. A. Chesca si M. Ozturk, Istanbul University Press House, 2011. ISBN 978-975-404-895-7.
  10. **M. Florescu**, Mass sensitive sensors and EQCM application in life sciences in *Bioanalytical Methods for Life Sciences. Chromathography. Sensors and Biosensors*, Eds. M. Badea, M. Florescu, Transilvania University Press, 2010. ISBN 978-973-598-723-7.
  11. Švancara, **M. Florescu**, L. Baldrianová, E. Svobodová, M. Stočes, M. Badea, Carbon Paste Electrodes Modified with a Hydrolytic Product Obtained from an Antimony (III) Salt, in: *Sensing in Electroanalysis, Vol. 5*, Eds: K. Vytrás, K. Kalcher, I. Svancara, University Press Centre, Pardubice, Czech Republic, 2010. ISBN 978-80-7395-348-5 (printed); 978-80-7395-349-2 (on-line).
  12. **M. Florescu**, Dielectric spectroscopy and dielectrophoretic separation methods used in biomedical applications, in *Bioanalytical Methods for Life Sciences. Chromathography. Sensors and Biosensors*, Eds. M. Badea, M. Florescu, Transilvania University Press, 2010. ISBN 978-973-598-723-7.
  13. M. Badea, **M. Florescu**, Gh. Coman, N. Taus, J.-L. Marty, Characterisation of electrochemical sensors and enzymatic methods used for ascorbic acid detection, in: *Sensing in Electroanalysis, Vol. 4*, Eds: K. Vytrás, K. Kalcher, I. Svancara, University Press Centre, Pardubice, Czech Republic, 2009. ISBN 978-80-7395-9.
  14. M. Badea, **M. Florescu**, Gh. Coman, A. Chesca, J.-L. Marty, Comparative Studies for Pollutants Detection Using Electrochemical Sensors and Enzyme-Based Biosensors in: *Sensing in Electroanalysis, Vol. 4*, Eds: K. Vytrás, K. Kalcher, I. Svancara, University of Pardubice, 2009. ISBN 978-80-7395-9.
  15. M. Badea, **M. Florescu**, Ghe. Coman, „Immunofluorescence” in *Analytical biotechnology. Principles and applications*, Editura Universitatii Transilvania Brasov, 2004, ISSN 1584-0506, ISBN 973-635-393-1. Nr. Pag. 7.

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 JOURNAL ARTICLES
 

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Nr. Crt.	Articles in journals ISI Web of Science - main author	Impact factor
1	<b>M. Florescu</b> and A. Katerkamp, <i>Optimisation of a polymer membrane used in optical oxygen sensing</i> , <b>Sensors and Actuators B</b> 97 (2004) 39–44, DOI: 10.1016/S0925-4005(03)00603-8	2.083

2	<b>M. Florescu</b> and C.M.A. Brett, <i>Development and characterization of cobalt hexacyanoferrate modified carbon electrodes for electrochemical biosensors</i> , <b>Analytical Letters</b> Vol. 37, No. 5, pp. 871–886, 2004, DOI: 10.1081/AL-120030284	1.165
3	<b>M. Florescu</b> and C.M.A. Brett, <i>Development and evaluation of electrochemical enzyme biosensors based on carbon film electrodes</i> , <b>Talanta</b> 65 (2005) 306–312, doi: 10.1016/j.talanta.2004.07.003	2.391
4	<b>M. Florescu</b> , M. Barsan, R. Pauliukaite, C. M.A. Brett, <i>Development and application of oxysilane sol–gel electrochemical glucose biosensors based on cobalt hexacyanoferrate modified carbon film electrodes</i> , <b>Electroanalysis</b> 19, 2007, No. 2-3, 220 – 226, DOI: 10.1002/elan.200603714	2.949
5	<b>M. Florescu</b> and C.M.A. Brett, <i>Evaluation of cobalt hexacyanoferrate modified carbon film electrodes for electrochemical glucose biosensors</i> , <b>Revue Roumaine de Chimie</b> , 2007, 52(10), 969–974. WOS:000257405600007	0.262
6	<b>M. Florescu</b> and C.M.A. Brett, <i>Nanostructured biosensors development for environmental measurements</i> , <b>Journal of Optoelectronics and Advanced Materials</b> Vol. 10, No. 3, March 2008, 713 - 716. WOS:000254588800050	0.577
7	<b>M. Florescu</b> , M. Badea, Untitled, Editorial Material, <b>Analytical Letters</b> , 2011, 44(8), 2841-2842. WOS:000298081200001	1.150
8	<b>M. Florescu*</b> , <i>Third International Conference: Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2014) June 13-15, 2014, Brasov, Romania</i> , <b>Analytical Letters</b> , VOL. 49,(3), 2016, 331-334. DOI: 10.1080/00032719.2015.1070167	1.150
9	<b>M. Florescu</b> , W. Hu, <i>Evaluation of Si nanowire as biosensing device</i> , <b>Journal of optoelectronics and advanced materials</b> , Vol. 17, No. 7-8, July – August 2015, p. 1092 - 1098, ISSN: 1454 – 4164, eISSN: 1841-7132. WOS:000359967600030	0.383
10	C. Rădulescu, C. Stihî, M. Ilie, D. Lazurcă, R. Gruia, O. T. Olaru, O. Bute, I. D. Dulamă, R. Ştirbescu, S. Teodorescu, <b>M. Florescu*</b> , <i>Characterization of Phenolics in Lavandula angustifolia</i> , <b>Analytical Letters</b> , VOL. 50,(17), 2017, 2839–2850. <a href="http://dx.doi.org/10.1080/00032719.2016.1264409">http://dx.doi.org/10.1080/00032719.2016.1264409</a>	1.150
11	<b>M. Florescu*</b> , <i>4th International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2016: June 29-July 1, 2016, Brasov - Romania</i> ( <a href="http://icanmbes.unitbv.ro">http://icanmbes.unitbv.ro</a> ), <b>Analytical Letters</b> , VOL. 50 (17), 2017, 2661-2664. <a href="https://doi.org/10.1080/00032719.2017.1354869">https://doi.org/10.1080/00032719.2017.1354869</a>	1.206
12	<b>M. Florescu*</b> , M. David, <i>Tyrosinase-based biosensor for selective dopamine detection</i> , 2017, <b>Sensors Journal</b> , 2017, 17, 1314; doi:10.3390/s17061314.	2.677
13	<b>M. Florescu*</b> , C. Stihî, C. Rădulescu, I. D. Dulamă, O. Bute, R. Ştirbescu, S. Teodorescu, A. Serban, <i>Mineral composition of lavandula angustifolia flowers and hippophae rhamnoides fruits extracts</i> , <b>Journal of Science and Arts</b> , 4(41), 2017, 789-794. WOS:000418405300020	0.000

14	M. David, M. M. Barsan, C. M.A. Brett, and <b>M. Florescu*</b> , <i>Improved Glucose Label-Free Biosensor with Layer-by-Layer Architecture and Conducting Polymer poly(3,4-ethylenedioxythiophene)</i> , 2018, <b>Sensors and Actuators B Chem.</b> , 255, 2018, 3227-3234. <a href="https://doi.org/10.1016/j.snb.2017.09.149">https://doi.org/10.1016/j.snb.2017.09.149</a>	6.393
15	M. David, M. Badea, <b>M. Florescu*</b> , <i>Development and evaluation of sol-gel-based biosensors for cadmium ions detection</i> , <b>Environmental Engineering and Management Journal</b> , 17(2), 2018. WOS:000427084800008	1.186
16	C. G. Chilom, M. Bacalum, M. M. Stanescu, <b>M. Florescu*</b> , <i>Insight into the interaction of human serum albumin with folic acid: A biophysical study</i> , <b>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</b> , 2018, 204, 648–656. DOI: 10.1016/j.saa.2018.06.093	2.931
17	M. David, A. Serban, C. V. Popa, <b>M. Florescu*</b> , <i>A Nanoparticle-Based Label-Free Sensor for Screening the Relative Antioxidant Capacity of Hydrosoluble Plant Extracts</i> , <b>Sensors</b> 2019, 19(3), Article Number: 590. DOI: 10.3390/s19030590	3.031
18	M. David, A. Serban. C. Radulescu, A. F. Danet, <b>M. Florescu*</b> , <i>Bioelectrochemical evaluation of plant extracts and gold nanozyme-based sensors for total antioxidant capacity determination</i> , <b>Bioelectrochemistry</b> , 2019, 129, 124-134. DOI: 10.1016/j.bioelechem.2019.05.011	4.474
19	<b>M. Florescu</b> , L. Rogozea, <i>Comment from the Editors on the Special Issue: Advanced Analytical Methods in Clinical Diagnosis and Therapy</i> , <b>Journal of Clinical Medicine</b> , 2019, 8(11), DOI: 10.3390/jcm8111936	4.242
20	I. Milosan, <b>M. Florescu*</b> et. al., <i>Electrochemical Evaluation of Heat-Treated AISI 316 Stainless Steel in Solar Furnaces to be used as possible implant material</i> , <b>Materials</b> , 2020, 13, 581; DOI: 10.3390/ma13030581.	2.972
21	C. G. Chilom, M. David, <b>M. Florescu*</b> , <i>Monitoring biomolecular interaction between folic acid and bovine serum albumin</i> , <b>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</b> , 2020, 230, 118074. DOI: 10.1016/j.saa.2020.118074.	2.931
22	M. David, A. C. Chebac, M.G. Chirita, M.J. Carezim, C. Santos, <b>M. Florescu*</b> , <i>An impedimetric sensor for levothyroxine detection towards point of care applications</i> , <b>IEEE 2021 International Workshop on Impedance Spectroscopy (IWIS)</b> , 2021, 99-103, DOI: 10.1109/IWIS54661.2021.9711839.	0.000
23	M. David, I. Budziak-Wieczorek, D. Karcz, <b>M. Florescu*</b> , A. Matwijczuk, <i>Insight into dual fluorescence effects induced by molecular aggregation occurring in membrane model systems containing 1,3,4-thiadiazole derivatives</i> , <b>European Biophysics Journal with Biophysics Letters</b> , 2021, 50(8), 1083-1101. DOI: 10.1007/s00249-021-01569-7	1.733
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25	M. David, A. Serban, T.A. Enache, <b>M. Florescu*</b> , <i>Electrochemical quantification of levothyroxine at disposable screen-printed electrodes</i> , <b>Journal of Electroanalytical Chemistry</b> , 2022, 911, 116240. DOI: 10.1016/j.jelechem.2022.116240	4.464
26	N. Cazacu, C. G. Chilom, M. David, <b>M. Florescu*</b> , <i>Conformational changes in the BSA-LT4 complex induced by the presence of vitamins: spectroscopic approach and molecular docking</i> , <b>International Journal of Molecular Sciences</b> , 2022, 23, 4215. DOI: 10.3390/ijms23084215.	6.208
27	N. Sandu, C. G. Chilom, M. David, <b>M. Florescu*</b> , <i>Evaluation of the interaction of levothyroxine with bovine serum albumin using spectroscopic and molecular docking studies</i> , <b>Journal of Biomolecular Structure &amp; Dynamics</b> , 2022, 40(3), 1139-1151. DOI: 10.1080/07391102.2020.1822919	5.235

Nr. Crt.	Articles in journals ISI Web of Science - Coautor	Impact factor
1	S. De Luca, <b>M. Florescu</b> , M.E. Ghica, A. Lupu, G. Palleschi, C.M.A. Brett and D. Compagnone, <i>Carbon film electrodes for oxidase-based enzyme sensors in food analysis</i> , <b>Talanta</b> 68 (2005) 171–178, DOI: 10.1016/j.talanta.2005.06.017	2.391
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3	F. N. Crespilho, M. E. Ghica, <b>M. Florescu</b> , F. C. Nart, O. N. Oliveira, Jr. C. M.A. Brett, <i>A strategy for enzyme immobilization on layer-by-layer dendrimer–gold nanoparticle electrocatalytic membrane incorporating redox mediator</i> , <b>Electrochemistry Communications</b> 8 (2006) 1665–1670, DOI: 10.1016/j.elecom.2006.07.032	3.484
4	M. M. Barsan, E. M. Pinto, <b>M. Florescu</b> , and C. M.A. Brett, <i>Development and characterization of a new conducting carbon composite electrode</i> , <b>Analytica Chimica Acta</b> 635 (2009) 71–78, doi: 10.1016/j.aca.2009.01.012	3.757
5	M.R. Stoneman, <b>M. Florescu</b> , M.P. Fox, W.D. Gregory, A. Hudetz, V. Raicu, <i>Non-Debye dielectric behaviour and near-field interactions in biological tissues: when structure meets function</i> , <b>Journal of Non-Crystalline Solids</b> 356 (2010) 772–776, doi: 10.1016/j.jnoncrysol.2009.06.056	1.492
6	L. Floroian, F. Sima, <b>M. Florescu</b> , M. Badea, A.C. Popescu, N. Serban, I.N. Mihailescu, <i>Double layered nanostructured composite coatings with bioactive silicate glass and polymethylmetacrylate for biomimetic implant application</i> , <b>Journal of Electroanalytical Chemistry</b> 648 (2010) 111–118, doi: 10.1016/j.jelechem.2010.08.005	2.733
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