

Fișa de îndeplinire a standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare-dezvoltare

(anexa nr. 4 – COMISIA DE Chimie a CNADTCU la Ordinul din 20.12.2016 emis de Ministerul Educației Naționale și Cercetării Științifice)

Domeniul: Chimie

Domeniul declarat: Chimie Analitică, Electrochimie

Criterii generale

Categorie	Nmax	FIC	FICD [*]	FICAP	FICAC	h index
Profesor/CS1/Abilitare	50	100	70	50	25	13
Bucur Bogdan (FI/an publicare)	43	101.385	84.937	83.363	62.325	17
Bucur Bogdan (FI/2024)	39	151.7	130.3	122	77.1	17

Nmax –primele maxim N lucrări, organizate în ordinea descrescătoare a factorilor de impact ai revistelor în care au fost publicate;

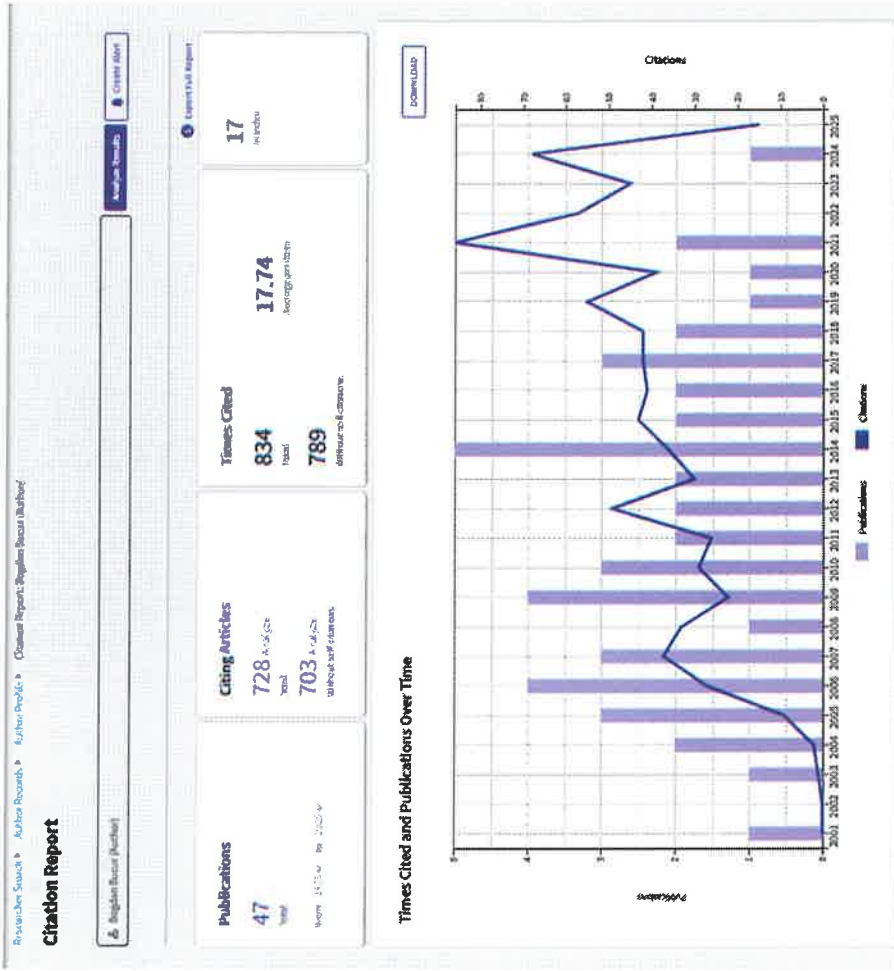
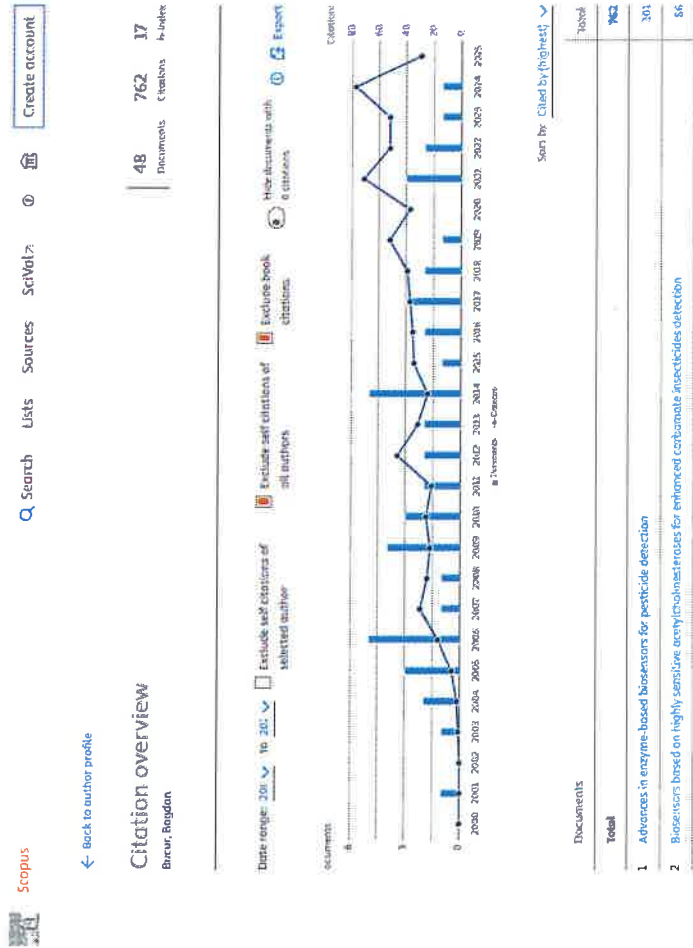
FIC – factorul de impact cumulat minimal al revistelor în care s-au publicat lucrările în cauză

FICD – factorul de impact cumulat minimal din publicații în domeniile de cercetare declarate;

FICAP - factorul de impact cumulat minimal din publicații în calitate de autor principal (prim-autor și autor de corespondență);

FICAC - factorul de impact cumulat minimal din publicații în calitate de autor de corespondență;

Index h= 17 fără autocitări (Scopus și WOS pentru Bucur Bogdan)



**Lista celor 43 articole din Nmax permise si punctajele obtinute pentru indeplinirea standardelor si criteriilor minimele pentru abilitare.
FI conform Journal Citation Reports™ (Clarivate) din anul publicarii articolului**

Nr	Numele autorilor, Titlul articolului, Revista, An, volum, pagini, DOI, link	Domeniul WOS	Fi/ anul	FIC	FICD	FICAP	FICAC
1	M. C. Radulescu, M. P. Bucur, B. Bucur* , A. Iosageanu, G. L. Radu: "4-Phenyl isothiocyanate modified electrode based on diazonium electrodeposition for heavy metals detection in pharmaceuticals" Talanta, 295, 128339 (2025). DOI: 10.1016/j.talanta.2025.128339 link	CHEMISTRY, ANALYTICAL	6.1/ 2024	6.1	6.1	6.1	6.1
2	M. C. Radulescu, M. P. Bucur, B. Bucur* , G. L. Radu: "Ester flavorants detection in foods with a bienzymatic biosensor based on a stable Prussian blue-copper electrodeposited on carbon paper electrode", Talanta. 2019,199, 541–546, DOI: 10.1016/j.talanta.2019.02.094 link	CHEMISTRY, ANALYTICAL	5.339/ 2021	5.339	5.339	5.339	5.339
3	M. C. Radulescu, M. P. Bucur, G. L. Radu, B. Bucur* : "Cavitation-Effect-Based Treatments and Extractions for Superior Fruit and Milk Valorisation" Molecules 2023, 28, 4677, DOI: 10.3390/molecules28124677 link	CHEMISTRY, MULTIDISCIPLINARY	4.2/ 2023	4.2	-	4.2	4.2
4	B. Bucur , E. Mallat, A. M. Gurban, Y. Gocheva, C. Velasco, J. L. Marty, T. Noguer: "Strategies to develop malic acid biosensors based on malate quinone oxidoreductase (MQO)", Biosensors and Bioelectronics, 21(12), 2290-2297, 2006; DOI: 10.1016/j.bios.2005.10.022 link	CHEMISTRY, ANALYTICAL	4.132/ 2006	4.132	4.132	4.132	-
5	M.C. Radulescu, M.P. Bucur, B. Bucur* , G.L. Radu: „Biosensor based on inhibition of monoamine oxidases A and B for detection of β -carbolines”, Talanta 137, 94–99, 2015; DOI: 10.1016/j.talanta.2015.02.013 link	CHEMISTRY, ANALYTICAL	4.035/ 2015	4.035	4.035	4.035	4.035
6	M. C. Radulescu, M. P. Bucur, B. Bucur* , G. L. Radu: "Electrochemical Detection Of Heavy Metals In Raw Materials Using a Glassy Carbon Electrode Modified With 4-Aminothiophenol", Journal of The Electrochemical Society, 169, 106513, 2022, DOI: 10.1149/1945-7111/ac9716 link	ELECTROCHEMISTRY	3.9/ 2022	3.9	3.9	3.9	3.9
7	B. Bucur , C. Purcarea, S. Andreeanu, A. Vasilescu: "Addressing the selectivity of enzyme biosensors: Solutions and perspectives", Sensors, 21(9),3038, 2021, DOI: 10.3390/s21093038 link	CHEMISTRY, ANALYTICAL	3.847/ 2021	3.847	3.847	3.847	-

8	M. C. Radulescu, M. P. Bucur, B. Bucur* , G. L. Radu: "Acetylcholinesterase and butyrylcholinesterase co-immobilized on a copper containing Prussian blue modified electrode for the broad screening of insecticides" Analytical Bioanalytical Chemistry, 416, 5059–5070 (2024). DOI: 10.1007/s00216-024-05443-1 link	CHEMISTRY, ANALYTICAL	3.8/2024	3.8	3.8	3.8	3.8
9	O. I. Covaci, A. Sassolas, G. A. Alonso, R. Muñoz, G. L. Radu, B. Bucur , J.-L. Marty: "Highly sensitive detection and discrimination of LR and YR microcystins based on protein phosphatases and an artificial neural network", Analytical and Bioanalytical Chemistry, 404, 711–720, 2012, DOI: 10.1007/s00216-012-6092-6 link	CHEMISTRY, ANALYTICAL	3.659/2012	3.659	3.659	-	-
10	B. Bucur , A. F. Danet, J.-L. Marty: "Versatile method of cholinesterase immobilisation via affinity bonds using Concanavalin A applied to the construction of a screen-printed biosensor", Biosensors and Bioelectronics, 20(2), 217–225, 2004; DOI: 10.1016/j.bios.2004.02.024 link	CHEMISTRY, ANALYTICAL	3.251/2004	3.251	3.251	3.251	-
11	A. Chira, B. Bucur* , M. P. Bucur, G. L. Radu: "Electrode-modified with nanoparticles composed of 4,4'-bipyridine-silver coordination polymer for sensitive determination of Hg(II), Cu(II) and Pb(II)", New Journal of Chemistry, 38(11), 5641–5646, 2014 DOI: 10.1039/c4nj01245c link	CHEMISTRY, MULTIDISCIPLINARY	3.086/2014	3.086	3.086	3.086	3.086
12	M.-P. Bucur, B. Bucur* , G.-L. Radu: "Simple, selective and fast detection of acrylamide based on glutathione S-transferase", RSC Advances, 8, 23931–23936, 2018; DOI: 10.1039/C8RA02252F link	CHEMISTRY, MULTIDISCIPLINARY	3.049/2018	3.049	3.049	3.049	3.049
13	Rusen, A. Diacon, A. Mocanu, F. Rizea, B. Bucur* , M. P. Bucur, G.-L. Radu, E. Bacalum, M. Cheregi, V. David: "Synthesis and retention properties of molecularly imprinted polymers for antibiotics containing a 5-nitrofurazone ring", RSC Advances, 2017, 7, 50844–50852, DOI: 10.1039/c7ra10196a link	CHEMISTRY, MULTIDISCIPLINARY	2.936/2017	2.936	2.936	2.936	2.936
14	M. P. Bucur, B. Bucur* , E. Bacalum, V. David, G. L. Radu: "Ternary water-organic solvent mixtures used for insecticide SPE extraction and analysis with acetylcholinesterase biosensor", Analytical Biochemistry, 654, 2022, 114843, DOI: 10.1016/j.ab.2022.114843 link	CHEMISTRY, ANALYTICAL	2.9/2022	2.9	2.9	2.9	2.9
15	M. P. Dondoi, B. Bucur , A. F. Danet, C. N. Toader, L. Barthelmebs, J. L. Marty: "Organophosphorous insecticides extraction and oxidation on column for analysis with a acetylcholinesterase (AChE) biosensor", Analytica Chimica Acta, 578(2), 162–169, 2006; DOI: 10.1016/j.aca.2006.07.002 link	CHEMISTRY, ANALYTICAL	2.894/2006	2.894	2.894	-	-
16	B. Bucur , D. Fournier, A. F. Danet, J.-L. Marty: "Biosensors based on highly sensitive acetylcholinesterases for enhanced carbamate insecticides detection", Analytica Chimica Acta, 562(1), 115–121, 2006; DOI: 10.1016/j.aca.2005.12.060	CHEMISTRY, ANALYTICAL	2.894/2006	2.894	2.894	2.894	-

	link	CHEMISTRY, ANALYTICAL	2.760/ 2005	2.76	2.76	2.76	
17	B. Bucur , M. Dondoi, A. F. Danet, J.-L. Marty: "Insecticide identification using a FIA system with biosensors based on various cholinesterases", <i>Analytica Chimica Acta</i> , 539, 195-201, 2005; DOI: 10.1016/j.aca.2005.03.026 link	CHEMISTRY, ANALYTICAL	2.760/ 2005	2.76	2.76	2.76	-
18	B. Bucur , A. F. Danet, J.-L. Marty: "Cholinesterase immobilisation on the surface of screen-printed electrodes based on Concavalin A affinity", <i>Analytica Chimica Acta</i> , 530(1), 1-6, 2005; DOI: 10.1016/j.aca.2004.09.009 link	CHEMISTRY, ANALYTICAL	2.760/ 2005	2.76	2.76	2.76	-
19	O. I. Covaci, B. Bucur *, M. P. Bucur, G. L. Radu: "Optimization of acetylcholinesterase immobilization on microelectrodes based on nitrophenyl diazonium for sensitive organophosphate insecticides detection", <i>Microchimica Acta</i> , 169(3), 335-343, 2010; DOI: 10.1007/s00604-010-0336-y link	CHEMISTRY, ANALYTICAL	2.578/ 2010	2.578	2.578	2.578	2.578
20	A. Chira, B. Bucur *, G.-L. Radu: "Investigation of the corrosion inhibition properties of new phenyl aldehyde organic layers functionalized with different amino alcohols electrodeposited on copper", <i>Comptes Rendus Chimie</i> , 2021, 24(1), 21-31 DOI: 10.5802/crchim.59 link	CHEMISTRY, MULTIDISCIPLINARY	2.550/ 2021	2.55	-	2.55	2.55
21	A. Chira, B. Bucur *, G.-L. Radu: "Electrodeposited Organic Layers Formed from Aryl Diazonium Salts for Inhibition of Copper Corrosion", <i>Materials</i> , 10, 235, 2017; DOI: 10.3390/ma10030235 link	CHEMISTRY, PHYSICAL	2.467/ 2017	2.467	-	2.467	2.467
22	M. C. Radulescu, M. P. Bucur, B. Bucur *, G. L. Radu: "Rapid Determination of 5-Nitrofurazone Antibiotics in Complex Samples Using a Boron-Doped Diamond Electrode and Differential Pulse Voltammetry", <i>Analytical Letters</i> , 2021, 54(14), 2363-2375, DOI: 10.1080/00032719.2020.1862140 link	CHEMISTRY, ANALYTICAL	2.267/ 2021	2.267	2.267	2.267	2.267
23	M. C. Radulescu, B. Bucur , M. P. Bucur, G. L. Radu: "Biosynthetic Biosensor for Rapid Detection of Aspartame by Flow Injection Analysis", <i>Sensors</i> , 14, 1028-1038, 2014 DOI: 10.3390/s140101028 link	CHEMISTRY, ANALYTICAL	2.245/ 2014	2.245	2.245	-	-
24	M. P. Bucur, B. Bucur *, G. L. Radu: "Critical Evaluation of Acetylthiocholine Iodide and Acetylthiocholine Chloride as Substrates for Amperometric Biosensors Based on Acetylcholinesterase", <i>Sensors</i> , 13, 1603-1613, 2013, DOI:10.3390/s130201603 link	CHEMISTRY, ANALYTICAL	2.048/ 2013	2.048	2.048	2.048	2.048
25	B. Bucur *: "Technological Barriers in the Use of Electrochemical Microsensors and Microbiosensors for in vivo Analysis of Neurological Relevant Substances", <i>Current Neuropharmacology</i> , 10(3), 197-211, 2012 DOI: 10.2174/157015912803217350 link	NEUROSCIENCES	2.031/ 2012	2.031	-	2.031	2.031

26	I. Mihai, A. Vezeanu, C. Polonschii, S. David, S. Gáspár, B. Bucur , C. Blaszykowski, S. Sheikh, M. Thompson, A. Vasilescu: "Low-Fouling SPR Detection of Lysozyme and Its Aggregates", Analytical Methods 2014, 6, 7646–7654 DOI: 10.1039/C4AY01237B link	CHEMISTRY, ANALYTICAL	1.821/ 2014	1.821	1.821	-	-
27	M. C. Radulescu, A. Chira, M. Radulescu, B. Bucur , M. P. Bucur, G. L. Radu: "Determination of Silver(I) by Differential Pulse Voltammetry Using a Glassy Carbon Electrode Modified with Synthesized N-(2-Aminoethyl)-4,4'-Bipyridine", Sensors, 10(12), 11340-11351, 2010; DOI: 10.3390/s101211340 link	CHEMISTRY, ANALYTICAL	1.774/ 2011	1.774	1.774	-	-
28	G. García-Martínez, E.A. Bustabad, H. Perrot, C. Gabrielli, B. Bucur , M. Lazerges, D. Rose, L. Rodríguez-Pardo, J. Fariña, C. Compère, A.A. Vives: "Development of a Mass Sensitive Quartz Crystal Microbalance (QCM)-Based DNA Biosensor Using a 50 MHz Electronic Oscillator Circuit" Sensors, 11(8), 7656-7664, 2011, DOI:10.3390/s110807656 link	CHEMISTRY, ANALYTICAL	1.739/ 2011	1.739	1.739	-	-
29	B. Bucur *, G. L. Radu, C. N. Toader: "Analysis of methanol-ethanol mixtures from falsified beverages using a dual biosensors amperometric system based on alcohol dehydrogenase and alcohol oxidase", European Food Research and Technology, 226, 1335-1342, 2008; DOI: 10.1007/s00217-007-0662-4 link	FOOD SCIENCE & TECHNOLOGY	1.622/ 2008	1.622	-	1.622	1.622
30	A. Chira, B. Bucur *, M.C. Radulescu, T. Galaon, G.L. Radu: "Study of Electrochemically Modified Electrode with Synthesized N-benzyl-4,4'-bipyridine with Anti-Fouling Properties for Oxygen and Hydrogen Peroxide Detection", International Journal of Electrochemical Science, 9, 4493 - 4511, 2014 DOI:10.1016/S1452-3981(23)08108-7 link	ELECTROCHEMISTRY	1.500/ 2014	1.5	1.5	1.5	1.5
31	M. C. Radulescu, B. Bucur , M. P. Bucur, G. L. Radu: "Quality control method based on quartz crystal microbalance and WGA for flour milled from germinated wheat", European Food Research and Technology, 229, 833–840, 2009; DOI: 10.1007/s00217-009-1120-2 link	FOOD SCIENCE & TECHNOLOGY	1.370/ 2009	1.37	-	-	-
32	O. I. Covaci, B. Bucur *, G. L. Radu: "Acrolein detection based on alcohol dehydrogenase inhibition", International Journal of Environmental Analytical Chemistry, 93(3), 325-334, 2013 DOI:10.1080/03067319.2011.581374 link	CHEMISTRY, ANALYTICAL	1.321/ 2013	1.321	1.321	1.321	1.3
33	M.P. Bucur, M.C. Radulescu, B. Bucur *, G.L. Radu: „Low-interferences Determination of the Antioxidant Capacity in Fruits Juices Based on Xanthine Oxidase and Mediated Amperometric Measurements in the Reduction Mode”, Analytical Sciences, 32(2), 135-140, 2016; DOI: 10.2116/analsci.32.135 link	CHEMISTRY, ANALYTICAL	1.228/ 2016	1.228	1.228	1.228	1.228

34	O.I. Covaci, B. Bucur* , L. Galateanu, F. Craciunoiu, G.L. Radu: "Construction, activation and modification of platinum microelectrodes for (bio)sensors development", Digest Journal of Nanomaterials and Biostructures, 6(2), 731-738, 2011 link	MATERIALS SCIENCE, MULTIDISCIPLINARY	1.200/2011	1.2	-	1.2	1.2
35	B. Bucur ; S. Andrescu; J.-L. Marty: "Affinity Methods to Immobilize Acetylcholinesterases for Manufacturing Biosensors", Analytical Letters, 37(8), 1571 – 1588, 2004; DOI: 10.1081/AL-120037588 link	CHEMISTRY, ANALYTICAL	1.165/2004	1.165	1.165	1.165	-
36	M. C. Radulescu, M. P. Bucur, A. Alecu, B. Bucur , G. L. Radu: "Electrochemical Determination of Hydrogen Peroxide Using a Prussian Blue-Copper Modified Platinum Microelectrode", Analytical Letters, 49(13), 2006-2017, 2016; DOI: 10.1080/00032719.2015.1131706 link	CHEMISTRY, ANALYTICAL	1.150/2016	1.15	1.15	-	-
37	A. Chira, B. Bucur* , T. Galaon, G.L. Radu: "Study of the synthesis and environmental removal of 4,4'-dipyridine derivatives", Environmental Engineering and Management Journal, 14(2), 269-275, 2015 link	ENVIRONMENTAL SCIENCES	1.008/2015	1.008	-	1.008	1.008
38	F. Danet, B. Bucur , M.C. Cheregi, M. Badea, S. Serban: "Spectrophotometric determination of organophosphoric insecticides in a FIA system based on AChE inhibition", Analytical Letters, 36(1), 59-73, 2003; DOI: 10.1081/AL-120017263 link	CHEMISTRY, ANALYTICAL	0.929/2003	0.929	0.929	-	-
39	M. P. Bucur, B. Bucur* , C. M. Radulescu, O. I. Covaci, G. L. Radu: "L-cysteine determination based on tyrosinase amperometric biosensors without interferences from thiolic compounds", Analytical Letters, 43(15), 2440-2455, 2010; DOI: 10.1080/00032711003725540 link	CHEMISTRY, ANALYTICAL	0.920/2010	0.92	0.92	0.92	0.92
40	M. P. Dondoi, A. F. Danet, B. Bucur , M. C. Cheregi: "Organophosphorus pesticide determination with a potentiometric biosensor based on acetylcholinesterase", Rev. de Chimie, 56, 4, 327-330, 2005 link	CHEMISTRY, MULTIDISCIPLINARY	0.278/2005	0.278	0.278	-	-
41	B. Bucur* , M. P. Bucur, G. L. Radu, "Improvement of the storage stability for biosensors based on alcohol oxidase immobilized by entrapment in a photopolymerisable matrix", Rev. de Chimie, 58(11), 1145-1148, 2007 link	CHEMISTRY, MULTIDISCIPLINARY	0.261/2007	0.261	0.261	0.261	0.261
42	B. Bucur , M. C. Icardo, J. M. Calatayud: "Spectrophotometric determination of ammonia by an rFLA assembly", Rev. Roum. Chim., 52(2), 101-108, 2006 link	CHEMISTRY, MULTIDISCIPLINARY	0.208/2006	0.208	0.208	0.208	-
43	A. Radu, B. Bucur , M. Cheregi, A. F. Danet, S. Kalinowski: "Spectrometric determination of phenols from waters using an automated flow injection analysis system", Rev. de Chimie, 52, 1-2, 2001 link	CHEMISTRY, MULTIDISCIPLINARY	0.163/2001	0.163	0.163	-	-
TOTAL				101.385	84.937	83.363	62.325

Lista celor 39 articole din Nmax permise si punctajele obtinute pentru îndeplinirea standardelor si criteriilor minimele pentru abilitare.
FI conform Journal Citation Reports™ (Clarivate) din anul 2024

Nr.	Numele autorilor, Titlul articolului, Revista, An, volum, pagini, link	Domeniul WOS	FI/2024	FIC	FICD	FICAP	FICAC
1	B. Bucur, E. Mallat, A. M. Gurban, Y. Gocheva, C. Velasco, J. L. Marty, T. Noguer: "Strategies to develop malic acid biosensors based on malate quinone oxidoreductase (MQO)", Biosensors and Bioelectronics, 21(12), 2290-2297, 2006; DOI: 10.1016/j.bios.2005.10.022 link	CHEMISTRY, ANALYTICAL	10.5	10.5	10.5	10.5	-
2	B. Bucur, A. F. Danet, J.-L. Marty: "Versatile method of cholinesterase immobilisation via affinity bonds using Concanavalin A applied to the construction of a screen-printed biosensor", Biosensors and Bioelectronics, 20(2), 217-225, 2004; DOI: 10.1016/j.bios.2004.02.024 link	CHEMISTRY, ANALYTICAL	10.5	10.5	10.5	10.5	-
3	M. C. Radulescu, M. P. Bucur, B. Bucur*, A. Iosageanu, G. L. Radu: "4-Phenyl isothiocyanate modified electrode based on diazonium electrodeposition for heavy metals detection in pharmaceuticals" Talanta, 295, 128339 (2025). DOI: 10.1016/j.talanta.2025.128339 link	CHEMISTRY, ANALYTICAL	6.1	6.1	6.1	6.1	6.1
4	M. C. Radulescu, M. P. Bucur, B. Bucur*, G. L. Radu: "Ester flavorants detection in foods with a bienzymatic biosensor based on a stable Prussian blue-copper electrodeposited on carbon paper electrode", Talanta. 2019,199, 541-546, DOI: 10.1016/j.talanta.2019.02.094 link	CHEMISTRY, ANALYTICAL	6.1	6.1	6.1	6.1	6.1
5	M.C. Radulescu, M.P. Bucur, B. Bucur*, G.L. Radu: „Biosensor based on inhibition of monoamine oxidases A and B for detection of β-carbolines", Talanta 137, 94-99, 2015; DOI: 10.1016/j.talanta.2015.02.013 link	CHEMISTRY, ANALYTICAL	6.1	6.1	6.1	6.1	6.1
6	M. P. Dondoi, B. Bucur, A. F. Danet, C. N. Toader, L. Barthelmebs, J. L. Marty: "Organophosphorous insecticides extraction and oxidation on column for analysis with a acetylcholinesterase (AChE) biosensor", Analytica Chimica Acta, 578(2), 162-169, 2006; DOI: 10.1016/j.aca.2006.07.002 link	CHEMISTRY, ANALYTICAL	6	6	6	-	-
7	B. Bucur, D. Fournier, A. F. Danet, J.-L. Marty: "Biosensors based on highly sensitive acetylcholinesterases for enhanced carbamate insecticides detection", Analytica Chimica Acta, 562(1), 115-121, 2006; DOI: 10.1016/j.aca.2005.12.060 link	CHEMISTRY, ANALYTICAL	6	6	6	6	-
8	B. Bucur, M. Dondoi, A. F. Danet, J.-L. Marty: "Insecticide identification using a FIA system with biosensors based on various cholinesterases", Analytica Chimica Acta, 539, 195-201, 2005; DOI: 10.1016/j.aca.2005.03.026 link	CHEMISTRY, ANALYTICAL	6	6	6	6	-

9	B. Bucur , A. F. Danet, J.-L. Marty: "Cholinesterase immobilisation on the surface of screen-printed electrodes based on Concanavalin A affinity", <i>Analytica Chimica Acta</i> , 530(1), 1-6, 2005; DOI: 10.1016/j.aca.2004.09.009 link	CHEMISTRY, ANALYTICAL	6	6	6	6	-
10	O. I. Covaci, B. Bucur* , M. P. Bucur, G. L. Radu: "Optimization of acetylcholinesterase immobilization on microelectrodes based on nitrophenyl diazonium for sensitive organophosphate insecticides detection", <i>Microchimica Acta</i> , 169(3), 335-343, 2010; DOI: 10.1007/s00604-010-0336-y link	CHEMISTRY, ANALYTICAL					
11	B. Bucur* : "Technological Barriers in the Use of Electrochemical Microsensors and Microbiosensors for in vivo Analysis of Neurological Relevant Substances", <i>Current Neuropharmacology</i> , 10(3), 197-211, 2012 DOI: 10.2174/157015912803217350 link	NEUROSCIENCES	5.3	5.3	5.3	5.3	5.3
12	M.-P. Bucur, B. Bucur* , G.-L. Radu: "Simple, selective and fast detection of acrylamide based on glutathione S-transferase", <i>RSC Advances</i> , 8, 23931-23936, 2018; DOI: 10.1039/C8RA02252F link	CHEMISTRY, MULTIDISCIPLINARY	5.3	5.3	-	5.3	5.3
13	. Rusen, A. Diacon, A. Mocanu, F. Rizea, B. Bucur* , M. P. Bucur, G.-L. Radu, E. Bacalum, M. Cheregi, V. David: "Synthesis and retention properties of molecularly imprinted polymers for antibiotics containing a 5-nitrofuranyl ring", <i>RSC Advances</i> , 2017, 7, 50844-50852, DOI: 10.1039/c7ra10196a link	CHEMISTRY, MULTIDISCIPLINARY	4.6	4.6	4.6	4.6	4.6
14	M. C. Radulescu, M. P. Bucur, G. L. Radu, B. Bucur* : "Cavitation-Effect-Based Treatments and Extractions for Superior Fruit and Milk Valorisation" <i>Molecules</i> 2023, 28, 4677, DOI: 10.3390/molecules28124677 link	CHEMISTRY, MULTIDISCIPLINARY	4.6	4.6	-	4.6	4.6
15	M. C. Radulescu, M. P. Bucur, B. Bucur* , G. L. Radu: "Acetylcholinesterase and butyrylcholinesterase co-immobilized on a copper containing Prussian blue modified electrode for the broad screening of insecticides" <i>Analytical Bioanalytical Chemistry</i> , 416, 5059-5070 (2024). DOI: 10.1007/s00216-024-05443-1 link	CHEMISTRY, ANALYTICAL	3.8	3.8	3.8	3.8	3.8
16	O. I. Covaci, A. Sassolas, G. A. Alonso, R. Muñoz, G. L. Radu, B. Bucur , J.-L. Marty: "Highly sensitive detection and discrimination of LR and YR microcystins based on protein phosphatases and an artificial neural network", <i>Analytical and Bioanalytical Chemistry</i> , 404, 711-720, 2012, DOI: 10.1007/s00216-012-6092-6 link	CHEMISTRY, ANALYTICAL	3.8	3.8	3.8	-	-
17	M. C. Radulescu, B. Bucur , M. P. Bucur, G. L. Radu: "Biezynatic Biosensor for Rapid Detection of Aspartame by Flow Injection Analysis", <i>Sensors</i> , 14, 1028-1038, 2014 DOI: 10.3390/s140101028 link	CHEMISTRY, ANALYTICAL	3.5	3.5	3.5	-	-
18	M. P. Bucur, B. Bucur* , G. L. Radu: "Critical Evaluation of Acetylthiocholine Iodide and Acetylthiocholine Chloride as Substrates for Amperometric Biosensors	CHEMISTRY, ANALYTICAL	3.5	3.5	3.5	3.5	3.5

	Based on <i>Acetylcholinesterase</i> “, Sensors, 13, 1603-1613, 2013, DOI:10.3390/s130201603 link							
19	G. García-Martínez, E.A. Bustabad, H. Perrot, C. Gabrielli, B. Bucur , M. Lazerges, D. Rose, L. Rodriguez-Pardo, J. Fariña, C. Compère, A.A. Vives: “Development of a Mass Sensitive Quartz Crystal Microbalance (QCM)-Based DNA Biosensor Using a 50 MHz Electronic Oscillator Circuit” Sensors, 11(8), 7656-7664, 2011, DOI:10.3390/s110807656 link		3.5	3.5	3.5	-	-	
20	M. C. Radulescu, A. Chira, M. Radulescu, B. Bucur , M. P. Bucur, G. L. Radu: “Determination of Silver(I) by Differential Pulse Voltammetry Using a Glassy Carbon Electrode Modified with Synthesized N-(2-Aminoethyl)-4,4'-Bipyridine”, Sensors, 10(12), 11340-11351, 2010; DOI: 10.3390/s101211340 link	CHEMISTRY, ANALYTICAL						
21	B. Bucur , C. Purcarea, S. Andreea, A. Vasilescu: “Addressing the selectivity of enzyme biosensors: Solutions and perspectives”, Sensors, 21(9)3038, 2021, DOI: 10.3390/s21093038 link	CHEMISTRY, ANALYTICAL	3.5	3.5	3.5	-	-	
22	M. C. Radulescu, M. P. Bucur, B. Bucur *, G. L. Radu: “Electrochemical Detection Of Heavy Metals In Raw Materials Using a Glassy Carbon Electrode Modified With 4-Aminothiophenol”, Journal of The Electrochemical Society, 169, 106513, 2022, DOI: 10.1149/1945-7111/ac9716 link	ELECTROCHEMISTRY	3.3	3.3	3.3	3.3	3.3	3.3
23	A. Chira, B. Bucur *, G.-L. Radu: “Electrodeposited Organic Layers Formed from Aryl Diazonium Salts for Inhibition of Copper Corrosion”, Materials, 10, 235, 2017; DOI: 10.3390/ma10030235 link	CHEMISTRY, PHYSICAL	3.2	3.2	-	3.2	3.2	3.2
24	M. C. Radulescu, B. Bucur , M. P. Bucur, G. L. Radu: “Quality control method based on quartz crystal microbalance and WGA for flour milled from germinated wheat”, European Food Research and Technology, 229, 833-840, 2009; DOI: 10.1007/s00217-009-1120-2 link	FOOD SCIENCE & TECHNOLOGY	3.2	3.2	-	-	-	
25	B. Bucur *, G. L. Radu, C. N. Toader: “Analysis of methanol-ethanol mixtures from falsified beverages using a dual biosensors amperometric system based on alcohol dehydrogenase and alcohol oxidase”, European Food Research and Technology, 226, 1335-1342, 2008; DOI: 10.1007/s00217-007-0662-4 link	FOOD SCIENCE & TECHNOLOGY	3.2	3.2	-	3.2	3.2	3.2
26	I. Mihai, A. Vezeanu, C. Polonschii, S. David, S. Gáspár, B. Bucur , C. Błazyskowski, S. Sheikh, M. Thompson, A. Vasilescu: “Low-Fouling SPR Detection of Lysozyme and Its Aggregates”, Analytical Methods 2014, 6, 7646-7654 DOI: 10.1039/C4AY01237B link	CHEMISTRY, ANALYTICAL	2.6	2.6	2.6	-	-	-

27	M. P. Bucur, B. Bucur* , E. Bacalum, V. David, G. L. Radu: „Ternary water-organic solvent mixtures used for insecticide SPE extraction and analysis with acetylcholinesterase biosensor”, Analytical Biochemistry, 654, 2022, 114843, DOI: 10.1016/j.ab.2022.114843 link	CHEMISTRY, ANALYTICAL	2.5	2.5	2.5	2.5	2.5	2.5
28	A. Chira, B. Bucur* , M. P. Bucur, G. L. Radu: “Electrode-modified with nanoparticles composed of 4,4'-bipyridine-silver coordination polymer for sensitive determination of Hg(II), Cu(II) and Pb(II)”, New Journal of Chemistry, 38(11), 5641-5646, 2014 DOI: 10.1039/c4nj01245c link	CHEMISTRY, MULTIDISCIPLINARY	2.5	2.5	2.5	2.5	2.5	2.5
29	O. I. Covaci, B. Bucur* , G. L. Radu: “Acrolein detection based on alcohol dehydrogenase inhibition”, International Journal of Environmental Analytical Chemistry, 93(3), 325-334, 2013 DOI:10.1080/03067319.2011.581374 link	CHEMISTRY, ANALYTICAL	2.5	2.5	2.5	2.5	2.5	2.5
30	A. Chira, B. Bucur* , M.C. Radulescu, T. Galaon, G.L. Radu: “Study of Electrochemically Modified Electrode with Synthesized N-benzyl-4,4'-bipyridine with Anti-Fouling Properties for Oxygen and Hydrogen Peroxide Detection”, International Journal of Electrochemical Science, 9, 4493 – 4511, 2014 DOI:10.1016/S1452-3981(23)08108-7 link	ELECTROCHEMISTRY	2.4	2.4	2.4	2.4	2.4	2.4
31	M.P. Bucur, M.C. Radulescu, B. Bucur* , G.L. Radu: „Low-interferences Determination of the Antioxidant Capacity in Fruits Juices Based on Xanthine Oxidase and Mediated Amperometric Measurements in the Reduction Mode”, Analytical Sciences, 32(2), 135-140, 2016; DOI: 10.2116/analsci.32.135 link	CHEMISTRY, ANALYTICAL	2	2	2	2	2	2
32	M. C. Radulescu, M. P. Bucur, B. Bucur* , G. L. Radu: “Rapid Determination of 5-Nitrofurazone Antibiotics in Complex Samples Using a Boron-Doped Diamond Electrode and Differential Pulse Voltammetry”, Analytical Letters, 2021, 54(14), 2363-2375, DOI: 10.1080/00032719.2020.1862140 link	CHEMISTRY, ANALYTICAL	1.8	1.8	1.8	1.8	1.8	1.8
33	M. C. Radulescu, M. P. Bucur, A. Alecu, B. Bucur , G. L. Radu: “Electrochemical Determination of Hydrogen Peroxide Using a Prussian Blue-Copper Modified Platinum Microelectrode”, Analytical Letters, 49(13), 2006-2017, 2016; DOI: 10.1080/00032719.2015.1131706 link	CHEMISTRY, ANALYTICAL	1.8	1.8	1.8	1.8	-	-
34	M. P. Bucur, B. Bucur* , C. M. Radulescu, O. I. Covaci, G. L. Radu: "L-cysteine determination based on tyrosinase amperometric biosensors without interferences from thiolic compounds", Analytical Letters, 43(15), 2440-2455, 2010; DOI: 10.1080/00032711003725540 link	CHEMISTRY, ANALYTICAL	1.8	1.8	1.8	1.8	1.8	1.8
35	B. Bucur ; S. Andreescu; J.-L. Marty: “Affinity Methods to Immobilize Acetylcholinesterases for Manufacturing Biosensors”, Analytical Letters, 37(8), 1571 – 1588, 2004; DOI: 10.1081/AL-120037588 link	CHEMISTRY, ANALYTICAL	1.8	1.8	1.8	1.8	1.8	-



36	F. Danet, B. Bucur , M.C. Cheregi, M. Badea, S. Serban: "Spectrophotometric determination of organophosphoric insecticides in a FLA system based on AChE inhibition", Analytical Letters, 36(1), 59-73, 2003; DOI: 10.1081/AL-120017263 link	CHEMISTRY, ANALYTICAL	1.8	1.8	1.8	-	-
37	O.I. Covaci, B. Bucur* , L. Galateanu, F. Craciunoiu, G.L. Radu: "Construction, activation and modification of platinum microelectrodes for (bio)sensors development", Digest Journal of Nanomaterials and Biostructures, 6(2), 731-738, 2011 link	MATERIALS SCIENCE, MULTIDISCIPLINARY	1.3	1.3	-	1.3	1.3
38	A. Chira, B. Bucur* , G.-L. Radu: "Investigation of the corrosion inhibition properties of new phenyl aldehyde organic layers functionalized with different amino alcohols electrodeposited on copper", Comptes Rendus Chimie, 2021, 24(1), 21-31 DOI: 10.5802/crchim.59 link	CHEMISTRY, MULTIDISCIPLINARY	0.6	0.6	-	0.6	0.6
39	B. Bucur , M. C. Icardo, J. M. Calatayud: "Spectrophotometric determination of ammonia by an rFLA assembly", Rev. Roum. Chim., 52(2), 101-108, 2006 link	CHEMISTRY, MULTIDISCIPLINARY	0.6	0.6	0.6	0.6	-
	TOTAL			151.7	130.3	122	77.1

CS I dr, Bucur Bogdan